2021-22

UNDERGRADUATE Academic Catalog

UNIVERSITY of ARKANSAS FORT SMITH

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 both in your career and in your life. The University of Arkansas - Fort Smith is a place of ideas with a focus on movement. 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 critically and creatively. The programs outlined within these pages reflect the very best of the university, from our dedication to 21st-century scholarship, to combining learning in the classroom with real-world experience, and to academic excellence.

At UAFS the faculty members' commitment to higher learning, research, and technology is paralleled by their enthusiasm for fostering a positive and enlightened learning environment. Our faculty are dedicated to balancing classroom instruction with practical, 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,

Terisa Riley, Ph.D.
Chancellor

CALENDAR 2021-22

SUMMER SEMESTER - 2021	
Classes Begin	(T) June 1
Holiday (Independence Day Observed)	(M) July 5
Last Day of Classes	(R) August 5

FALL SEMESTER - 2021	
Classes Begin	(M) August 23
Holiday (Labor Day)	(M) September 6
Fall Break	(M-T) October 18-19
Thanksgiving Break	(W-U) November 24 - 28
Last Day of Classes	(R) December 9
Reading Day	(F) December 10
Final Exam Week	(S-F) December 11 - 17
Commencement	(S) December 18

SPRING SEMESTER - 2022	
Classes Begin	(M) January 10
Holiday (Martin Luther King, Jr. Day)	(M) January 17
Spring Break	(U-S) March 20-26
Faculty Appreciation Ceremony/Student Research Symposium	(F) April 8
Last Day of Classes	(F) April 29
Final Exam Week	(S-F) April 30 - May 6
Commencement	(S) May 7

SPRING INTERSESSION DOMESTIC/INTERNATIONAL MAYMESTER - 2022	
Classes Begin	(M) May 9
Last Day of Term	(F) May 27

SUMMER SEMESTER - 2022	
Classes Begin	(T) May 31
Holiday (Independence Day)	(M) July 4
Last Day of Classes	(R) August 4

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STUDENT RESPONSIBILITY

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

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

UNIVERSITY OF ARKANSAS - FORT SMITH
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FORT SMITH, AR 72913-3649
WWW.UAFS.EDU

CHARACTER OF THE UNIVERSITY AND ACCREDITATIONS

The UAFS Vision, Mission, Role and Scope, and Values

VISION

UAFS will be a national model for preparing students for workforce mobility through education and professional development while serving as the thought leader in the region for workforce training.

MISSION

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

ROLE AND SCOPE

Founded in 1928, UAFS has grown in stature, role and scope over the years into a singularly distinctive institution. Organized and focused on teaching and learning, UAFS offers multifaceted academic and technical educational opportunities. The university provides these learning opportunities at times and places convenient to students and clients. Programs include single courses of instruction, certificates of proficiency, technical certificates, and associate, bachelor's and master's degrees designed to meet a demonstrated demand of the region. In addition to certificate and degree programs, UAFS provides a wide range of customized, on-site education and training services – both pre- and post-employment – designed to meet the workforce education and retraining needs of business and service organizations.

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

VALUES

UAFS is:

- **Inclusive:** UAFS fosters a welcoming, diverse campus that embraces and promotes inclusion as an integral component to institutional excellence.
- **Student-focused:** UAFS students have countless opportunities to become leaders on campus and in the community with the help of an engaged campus and intimate learning environments led by attentive professors.
- **Committed to Academic Excellence:** UAFS students receive a top-notch education that prepares them for post-graduate success through practical, hands-on learning opportunities spanning the university's spectrum of diverse course offerings.
- **An Economic and Workforce Developer:** UAFS drives economic growth and development in the greater Fort Smith region by educating a workforce, collaborating with organizations and industries, and promoting the arts.
- **A Driver of Creative Economy:** UAFS works with regional businesses and industries to identify the technical, social, and intellectual skillsets that will promote entrepreneurship and the thinking skills of change.
- **Innovative:** UAFS is an educational pioneer that is constantly examining and pursuing new methods of educating students, whether it be the microcosm of a creative classroom with an inspiring professor or a cutting-edge academic program inspired by local and state needs.

ASSESSMENT OF STUDENT LEARNING

UAFS has clear expectations for student learning and is committed to continual assessment as the means to improving learning outcomes. Every academic program specifies educational objectives with outcomes that are measured to determine ways in which learning will be improved. Findings based on assessment objectives are used in curriculum improvement, planning, and resource allocation. A faculty-led, student-learning committee

coordinates assessment activities of the entire campus for the purpose of continuous improvement in learning.

Accreditations

UAFS is accredited by the Higher Learning Commission, and 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 ARTS AND SCIENCES

The music department is an accredited institutional member of the National Association of Schools of Music (NASM). The art department is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

COLLEGE OF BUSINESS AND INDUSTRY

The Bachelor of Business Administration (BBA) and business certificates are accredited by the Association to Advance Collegiate Schools of Business (AACSB).

Technical programs are accredited by the Association of Technology, Management and Applied Engineering (ATMAE). The automotive program is additionally certified by the National Automotive Technicians Education Foundation (NATEF).

COLLEGE OF HEALTH, EDUCATION, AND HUMAN SCIENCES

Nursing programs are approved by the Arkansas State Board of Nursing. The traditional BSN program is 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 (ARC/STSA) through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The dental hygiene program is accredited by the American Dental Association's Commission on Dental Accreditation (CODA). The radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) and the diagnostic medical sonography program is accredited by the Joint Review Committee of Diagnostic Medical Sonography (JRCDMS) through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The Social Work program is accredited by the Council on Social Work Education (CSWE).

Education programs are approved by the Arkansas Department of Education and accredited by the Council for the Accreditation of Educator Preparation (CAEP). The Elementary K6 program is a new program and is aligned with the Elementary Program CAEP, K6, Teacher Excellence and Support System (TESS) and Science of Reading (SoR) standards required by the Arkansas Department of Education. The Middle Childhood Education Program is nationally recognized by the Association for Middle Level Education (AMLE). The Associate of Applied Science in Early Childhood Education and a preschool education credential. Candidates pursuing the Elementary K6 degree can also receive an age 3-4 endorsement to add to their licensure area. All candidates may choose to pursue the Special Education Resource Room endorsement or the Teaching English as a Second Language.

Secondary Education Programs are delivered in their respective colleges in coordination with the School of Education. The Biology with Life/Earth Science Teacher Licensure Program is nationally recognized by the National Science Teachers Association (NSTA). The English with Teacher Licensure Program is nationally recognized by the National Council of Teachers of English (NCTE). The History with Social Studies Teacher Licensure Program is nationally recognized by the National Council for the Social Studies (NCSS). The Mathematics with Teacher Licensure Program is nationally recognized by the National Council of Teachers of Mathematics (NCTM). The Music with Teacher Licensure Program is accredited by National Association of Schools of Music (NASM).

INFORMATION AND NOTIFICATIONS

Concealed Carry Weapons on UAFS Campus

Arkansas Act 562 allows lawful concealed carry weapon (CCW) on public university campuses with certain restrictions. Those who carry on the campus of the University of Arkansas Fort Smith, including on properties the university owns apart from the main campus, are responsible to know Act 562 and other applicable laws. Related university regulations will be enforced thoroughly and fairly.

Those who carry a concealed weapon (as defined under AR Act 562-2017), with the exception of those authorized to carry by virtue of their law enforcement status, must have a current Arkansas Enhanced CCW Endorsement Card on their person while carrying on campus property. Certain activities are exempted and may be designated as gun-free even for those with an enhanced endorsement. With proper notification and signage, intercollegiate athletic events, any grievance or disciplinary hearing last less than nine hours, and storage in a residential facility. There are no other exclusions currently in the law. Persons on UAFS property who are carrying a concealed weapon are required to show their enhanced license to University Police if so requested.

A person on UAFS property who possesses an enhanced license and is in possession of a covered firearm must conceal the weapon. Concealed, under AR Code 5-73-301, means to cover from observation so as to prevent public view. "Storage' is a key concept under this law. Storage in a locked and unattended vehicle is allowed in any publicly owned and maintained lot on campus, if the weapon is otherwise possessed legally. Storage in a residential facility is not allowed.

To report a concern or incident related to Concealed Carry Weapons on campus property, please call University Police at 479-788-7140. The full UAFS Policy and procedure may be found on the University Police website under Resources.

Diversity

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

Equal Opportunity/Affirmative Action Statement

UAFS provides equal employment, admission, and educational opportunities without regard to race, color, age, national origin, religion, disability, veteran's status, sexual orientation, or gender identity. UAFS does not discriminate on the basis of disability in admission, access to, treatment, or employment in its programs and activities.

The university is committed to a policy of equal employment opportunity (EEO) and to a program of affirmative action. Any person who believes he or she has been discriminated against, or is aware of discrimination against another person, is encouraged to the director of human resources/EEO officer at (479) 788-7839.

Federal Program Integrity Compliance

Oklahoma residents and online courses: students who only live full-time in Oklahoma and who enroll in online courses at UAFS should review the catalog for discipline-specific and institutional accreditation(s), and state, federal, and/or tribal licensing agreements, as applicable. Information related to the institution's compliance procedures, including applicable appeals processes, may be found in the most current UAFS catalog. In addition, information for filing complaints with the Higher Learning Commission of the North Central Association, the

Arkansas Department of Higher Education, and the Oklahoma State Regents for Higher Education can be obtained from the Provost's Office at UAFS.

Family Educational Rights and Privacy Act

NOTIFICATION OF STUDENTS' RIGHTS

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

1. The right to inspect and review the student's college education records within 45 days from the day the University receives a request for access. Students should submit to the registrar written requests that identify the record(s) they wish to inspect. The registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the registrar, the registrar shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask UAFS to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If UAFS decides not to amend the record as requested by the student, the student will be notified of the decision and advised of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information (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 (e.g. attorneys, auditors, collection agents, the National Student Clearinghouse, 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.
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
   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 Registrar's Office, on the second floor or the Smith-Pendergraft Campus Center. Directory information at UAFS includes name, address, major field of study, degrees and awards received, participation in officially recognized activities and sports, weight and height of members of athletic teams, telephone listing, electronic mail address, 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.

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

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

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

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:

5. **Individual Responsibility**
   A student who has a chronic communicable disease or who is a carrier of a chronic communicable disease may attend the University and participate in programs and activities whenever, through reasonable accommodation, there is no significant risk of transmission of the disease to others. A student who has a chronic communicable disease or who is a carrier of a chronic communicable disease may be denied admission to, or may be dismissed from, a particular program or course of study whenever such chronic communicable disease presents significant risks of transmission having a direct effect on the student's ability to perform effectively, thereby rendering the student not qualified for the program or course of study. No other person who has a chronic communicable disease, or who is a carrier of a chronic communicable disease, shall be denied the use of the University facilities or service whenever, through reasonable accommodation, there is no significant risk of transmission of the disease to others. Willful or careless exposure of other persons by an individual who has or is a carrier of a chronic communicable disease is a reckless, inconsiderate, negligent act which endangers everyone. If it is determined that a person has or is a carrier of a chronic communicable disease and that person has not taken adequate precautions to prevent transmission of the disease to others, then that person will be subject to dismissal from the University.
6. **Reporting Procedures**
   Students shall notify the vice chancellor for student affairs if they have, or are carriers of, chronic communicable diseases. Such notification allows the University to evaluate each individual case and take the necessary precautions to minimize the risks of transmission to others. Students who suspect they are suffering from TB or other chronic communicable diseases must contact their doctor immediately. Local county health departments will be informed of all confirmed TB cases. Additionally, students are required to notify the vice chancellor for student affairs if TB is confirmed. The campus response to reported TB cases on campus will be fully coordinated with the Sebastian County Health Department. Students and faculty who shared classroom or office space with the individual will be notified. Confidentiality of the student will be protected. International students, as a part of the application for admission process, are required to obtain a medical doctor's certification that no symptoms of the disease are present. Following enrollment and in accordance with ACT 96 of 1913, international students are required to do additional testing to confirm the lack of TB symptoms. A confidential appointment with the vice chancellor for student affairs may be arranged by calling (479) 788-7310.

State Authorization Reciprocity Agreement

UAFS is approved by the Arkansas Department of Higher Education (ADHE) to participate in the National Council for State Authorization Reciprocity Agreement (NC-SARA) to offer online programs and courses to out-of-state students. NC-SARA provides states a mechanism for monitoring the quality of online programs delivered by out-of-state colleges and universities to its citizens. Institutions that are members of SARA are authorized to provide online education to students from all SARA member states.

SARA applies solely to distance education activity conducted across state lines. It does not apply to distance education activity of an institution within its home state or to on-ground campuses in any state.

The University of Arkansas at Fort Smith is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. Distance education courses and programs are approved by the Arkansas Department of Higher Education.

UAFS is committed to ensuring that its distance learning programs and courses are intellectually stimulating and professionally rewarding. Online classes are taught by qualified faculty who are highly trained in using the Blackboard LMS for course development and delivery.

COMPLAINT/GRIEVANCE PROCEDURES

Complaints regarding student grades or student conduct violations are governed entirely by UAFS policy and the laws of the state of Arkansas. The UAFS Academic Grievance Process is outlined in this catalog and the UAFS Student Handbook.

Please note that students who wish to file a complaint relating to an online course or program offered by UAFS must first go through the UAFS procedures for resolution of grievances. If, after exhausting the institutional process, a student feels a complaint has not been adequately addressed, the student may file a complaint with the Arkansas SARA portal, in this case the Arkansas Department of Higher Education (ICAC@adhe.edu).

A student wishing to file a complaint regarding an online course or program should complete the online form found on the UAFS SARA webpage. The complainant will be contacted within five (5) business days after the complaint is received.

Student Conduct

UAFS ALCOHOL POLICY

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

UAFS DRUG POLICY

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

ALCOHOL/DRUG ABUSE

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

UAFS has implemented the following policy regarding substance abuse:

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

CODE OF CONDUCT FOR STUDENTS

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

TOBACCO-FREE CAMPUS POLICY

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

Policy for Faculty, Staff, Students, and Visitors

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

CORRECTIVE ACTIONS (STUDENTS)

First Level: Warning

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

Second Level: Written Warning

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

Third Level: Administrative Sanctions including Suspension from the University

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

Due Process – Appeal of Action

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

Student Responsibilities for Copyrighted Materials

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

Use of commercial (for-profit) copyshops may not relieve an individual of liability for infringement. It would depend on:

- whether the copying was fair use, and
- whether the copyshop pays royalties.

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

Title IX

Title IX, part of the Education Amendments of 1972, is a federal law that prohibits sex discrimination in education. The Vice Chancellor for Student Affairs has primary responsibility for compliance with Title IX. Any case involving allegations of sexual harassment, other forms of discrimination based on protected status, sexual assault, sexual violence, sexual exploitation, stalking, domestic abuse, pregnancy, relationship violence, or retaliation related to any of the above will be handled in accordance with the procedures outlined in the University of Arkansas - Fort Smith Complaint/Grievance Procedure. Complaints made concerning any member of the UAFS community, whether student, employee, or guest, will be addressed by the Title IX office. Any concerns, questions or incidents regarding Title IX should be directed to the UAFS Title IX coordinator and Vice Chancellor for Student Affairs, Dr. Lee Krehbiel, at (479) 788-7310. Reports may also be made to Human Resources (479 788-7080 or University Police (479) 788-7140. UAFS will respond to complaints in a manner that maintains or restores a safe and productive learning environment, while looking into the complaint in a prompt, thorough, and impartial fashion.

ADMISSIONS

UAFS Admission Policy

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

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

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

1. Students admitted must demonstrate satisfactory progress and the capability and capacity to complete college-level work.
2. All admission material must be received by the published application deadline.
3. No person shall ever be denied admission based on race, color, religion, gender, age, national origin, sexual orientation, veteran's status, gender identity, or otherwise qualified students with a disability.
4. Admission may be denied in those cases when a thorough evaluation process determines that a prospective student cannot achieve satisfactory work in college or developmental coursework.
5. Admission to UAFS does not guarantee admission to a particular degree or certificate program.
6. Falsifying any part of the application for admission can prevent a student from receiving federal financial aid and/or being admitted to UAFS.

UAFS admissions staff adheres to the National Association for College Admission Counseling guide to ethical practice in college admission which require transparency in information, marketing and presenting options. The guidelines also disallows financial benefits or bonuses being offered or renumerated to Admissions Advisors for meeting enrollment quotas.

DEFERMENT OF ADMISSIONS

A student who is granted admission to UAFS is eligible to enroll for one academic year (defined as one spring semester, one fall semester, and one summer semester). A student may request to defer their admission by contacting the Admissions Office prior to the Friday before the start of the semester they wish to attend. Students will be required to submit official transcripts of any course work completed after the time of their application. An admission decision can be affected by any new or updated transcripts submitted.

Admissions Requirements and Procedures

FIRST-TIME ENTERING STUDENTS

In order to achieve automatic, full admission with no further review, prospective first-time entering freshmen applicants must have ONE of the following:

- Composite ACT score of 19 with developmental minimums met in each section (13 Math, 15 Reading, 15 Writing).
- Cumulative high school GPA of 3.0 or higher.
- High school graduation placement in the top 50 percent of the applicant's graduating high school class.

Required minimum admissions standards for new, first-time entering freshmen require BOTH of the following:

- Composite ACT score of 15 with minimum developmental level scores in each subsection (13 Math, 15 Reading, 15 Writing) or Accuplacer equivalent.
- Cumulative high school GPA of 2.25 or higher.

UAFS will also consider comparable scores on tests such as the SAT.

Beginning freshmen must submit the following information to the Admissions Office prior to admission:

1. A completed application for admission.
2. An official transcript of high school grades, credits, and date of graduation, or GED scores. An official college transcript is required for all college courses completed while attending high school.
3. Official ACT, SAT, Accuplacer, or other approved testing placement scores. ACT, SAT, Accuplacer, or other approved placement scores may be used for admissions if testing was completed in the five years prior to beginning of the term student will enter.
4. Selective service: all male applicants aged 18 - 26 are required to be registered with, or exempt from, the Selective Service System in accordance with the Military Selective Service Act, 50 U.S.C App. 451 et seq., as specified in Act 228 of the 1997 Acts of the Arkansas General Assembly.

All students entering UAFS begin with Admissions. Additionally, some colleges may have specific admission requirements.

THE MANE EVENT NEW STUDENT ORIENTATION

All first-time entering students must attend a MANE Event New Student Orientation to learn about the University. Students will schedule a separate one-on-one advising appointment with an advisor to register for their first semester of classes.

UNCONDITIONAL AND CONDITIONAL ENROLLMENT

Students who graduate from high school or receive a GED must demonstrate placement requirements to be unconditionally accepted to the University. Additionally, Arkansas Code Annotated §6-60-208 requires students graduating from high school in 2002 or after to have completed successfully the core curriculum with a 2.00 (on a 4.00 scale) GPA for unconditional admission. The core curriculum from high school consists of:

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

Students may be admitted conditionally if they meet the University's minimum placement requirements. Conditional admission requires demonstration of satisfactory progress for continued enrollment. Students will be required to complete specific requirements for their degree and any required developmental coursework with a cumulative 2.0 GPA within the first 30 credit hours to move to unconditional status. If they do not meet the requirements, they will be placed on probation for conditional admissions status and monitored for their success.

Students who score between the minimal state levels in reading placement may be considered for admission under conditional-prep status. Students admitted under this status will have certain conditions placed on their enrollment and will be required to complete specific requirements for their degree and any required developmental coursework with a cumulative 2.0 GPA within the first 30 credit hours.

TRANSFER STUDENTS

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

1. A completed application for admission. Falsifying any part of the Application for Admission and/or failing to report previous college work can prevent a student from receiving federal financial aid and/or being admitted to the University.
2. Proof of immunizations (see *Immunization Record*).
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 may be required during the admission process.
4. Students who have fewer than 13 college credit hours are required to submit official high school transcripts or GED scores.
5. College Transcripts:
    a. Students seeking a degree from UAFS must provide official transcripts from all colleges/universities attended (Paper transcripts must be sent directly to the Registrar's Office by the issuing institution or submitted to the Registrar's Office in an official, sealed, school envelope. Electronic transcripts must be transmitted from a secure site formally linked to the sending institution). Official transcripts must be received by the admission deadline prior to the beginning of the semester 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 Registrar's 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.

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 Registrar's 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 course descriptions as they will be required for transfer work to be articulated.

Students must have a 2.00 (on a 4.00 scale) cumulative GPA on all previous coursework to be eligible for admission to UAFS. Students whose cumulative GPA falls below a 2.0 will be denied admission and given the option to appeal. Transfer students academically suspended from their last institution will not be allowed to enroll at UAFS until they provide documentation indicating that they are eligible for re-enrollment at that institution.

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.

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

ACCEPTANCE OF TRANSFER CREDITS

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

1. Transfer credit will be officially evaluated after a completed Application for Admission and final official transcripts have been received. Official transcripts must include complete records of the courses taken and must be submitted to the Registrar's 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 Registrar's 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 institutions are used in the calculation of University graduation honors.
5. When a course is taken at another institution and is repeated, whether at the other institution or UAFS, the highest grade is included for graduation purposes. In either case, the grade received at this institution is included in the student's GPA.
6. Transfer credit is awarded for courses in which a grade of C or higher has been earned. However, six hours in which a grade of D has been earned may be considered for transfer under the following circumstances: a student must appeal for an exception to the policy in writing to the Provost prior to the first term. A grade of D will not be accepted for any required general education course and many majors will not accept a grade of D for any coursework. A grade of D may be used for an elective course if the exception is granted. Credit will not be granted for remedial coursework.
7. The State Minimum Core Act 98 of 1989 requires each institution of higher learning in Arkansas to identify a minimum core of general education courses that shall be fully transferable between state-supported institutions. The required 35 hours of credit will transfer and apply toward the degree.
8. The maximum number of hours transferable to a baccalaureate degree is 68 semester hours of lower-level (1000-2000) coursework. The only exceptions are the bachelor of applied science and bachelor of science in organizational leadership; contact the department head of both programs for more information. The number of upper-division transferable coursework will vary by college and program.
9. Transfer credit is posted at the level at which it is earned.
10. The Roger Phillips Transfer Policy Act of 2009 provides for the seamless transfer of lower level credits for those students who have completed an associate of arts (AA), associate of arts in teaching (AAT), or associate of science (AS) at an Arkansas public institution of higher education and transfers to a baccalaureate degree program at a four-year institution. Accordingly, UAFS will accept into junior status any student who has completed an AA, AAT, or AS. Additional lower-level general education courses cannot be required for a transfer student with a completed AA, AS, or AT, unless the course(s) meets one of the following exceptions:

    a. The course(s) is required of the student's major.

b. The course(s) is a prerequisite for a course required of the student's major.

c. The course(s) is required by an accrediting and/or licensure body.

d. The student earned a grade of D or F in the transfer course.

RETURNING STUDENTS

Students who have previously attended UAFS past the census day of any semester post-high school graduation are considered returning students. Students returning after a full academic year in absence must submit the following documents:

1. A completed application for admission.
2. Proof of immunizations(see *Immunization Record*).
3. Official transcripts from all colleges/universities attended (sent directly to the Registrar's Office or submitted in an official, sealed school envelope). Students who have not attended in the calendar year prior to the term of readmission may be required to submit official transcripts from all institutions attended.
4. Students that do not have placement in reading, English and mathematics through previous coursework will be required to provide current ACT, SAT, Accuplacer or other approved placement scores. Any required placement testing must be completed prior to registration.

CONCURRENT/DUAL ENROLLMENT OF HIGH SCHOOL STUDENTS

In accordance with Act 1097 of 1991, a student enrolled in a secondary school or who is home schooled, may enroll at UAFS if he or she has successfully completed the eighth grade and demonstrates an ability to benefit from college-level coursework. Admission requirements vary for UAFS concurrent enrollment programs In general, prospective students must submit the documentation noted below; contact each program for specific requirements.

1. A completed application for admission.
2. A current high school transcript.
3. A *Participation Agreement* form, submitted each term, signed by the student, his or her parents, and the school principal (or designee), stating that the student has approval to enroll. Students enrolling for summer terms do not have to obtain permission of the high school designee to take courses.
4. ACT, SAT, Accuplacer, or other approved testing scores indicating placement into college-level courses. Policies and guidelines for the concurrent/dual admission program are available from the Admissions Office. Students must meet the requirements stated in the policies.
5. Proof of immunization against measles, mumps, and rubella. Students may be admitted but may not enroll until proof of immunity is demonstrated. Immunity can be shown by providing a serological test confirming immunity or having received two doses of measles, two doses of rubella, and two doses of mumps vaccine (see *Immunization Record*).

Conditions for concurrent enrollment are as follows:

1. Students may not enroll in developmental coursework.
2. Students will not be eligible for federal, state, or institutional financial aid.
3. Students attending UAFS under this policy must maintain a 2.00 (on a 4.00 scale) GPA each semester. Students failing to achieve the required GPA will be denied further enrollment until such time as they qualify under first-time entering admission requirements.
4. 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. 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 affixed) 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. This fluency 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 fluency, 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 and visa.
4. All international students are required to obtain medical insurance before enrolling in classes at UAFS. This can be purchased through UAFS or a private insurance company. Insurance requirements according to the Affordable Care Act. Please contact the Office of International Relations for more details before purchasing insurance
5. Complete the *Declaration and Confirmation of Financial Resources* Form and provide evidence that sufficient funds are available to meet University costs and personal living expenses. UAFS requires that a student must be prepared to finance his or her stay in the United States without help from the University.

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

Please contact the Office of International Relations if transferring from another institution in the United States.

NON-DEGREE SEEKING STUDENTS

This category is for students who are taking credits for personal enrichment. Students in this category are not eligible for financial aid..

Post-baccalaureate non-degree seeking students are students who have completed a baccalaureate or equivalent degree or higher from a regionally accredited institution and would like to continue taking courses for personal or professional enrichment. These students will be admitted unconditionally upon receipt of official transcripts.

Students are required to have placement in reading, English, and mathematics through ACT, SAT, Accuplacer, other approved testing scores, or previous coursework. Students who do not meet the minimum required placement score in reading, English or mathematics will be admitted as a non-degree seeking student. Non-degree seeking students are not eligible for federal or state financial aid and are limited to a maximum of 15 credit hours. Non-degree seeking students should meet with an advisor in the ROAR Advising Center to discuss other requirements, possible eligibility for certificates, and further testing options.

SIXTY-PLUS TUITION WAIVER

Arkansas residents who are 60 years old or over are eligible for the Sixty-Plus Tuition Waiver; eligible students must complete the *Sixty-Plus Tuition Waiver* form each semester.. The waiver covers per-credit-hour tuition and fee charges, but the student will still be responsible for fees charged on a per-semester basis. Eligible students who are non-degree seeking or taking courses for personal enrichment must complete an application for admission and provide documentation of their age. Proof of immunization and high school transcripts are not required. Each college/department will determine if placement testing and/or proof of completion of required prerequisites are required for a particular course. An unofficial transcript will be required if the student needs to demonstrate successful completion of prerequisites.

Students who are 60 or over and wish to pursue a degree are eligible for the Sixty-Plus Tuition Waiver, but are required to meet the full University requirements for admission.

Qualifying students who wish to receive the Sixty-Plus Tuition Waiver must wait to enroll in any credit course until two days prior to the beginning of the semester and submit the completed *Sixty-Plus Tuition Waiver* form to the Financial Aid office at the time of registration. Students who choose to enroll in a course before that date or audit a course(s) are required to pay the full amount of tuition and fees.

IMMUNIZATION RECORD

The Arkansas Department of Health (ADH) pursuant to Act 141 of 1987 requires all full-time students and students housed on campus to provide the University with proof of immunization against measles, mumps, and rubella (MMR). Proof of immunization, immunity, a medical or non-medical exemption, or birth before 1957, must be provided before being enrolled in

courses. The following are acceptable proof: immunization record from another educational institution, a licensed medical doctor, or an authorized public health representative, or military service showing the dates MMR shots were given.

In lieu of receiving vaccine, immunity may be shown by providing documented evidence of appropriate serological testing which must be submitted by the student to the Arkansas Department of Health, Immunization Section, 4815 W. Markham, Mail Slot 48, Little Rock, AR 72205. The ADH will send a letter to the student advising if immunity has been granted and it is the student's responsibility to bring the letter to the Registrar's Office.

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

Proof of a birth date **prior** to January 1, 1957, will be accepted in lieu of receiving vaccine. Students must provide a copy of birth certificate, current driver's license, or other state or federal issued ID showing their date of birth to the Registrar's Office.

A hold will be placed on a student's record until the required documents are received.

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

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

APPEAL OF ADMISSION DECISION

If a student is denied admission or would like to appeal the acceptance type, and feels he or she has additional information to share in the evaluation process, the student may submit an admissions appeal request via email along with updated materials to admissions@uafs.edu. The committee will review the merits of the situation and make a determination on whether to grant the admissions appeal.

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

PLACEMENT POLICY

In accordance with Arkansas Code Annotated §6-61-110, first-time entering students will be placed into reading, writing, and mathematics courses according to placement scores. Reading placement may be determined by the successful completion of a reading intensive course. Non-letter grades, such as CR (credit) and P (passing), may be used for placement in all areas of developmental coursework. The purpose of the placement test is to identify existing skills and knowledge, thereby placing students in courses in which they may reasonably expect to achieve academic success. Students may be required to test, depending on specific circumstances, as determined by an advisor.

The primary methods of assessment are the ACT, SAT, or the Accuplacer. Students may be required to take additional testing. Test scores must be current (completed five 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.

Under Arkansas Code Ann. § 6-60-215, UAFS may classify non U.S. citizens as in-state for the purposes of tuition and fees who provide documentation to satisfy the requirements of 1, 2, or 3 listed below:

1. Student has immigrated from the Republic of the Marshall Islands and has verified legal presence in the State of Arkansas.
2. Student or parent holds a Federal Form I-766 United States Citizenship and Immigration Services issued Employment Authorization Document, known as a work permit.
3. Student has requested and been approved for an exemption under Deferred Action for Childhood Arrivals. Exemption must be current.

If the student is able to provide proper documentation to establish he/she meets one of the above requirements, the students must also provide documentation to satisfy the requirements of both 4 and 5 listed below.

4. Student must be a graduate of an Arkansas public or private high school or must have earned an Arkansas high school equivalency.

5. Student must have resided in the State of Arkansas for at least three years at the time of application for admission.

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 have been convicted of a Clery Act felony, convicted of a violent 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.

UNDERGRADUATE TUITION AND FEES

Financial Aid Information

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

Payment of Tuition and Fees

Students must pay their tuition and fees in full or make definite payment arrangements through the Online Business Center by the posted payment deadline. This applies to all students, including recipients of scholarships, veterans benefits, and other types of aid. Students may be removed from their courses if full payment and/or arrangements (financial aid or payment plan) has not been made by the deadline.

Tuition and fee charges do not include the cost of textbooks and supplies. All other charges, such as parking violations, payment for lost instructional equipment, and charges for overdue or lost materials checked out of Boreham Library, must be paid prior to graduation, re-enrollment, or the sending of transcripts. Personal checks are accepted for payment of accounts, and a charge of $30 is assessed for returned checks. Students whose checks are returned by the bank are subject to administrative withdrawal.

Paying tuition and fees at UAFS may qualify students or their parents for tax credits. Contact a tax professional for more information.

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

Refund of Undergraduate Tuition

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

DATE OF OFFICIAL WITHDRAWAL	FALL/SPRING SEMESTER
Prior to the start of classes	100%
First week of the semester	100%
Second week of the semester through 11th day of classes (census date)	50%
After 11th day of classes	None

DATE OF OFFICIAL WITHDRAWAL	SUMMER I AND SUMMER II
Prior to the start of classes	100%
First two days of the term	100%
Third through fifth day of classes (census date)	50%
After fifth day	None

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

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

Students receiving 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 disbursed exceeds the amount of aid earned as of the date of withdrawal, the student will be required to return some portion of the aid received.

Undergraduate Residency Determination

Students are classified as one of the following:

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

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

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

RESIDENCY STATUS OF VETERANS AND MILITARY PERSONNEL AND THEIR SPOUSES AND DEPENDENTS

Any student who meets any of the following criteria shall be classified as in-state, regardless of his or her residence:

1. A veteran who was honorably discharged from the U.S armed forces.
2. A dependant or spouse of a veteran who meets criteria above. For the purpose of this policy, dependents are unmarried children who are legal dependents of the military person as defined by the IRS.
3. A member of the armed forces.
4. A spouse of a member of the armed forces.
5. A Reserve Officers' Training Corps (ROTC) cadet who has an executed armed forces service contract.
6. A dependant of a member of the active duty armed forces, when the member of the armed forces:
   a. is stationed in Arkansas pursuant to permanent change of station military orders;
   b. is continuously domiciled in Arkansas for at least six consecutive months before entering active military service and who maintains Arkansas as the permanent home of record while on active duty, or
   c. demonstrates a change of domicile from another state to Arkansas at least 12 months prior to separation, discharge, or retirement from active duty. This provision is forfeited if the military person does not return to Arkansas with 36 months after separation, discharge, or retirement from active duty.
7. A veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38, United States Code, who lives in Arkansas while attending a school located in Arkansas (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.
8. Anyone using transferred Post-9/11 GI Bill® benefits (38 U.S.C. § 3319) who lives in Arkansas while attending a school located in Arkansas (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
9. Anyone described in 7 and 8 above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described in 7 and 8 above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.
10. Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in Arkansas while attending a school located in Arkansas (regardless of his/her formal State of residence).
11. Anyone using transferred Post-9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in Arkansas while attending a school located in Arkansas (regardless of his/her formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.
12. A member of the armed forces or "covered individual" as identified in Section 702 of the Veterans Access, Choice and Accountability Act of 2014.
13. Any individual using educational assistance under chapter 31, Vocational Rehabilitation and Employment (VR&E).

The policy shall be read to be amended as necessary for compliance with the requirements of 38 U.S.C. 3679, as amended, and Ark. Code Ann. § 6-60-205.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at http://www.benefits.va.gov/gibill.

Undergraduate Tuition and Fees

Tuition and any and all fees may be increased or decreased as deemed necessary by the University of Arkansas Board of Trustees. The tuition and fees referenced below are for the Fall 2021 semester.

TUITION FOR CREDIT COURSES	CHARGE PER CREDIT HOUR	FULL TIME (15 HOURS)
In-state and *Border States	$171	$2,565
Out-of-state	$474	$7,110
International students	$497	$7,455

Border-state tuition is $474 per credit hour with a discount of $303 per credit hour for a net charge per credit hour of $171 the same rate as in-state residents.

MANDATORY FEES	CHARGE PER CREDIT HOUR	FULL TIME (15 HOURS)
Activity	$15	$225
Athletic	$18	$270
Technology	$15.50	$232.50
Campus Center	$2	$30
Library	$3.50	$52.50
Facilities	$4.25	$63.75
Recreation and Wellness Center	$5	$75
Infrastructure	$5.50	$82.50

CHARGE PER SEMESTER/TERM	
Student Health	$30
Registration	$31
Fitness Center Access	$12

OTHER FEES	
New Student Orientation	$35
New Student Orientation (per parent/guest)	$25
New Student Orientation Housing (one night)	$70
International Student Application	$50
International Student Orientation	$75
Study Abroad/Exchange Student Application	$50
Late Rent Payment	$25
Cub Camp	$80
Art Department supply fee	$30 per credit hour
College technology fee	$5 per credit hour
College facility fee	$3 per credit hour
Fitness Center Course	$25 per course
Nursing (BSN and PN), imaging sciences, radiography, and dental hygiene lab fee	$25 per clinical course
Student teacher internship	$225 per course
Student teacher (out of area) internship placement	$450 per course
Private music instruction	$40 per credit hour
Distance education course	$50 per credit hour
Child development program (Two-hour course)	$50 per course
Child development program (Four-hour course)	$100 per course
College of Health, Education, and Human Sciences Assessment Fees	
ExamSoft - per semester (excludes LPN and graduate)*	$36.50
LPN program	$150 per LPN course
BSN program (starting 3rd semester)	$150 per semester
Surgical Technology Program Assessment (charged in final semester of program)	Member: $190; Non-members: $290
Health Sciences Program (excludes LPN and BSN programs)	$25 per credit hour
Health Sciences Program - LPN and BSN only	$35 per credit hour

OTHER FEES	
Surgical Technology Lab Fee	$35 per lab course
Surgical Technology AST Gold Bundle Course Fee (one-time fee - SUR 1526)	$240
Surgical Technology Trajecsys Course Fee (one-time fee - SUR 153A)	$100
School of Education laboratory fee	$20
School of Education Professional Development course fee	$20
Applied Science laboratory fee	$25
Sciences laboratory fee	$35 per lab course
Adult Degree Completion Program transcription fee	$40 per credit hour
STEM Mobile Computing fee	$54 per semester
STEM Mobile Computing Support fee	$22.50 per semester
IBM Blockchain Badge Fee (one-time fee)	$150
IBM Cybersecurity Badge fee (one-time fee)	$150

TESTING FEES	
Business Major Fields Achievement Test (MFAT)	$25 per test
Challenge Exam	$20 per credit hour
Accuplacer Voucher Test	$35
Accuplacer retest	$5 per test
Accuplacer Concurrent	$25 per test
CLEP administrative fee - student only	$25 per test
CLEP administrative fee - non-student	$40 per test
CLEP test (payable to College Board)	$89 per test
CLEP written essay (payable to College Board)	$10 per test
Correspondence test	$30 per test
DSST test	$100 per test
DSST proctor fee	$25 per test
DSST proctor fee - non-student only	$40 per test
Foreign Language Testing fee	$10 per test
Miller Analogies Test (MAT)	$65 per test
NLN PAX PN	$35
NOCTI Test and administrative fee	$52 per test
PSB Test	$25 per test
Test of English as a Foreign Language (TOEFL) Test	$50 per test
Writing Proficiency Test (WPT) - paid to LTI	$75
Computerized Oral Proficiency Interview (OPIc) - paid to LTI	$75

OTHER CHARGES AS APPLICABLE	
Diploma replacement	$20
ID replacement	$20
Installment plan service	
two payment plan (per semester)	$25
three payment plan (per semester)	$25
four payment plan (per semester)	$25
five payment plan (per semester	$25
Installment plan late payment	$25
Late payment fee (per semester)	$50
Late Payment Fee (payments under installment plan)	$10
Library fines	
Lost item processing (+ replacement cost)	$10
Inter-library loan fine - UAFS students only (+ charges from loaning library)	$1
Graduate program admission application fee	$50
Graduate graduation application fee	$50
Returned check fee	$30

OTHER CHARGES AS APPLICABLE	
Store Front credit card (per transaction)	$2

PLACEMENT FILE FEES	
Additional copies - pickup	$2
Additional copies - mailed	$3

VEHICLE/TRAFFIC FEES AND FINES	
Parking fee (hangtag -per year)	$100
Parking fee (sticker -per year)	$80
Reserved parking fee (per year)	$120
Motorcycle parking fee (per year)	$25
Failure to register vehicle violation	$25
Handicapped parking violation (per occurrence)	$200
Moving violation (per occurrence)	$50
Parking violation (per occurrence)	$25

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

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 finaid@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 https://studentaid.gov/h/apply-for-aid/fafsa. 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.

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-year, first-time undergraduate 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 Recipients* 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

FEDERAL 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 federal 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 federal 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 or the last day of attendance, whichever occurs first, to qualify.

Students who do not meet the citizenship or eligible non-citizenship requirements as set forth by the U.S. Department of Education do not qualify for federal financial aid.

TYPES OF STUDENT LOANS

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

- *Federal Direct Subsidized Loans:* the government pays any interest accrued while the student remains enrolled at least half-time. A student must demonstrate financial need, as a result of the FAFSA, to receive a federal Direct Subsidized Loan.
- *Federal Direct Unsubsidized Loans:* interest is accrued during all periods, including school enrollment and during grace and deferment periods.
- *Federal Direct PLUS Loans:* unsubsidized loans for graduate students and parents of dependent students. PLUS loans help pay for educational expenses up to the cost of attendance minus all other financial assistance. Interest begins accruing with the initial disbursement.
- *Federal Direct Consolidation Loans:* borrowers may consolidate any federal loans offered through different federal loan programs or held by different servicers into a single loan.

NOTE: Students and parents should visit www.studentaid.gov for more information on any federal loan program. The information included here is only a summary.

APPLYING FOR STUDENT OR PARENT LOANS

Students who are interested in applying for federal student loans must begin the process by completing the FAFSA. After the FAFSA has been processed by the Financial Aid Office, the student will be notified of the amounts for which they qualify.

The award notification will contain instructions on using My.UAFS to accept, decline, or reduce the amount of their loans. First-year, first-time borrowers are required to complete entrance counseling and sign a Master Promissory Note (MPN) at www.studentaid.gov. Please keep in mind that loan funds cannot be disbursed without confirmation of the Entrance Counseling or MPN.

Parents of dependent students may apply for the Federal PLUS Loan by visiting www.studentaid.gov and completing the application for the Parent PLUS Loan. This is a separate application; however, the FAFSA must be completed first.

LOAN CONSUMER INFORMATION

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

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

Website: https://studentaid.gov/help-center/answers/article/how-to-contact-ombudsman-group

Phone: (877) 557-2575

Fax: (606) 396-4821

Mail: U.S. Department of Education
FSA Ombudsman Group
P.O. Box 1843
Monticello, KY 42633

SATISFACTORY ACADEMIC PROGRESS (SAP) FOR FINANCIAL AID RECIPIENTS

Students receiving federal financial aid are required to meet three separate requirements to maintain financial aid eligibility at UAFS. These requirements are NOT related to Academic Standing.

First, students are required to maintain a minimum 2.0 grade point average. Second, students are required to complete at least 67% of all credit hours attempted. Attempted hours include repeat hours, incomplete hours, academic clemency/bankruptcy hours, transfer hours, concurrent (high school) enrollment, and courses with a grade of F regardless of whether a student received financial aid. Third, students must complete their degree within 150% of the credit hours allowed for their primary declared degree. Failure to meet these requirements will result in the loss of financial aid eligibility. These requirements are summarized below:

- Minimum GPA of 2.0
- 67% course completion rate, which is calculated by dividing the number of completed credit hours (includes courses with grades of A, B, C, or D and only the latest repeated course with grades of A, B, C, or D by the total number of attempted credit hours.
- Students have a maximum time frame to attempt 150% of the credit hours required to complete their published degree plan. Example: A bachelor's degree requires 120 hours, so 120 x 150% = 180 hours allowed.

For the complete Satisfactory Academic Progress (SAP) policy, please visit the financial aid website.

FINANCIAL AID WARNING

Students who do not meet the minimum GPA and/or 67% completion rate will be placed on a financial aid warning for their next term of enrollment. Students are still eligible to receive financial aid while on financial aid warning; however, students must meet all requirements listed in the *Satisfactory Academic Progress (SAP) for Financial Aid Recipients* by the end of their warning semester, when progress is checked.

FINANCIAL AID SUSPENSION

A student who has failed to make SAP while on financial aid warning or exceeds the maximum time frame allowed will be placed on financial aid suspension. Financial aid suspension means the student is not eligible to receive federal or state financial aid. The student may only regain eligibility by meeting the minimum standards or by an approved appeal.

FINANCIAL AID APPEAL

If extenuating circumstances exist that hindered the student's success, he or she can submit an appeal. If the financial aid appeal is approved, the student will be placed on an academic plan and may continue to receive financial aid as long as conditions of the academic plan are met. The *Financial Aid Appeal* form is available online and can be printed from the financial aid website.

STUDENT EMPLOYMENT

Numerous on-campus jobs are available to students attending UAFS and are coordinated through the UAFS Financial Aid Office. Students must complete the UAFS Student Employment Application to be considered for on-campus employment. Students can be employed in either of two programs listed as follows:

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

FINANCIAL AID FOR TRANSFER STUDENTS

According to federal regulations, any student applying for federal financial aid who is transferring from another school during the academic year must have their FAFSA information sent to UAFS. To make this change, go to https://studentaid.gov/h/apply-for-aid/fafsa to add UAFS' federal school code, 001110. Additionally, all coursework accepted from previous institutions will be used in the determination of satisfactory academic progress. An official transcript from each institution attended must be submitted to the Registrar's Office. The Financial Aid Office will determine if the student has any remaining eligibility for federal or state programs.

MILITARY TUITION ASSISTANCE, ACTIVE DUTY, AND ARKANSAS NATIONAL GUARD

UAFS participates in Federal Tuition Assistance programs for all branches of service. Eligible students should contact the education office at their base to apply for tuition assistance. The tuition assistance authorization form should be provided each semester to the VA Coordinator in Financial Aid.

The Arkansas Air and Army National Guard has instituted a new National Guard Tuition Waiver (NTGW) program effective fall 2017, as established by Act 471 and located in Arkansas Code Section 6-61-214, allowing all eligible National Guard soldiers to attend a state-supported institution of higher education tuition-free. This benefit will offer tuition assistance for a maximum of 120 credit hours. The NGTW can only be used to obtain an undergraduate degree, and cannot be used by soldiers who have previously been awarded a bachelor's degree. The NGTW is a last payer program and therefore will be applied after all other federal and state grants and scholarships awarded via FAFSA and YOUniversal application have been applied to the student's account.

National Guard soldiers wanting to participate in the NGTW will obtain the application and Statement of Understanding through the Arkansas National Guard Education website each semester. Soldiers must have submitted the FAFSA and the Arkansas YOUniversal Financial Aid Application. More information, rules, and regulations can be found on the Arkansas National Guard Education website.

VETERANS EDUCATIONAL BENEFITS - GI BILL®

Active duty and veteran service members and their dependents may be entitled to VA Educational Benefits under a specific GI Bill®. To check eligibility, contact the VA at 1-888-GIBILL-1. Students who have applied for VA Educational Benefits and approved by the VA will receive a Certificate of Eligibility (COE) in the mail. This copy of the COE should be provided to the VA certifying official in the Financial Aid Office. UAFS does not determine eligibility. The VA alone makes the determination of benefit eligibility.

Students using VA Educational Benefits are responsible for knowing and understanding the rules and regulations concerning academic standards as they relate to those benefits. No payment of VA Educational Benefits will be made for auditing a course or for a course that is not verified by the VA certifying official as a course that applies to a degree program or career objective.

Students qualifying for VA Educational Benefits may also qualify for the VA work study program. Students interested must complete VA form 22-8691 (JUL 2012), Application for Work-Study Allowance, and return to the VA certifying official in the Financial Aid Office. If the student is approved by the VA to participate in the program and a position is open, the student will be contacted for an interview by the VA certifying official.

All inquiries concerning VA Educational Benefits should be addressed to the VA at 1-888-GIBILL-1. Complete information about VA Educational Benefit programs and requirements can be found at www.benefits.va.gov.

COMPLIANCE WITH THE VETERANS BENEFITS AND TRANSITION ACT OF 2018

The Veterans Benefits and Transition Act of 2018, requires UAFS and other institutions of higher learning to comply with its requirements.

Any covered individual who is entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post-9/11 is allowed to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement and completes any necessary paperwork for educational assistance under Chapter 31 or 33 and ending on the earlier of the following dates:

- The date on which payment from the VA is made to the institution.
- Ninety (90) days after the date the institution certified tuition and fees following the receipt of the COE.

UAFS will not impose any penalty (including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities) or require a covered individual to borrow additional funds because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of funding from the Department of Veterans Affairs under Chapters 31 or 33.

Under the statute, UAFS requires the covered individual to take the following actions:

- Submit a certificate of eligibility for entitlement to educational assistance no later than the first day of a course of education.
- Submit a request to certify to the UAFS VA school certifying official.
- Provide additional information necessary to the proper certification of enrollment by the university (for example, official transcripts from all previously attended institutions).

Note: Charges not covered by educational assistance for Chapter 31 or Chapter 33 are the student's responsibility and are not included under The Veterans Benefits and Transition Act of 2018. Penalties, including late fees and course cancellation, may be applied to the student's account for unpaid charges not covered under Chapter 31 or Chapter 33.

Scholarships

UAFS offers a number scholarship opportunities to prospective students. Incoming freshman applying for Freshman Prestigious Scholarships must complete a separate application in addition to being accepted for admissions by the published deadline. Incoming freshman applying for our Freshman Merit Scholarships will automatically be considered, as long as they are accepted for admission by the published deadline. No separate application is required for the Freshman Merit Scholarships. There are a limited number of scholarships available so students will be considered as long as funding is available. Information on all UAFS Scholarships, including deadlines and criteria is available at http://admissions.uafs.edu/scholarships.

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

Students receiving outside designated scholarships should notify the scholarship coordinator within the Financial Aid Office. Award letters will be required to verify amounts and duration of the outside designated scholarship.

A scholarship from an outside donor will be applied to the student's account as **estimated funds** (this does not include state scholarships from ADHE) only if the student provides an Award Notification Letter stating the following:

- Student's full name and student ID number.
- Name of awarded scholarship with contact name and phone number of the scholarship coordinator for the issuing agency
- Semesters of disbursement: fall only, spring only, summer only, or split between semesters. If there is no indication which semester(s), the amount will be split equally between fall and spring semesters.
- What the scholarship will pay for (tuition & fees, books, supplies, room and board, etc.) and if any unused amount is refundable to the student.
- Estimated arrival date of check to UAFS.
- The estimated funds will remain on student's account until October 1 for fall semester and March 15 for spring semester, or until the actual check is received from the donor. If the check does not arrive by the deadline, the estimated amount will be removed from the student's account. The student will then be subject to a hold preventing registration in future semesters until the check arrives, or until the remaining balance is paid. Tribal scholarships (Cherokee, Choctaw, etc.) are excepted from this policy. Estimated funds will be applied from the tribal award notification letter and remain on the student's account until the actual check arrives.

Act 1180 of 1999 provides that when a student receives public funds, federal or state, the student's total aid awarded cannot exceed the cost of attendance. This means a student's financial aid is limited to the cost of attendance. The Financial Aid Office monitors awards to prevent an over-award from occurring; however, unexpected receipt of funds can cause an adjustment to be made without notification. Please contact the Financial Aid Office with any questions.

General UAFS Foundation scholarships are offered through the generosity of community donors and friends of the university.

Arkansas Department of Higher Education Scholarship and Grant Programs

Several scholarships and grant programs are available through the State of Arkansas. They include the Arkansas Academic Challenge Scholarship and several others. For more information about deadlines and to apply, go to http://scholarships.adhe.edu and complete the *YOUniversal Application*.

ACADEMIC SUPPORT SERVICES

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 can receive up to 50% cash back of purchase price. See store for additional details.

Textbook and store information can also be found on the UAFS Lions Bookstore website.

Boreham Library

Boreham Library serves as a gathering place for students who want to study or meet with others in groups about class projects or other college-related matters. Individual study spaces and group study rooms are located throughout the building. Desktop computers are available to students. Each has a full complement of general academic software applications, statistical packages, and some software for the disabled.

The library seeks to provide students, faculty, and other members of the University community with their needs for information and cultural content (except textbooks). The library offers over 67,000 books, over 251,000 electronic books, and nearly 5,000 bound periodicals. There are over 80 subscription electronic databases as well as access to over 55,000 electronic journals. In addition, there are more than 4,000 CDs and DVDs available for users. Special collections include the Pebley Center for Arkansas Historical and Cultural Materials and the Foundation Center Grants Collection.

One of the main goals of the library staff is to educate users by helping them acquire the information literacy skills which will enable them to find, use, and evaluate information in all formats. They offer both face-to-face and electronic research assistance in locating, using and properly citing information resources.

For materials not in the library's collection, efficient inter-library loan service is available to students, faculty, and staff with little or no charge. Journal articles borrowed from other libraries can often be sent electronically to the borrowers. Students, faculty, and staff may check out books from the Fort Smith Public Library, the Scott County Regional Library, and, after obtaining a free ARKLink Statewide Library Card, from most academic libraries in the state.

The library's 24-hour study zone provides both computer access and a place for study during times when the main portion of the library is closed. Students and other members of the university community may access the 24-hour zone by using their Lions ID cards.

Library policies/fines and hours of operation and can be found at the Boreham Library website.

Career Services/Babb Center for Student Professional Development

Career Services is dedicated to providing guidance and services to currently enrolled students and alumni. Services are free and include help in creating resumes and cover letters, practice job interviews, guidance in finding internships, and various events and workshops designed to prepare students to enter the workplace.

A detailed list of services and career development information can be found on the Career Services website.

Gordon Kelley Academic Success Center

The concern of UAFS for the individual student is reflected in the Gordon Kelley Academic Success Center (ASC), which provides programs designed to meet individual student needs not met through the general curriculum. Faculty supplemental materials, free tutoring for many UAFS courses through drop-in tutoring, writing center, or Tutor.com for online tutoring, motivational programs, and learning programs are all provided to encourage student success. Time management, self-discipline, and motivational programs are provided for the student who wants to improve study skills and grades. Learning programs focus on specific strategies to understand, retain, and apply new information, as well as traditional study skills techniques. Learning programs are individually designed to meet student needs and are free to any University student.

An academic coach is available to meet and assist students to set academic goals and enhance academic success. Academic coaching sessions can be held face-to-face on campus or virtually through Blackboard online video chat. The academic coach works individually with students to help examine academic concerns and perceived barriers to success. This provides students with academic support in areas such as time management, self-discipline, procrastination, test preparation, note taking, balancing school/work/family, and other effective study strategies.

The ASC also provides reliable test administrative services while ensuring the highest ethical and professional testing standards in a secure and comfortable environment. Testing services include Accuplacer, CLEP and Challenge exams, online and make-up tests for UAFS courses, and some correspondence exams. Tests are scheduled by appointment. The Miller Analogies Test and PSB Health Occupations Aptitude exam are scheduled at various times during the school year. Please refer to the *Tuition and Fees* section for costs associated with all tests.

Registrar's Office

The Registrar's Office provides official student records and transcripts, processes graduation and registration forms, and provides student ID cards.

ENROLLMENT VERIFICATION

Students can print enrollment verifications 24/7 by using My.UAFS. Verifications can be used for scholarship, student loans, or insurance purposes. The Registrar's 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 Registrar's Office. Failure to do so may result in undeliverable registration notices, financial aid, invoices, invitations, and official correspondence.

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

TRANSCRIPT INFORMATION

Transcripts are sent electronically or via U.S. mail, and are issued only at the signed request of the student or appropriate institutions and officials. Requests for transcripts may be made on the transcript ordering page of the UAFS website or presented in person at the Registrar's Office. Telephone requests are not accepted. **Official transcripts will not be released if there are any outstanding financial obligations to the University.**

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

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 Registrar's 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 enter 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 their advisor. 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 their advisor

Student ADA Services

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

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

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

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

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.

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.

Veteran and Military Students

UAFS will treat veteran and military students with respect and dignity in all of its relationships. Administrative unit directors, along with the coordinator of veteran's aid and benefits, will seek out information specific to this population to be sure the most recent knowledge on benefits, rights, credit transfer, and special exemptions for those called up or otherwise obligated militarily will be employed. Admissions and the Registrar's Office will be knowledgeable concerning transfer of credits, campus veteran's organizations, and both on and off-campus resources such as the UAFS Veteran's Resource Center and the local VA Clinic. Admissions staff adheres to the National Association for College Admission Counseling guide to ethical practice in college admission which require transparency in information, marketing and presenting options. The guidelines also disallow financial benefits or bonuses being offered or renumerated to Admissions Advisors for meeting enrollment quotas. Advising will be well-versed in both general academic programs and the adult degree completer programs. Policies governing students' military obligations and the university's academic and financial responses will be well-publicized. The UAFS Career Center will consider how to connect military and veteran students with promising career opportunities.

ACADEMIC INFORMATION

UAFS's Expectation of Students

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

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

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

Absence Due to University Sponsored Events

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

Academic Bankruptcy

Academic bankruptcy allows a student to request a retroactive withdrawal from one academic term because of personal, emotional, or financial circumstances so devastating that it was impossible for the student to perform academically at a level approximating the usual record of achievement. For the purposes of this policy, the two summer terms are considered one academic term. The declaration of academic bankruptcy will be allowed as follows:

- Only currently enrolled students are eligible to request academic bankruptcy.
- Academic bankruptcy is never granted for the academic term in which the student is currently enrolled, nor for the previous academic term.
- Academic bankruptcy is only granted for UAFS coursework. Transfer credit is not eligible for academic bankruptcy.
- The request for academic bankruptcy must be declared prior to the completion of the student's graduation application.
- Bankruptcy cannot be reversed once granted.
- Students may declare academic bankruptcy only one time during their academic career at UAFS.
- If the petition is approved, the grades for all courses taken during the academic term in question will be recorded as W (withdrawn).
- The approval of academic bankruptcy does not entail the refund or reimbursement of any tuition and fees paid by the student during the affected term.
- Credits earned during the requested bankruptcy period cannot have been used to meet prerequisite requirements or satisfy a degree/certificate previously awarded at UAFS or its predecessors.
- Academic bankruptcy is not recognized by the federal government for financial aid eligibility determination regarding the satisfactory academic progress (SAP) policy.

Thus, the original grades earned during the bankruptcy term will be used in SAP calculations.

- Documentation of the personal, emotional, or financial circumstances noted in the petition will be required.
- The request for academic bankruptcy is filed in the Registrar's Office and reviewed by the faculty Academic Integrity Committee (AIC) or designee within 10 business days of submission by the student. The AIC will recommend approval/disapproval to the Provost or his/her designee, who will make the final decision.

Academic Clemency

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

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

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

Academic Honesty

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

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

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

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

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

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

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

Academic Progress, Probation, and Suspension

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.

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, all grades are computed in the cumulative GPA unless requested by the student as outlined in the UAFS grade replacement policy. 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 unless specified otherwise by the college of a particular course.

ACADEMIC PROBATION

Students will be placed on academic probation when their cumulative GPA falls below 2.0 at the close of the fall, spring, or combined summer terms. Students will remain on academic probation as long as the semester GPA is 2.0 or higher and cumulative GPA is less than 2.0. Credit hours are not limited. However, students will be required to meet with their advisor to review academic probation and suspension policies. Students on probation will be restricted from web registration. Certain colleges have established alternate guidelines based on program requirements. Students will be considered in good standing when their cumulative GPA is 2.0 or higher.

ACADEMIC PROBATION TRANSFER

New or returning students who have recently transferred from another institution and have a cumulative GPA below 2.0 must appeal for admission. If admission is granted, they

will enter on probation. Students with this standing may have specific enrollment requirements and must make a 2.0 GPA their first semester or be moved to academic suspension. Students on academic probation transfer will be restricted from web registration. Certain colleges have established alternate guidelines based on program requirements.

ACADEMIC SUSPENSION

Students will be placed on academic suspension if, while on academic probation, they do not achieve both a 2.00 semester and cumulative 2.00 GPA at the close of the fall, spring, or combined summer terms. Students allowed to return from suspension are restricted from web registration. Certain colleges have established alternate guidelines based on program requirements. Students on academic suspension are required to meet with their advising coordinator or professional advisor to discuss academic probation/suspension policies and limitations on enrollment

If suspended, the following guidelines will apply:

First Suspension:

- **Option 1.** Student may sit out one major term, fall or spring, and return without appeal.
- **Option 2.** Student may register in the following major term for a maximum of 13 credit hours to include SAS 0201 Bridge to Success Seminar. If the student does not make a 2.0 semester GPA and pass SAS 0201 with a grade of C or better, the student will be suspended for one major term and cannot appeal.

Second Suspension:

- Student will not be allowed to attend for two full consecutive terms, a fall and a spring semester.

Third Suspension:

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

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

Academic Second Opportunity

An undergraduate student who has been separated from The University of Arkansas- Fort Smith for at least two academic years may petition for their previous coursework be considered under the Academic Second Opportunity policy. The petition must be received in the registrar's office before the beginning of the student's first semester back at UAFS. If the petition is approved, all previous scholastic performance at UAFS will fall under the criteria below.

If the separation from the University resulted from academic misconduct, readmission will be reviewed by the Provost or designee.

If the application for Academic Second Opportunity is accepted, all previous academic work remains on the student's permanent record, but the grades for previous institutional work are not used in computing the GPA. Grades of "C" or higher earned during previous attendance at the University are computed as"passing hours" (P) and may be applied to a major program, requirements for prerequisites, and graduation requirements. Grades of "D" earned during previous attendance may not be applied to a major program, requirements for prerequisites, or graduation requirements. Academic Second

Opportunity will apply only to grades earned in courses completed at The University of Arkansas- Fort Smith and will not apply to coursework transferred from other institutions.

Academic second opportunity is not recognized by the federal government for financial aid eligibility determination regarding the satisfactory academic progress (SAP) policy. Thus, the original grades earned prior covered by the academic second opportunity will be used in SAP calculations.

The student then pursues his or her academic program with no University of Arkansas- Fort Smith GPA and thereafter is subject to the conditions of probation and dismissal that govern all students. The student must earn a minimum of 15 credit hours in residence at the University of Arkansas- Fort Smith after Academic Second Opportunity has been awarded to be eligible for degree completion. Once invoked, Academic Second Opportunity cannot be revoked and it may be awarded only once and may not be awarded retroactively.

A student who has a degree from another institution but was previously a student at UAFS or who has a degree from UAFS is not eligible for consideration.

The request for academic second opportunity is filed in the Registrar's Office and reviewed by the faculty Academic Integrity committee (AIC) or designee within ten business days of submission by the student. The AIC will recommend approval/ disapproval to the Provost or his/her designee, who will make the final decision.

Adult Degree Completion Program

The adult degree completion program (ADCP) provides an opportunity for students to earn a degree while remaining in the workforce. It provides an accelerated educational pathway to degree completion is provided by awarding college credit for the knowledge gained outside the classroom, including work experience, continuing education programs, military education, or certification programs.

To be eligible for the ADCP, students must be 25 years old, have at least five years of work experience, completed at least 30 hours of college credit, and have not earned a bachelor degree.

Two degree options available through the ADCP program, the bachelor of science in organizational leadership or the bachelor of general studies.

Advising

Academic advising is critical in promoting academic success, retention, and graduation. Students are assigned to professional advisors, advising coordinators, and/or faculty advisors by their declared major or college preparedness level. Establishing a

relationship with an advisor ensures that students are meeting their specific degree requirements and accomplishing their personal academic goals. Students are required to meet with their assigned faculty or professional advisor during the designated advising dates prior to their registration date(s) each semester. Students may view their assigned faculty or professional advisor's name in My.UAFS and Navigate.

ROAR FIRST-YEAR YEAR ADVISING CENTER

The ROAR (Relationships, Outreach, Advising, and Resources) First-Year Advising Center advises all first-time entering students. The office also provides advising support to the Office of International Relations. Professional advisors are available to assist students with goal setting, career exploration, selection of a major, course requirements, and to assist students in connecting with appropriate resources. They encourage career exploration by assisting students in the use of the career exploration computer program, Focus 2. Professional advisors are available to work with students by appointment and email. Call (479) 788-7400 for more information.

Students who have successfully completed 24 hours of coursework after high school graduation and completed their developmental coursework are advised within the college of their major.

Classification of Students

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

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

Concurrent Enrollment

UAFS offers two programs for high school students who meet certain criteria to enroll in college-level courses while still in high school.

Western Arkansas Technical Center

The Western Arkansas Technical Center (WATC) is an area secondary career and technical center that offers high school juniors and seniors in a six county area of western Arkansas a unique opportunity to earn college credit while still in high school. The curriculum serves as an extension of the high schools and allows students to gain hands-on experience in a variety of programs. WATC has three primary goals: 1) to aid students in making a more informed career choice, 2) to prepare students to enter the workforce upon high school graduation, and 3) to encourage students to continue their education after high school.

Students can earn up to 44 college credit hours that may apply toward a certificate of proficiency, technical certificate, associate, or baccalaureate degree. The programs of study are offered to students based on local job market demand and student interest.

Smart Start Program

Smart Start offers college-level general education courses that may also count for high school graduation requirements. Courses are part of the Arkansas Course Transfer System (ACTS) and are offered online and at the high school, depending upon the high school partnership. Additional information can be fount at the Smart Start website or by calling the Smart Start office at (479) 788-7410.

Credit for Non-Traditional Education

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

A student may receive credit at UAFS through the Advanced Placement Program (AP), the College-Level Examination Program (CLEP), challenge exams, and military service training. Credit from any combination of the sources is limited to one-half of the total credit required to complete a technical certificate or certificate of proficiency; credit should not exceed a maximum of 30 semester hours for an associate or baccalaureate degree.

College credit for AP and CLEP scores will be posted on the academic record after the state census day of the student's first semester, either fall or spring. Credit awarded for non-traditional education will appear on the student's permanent record as earned credit only, without any indication of grades or quality points. Credit posted as general transfer for the institution may not always apply to specific, degree-program requirements.

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

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

ADVANCED PLACEMENT

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

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

AP TEST	SCORE	UAFS COURSE(S)	HRS
Art History	3	HUMN 2563	3
Art History	4 or 5	HUMN 2563, AHIS 2863 & AHIS 2873	9
Biology	3	BIOL 1153/1151	4
Calculus AB	3	MATH 2804	4
Calculus BC	3	MATH 2804 & MATH 2854	8
Chemistry	3	CHEM 1403/1401	4
Chemistry	4	CHEM 1403/1401 & CHEM 1413/1411	8

AP TEST	SCORE	UAFS COURSE(S)	HRS
Computer Science A	3	ITA 1003 or CS 1093*	3
** Science and engineering majors may select ITA 1003 or CS 1093*			
Computer Science A	4	CS 1014	4
Computer Science Principles	3	ITA 1003 or CS 1093*	3
** Science and engineering majors may select ITA 1003 or CS 1093*			
English Literature & Composition	3	ENGL 1203	3
English Literature & Composition	4	ENGL 1203 & ENGL 1213	6
English Literature & Composition	5	ENGL 1203, 1213 & ENGL literature course **	9
*** Requires submission of writing samples to the head of the English department for review*			
English Language & Composition	3	ENGL 1203	3
English Language & Composition	4	ENGL 1203 & ENGL 1213	6
English Language & Composition	5	ENGL 1203, 1213 & ENGL literature course**	9
*** Requires submission of writing samples to the head of the English department for review*			
Environmental Science	3	GEOL 2653/2651	4
French Language & Culture	3	FREN 1304, 1314, 2303	11
German Language & Culture	3	GERM 1304, 1314, 2303	11
Human Geography	3	GEOG 2773	3
Macroeconomics	3	ECON 2803	3
Microeconomics	3	ECON 2813	3
Music Theory	3	MUSI 2763 or MUSI 1223***	3
**** Music majors may select MUSI 2763 or MUSI 1223*			
Physics 1	3	PHYS 2803/2811	4
Physics 2	3	PHYS 2803/2811 & PHYS 2823/2831	8
Physics C: Mechanics	3	PHYS 2903/2911	4
Physcis C: Electricity & Magnetism	3	PHYS 2903/2911 & PHYS 2923/2931	8
Psychology	3	PSYC 1163	3
Spanish Language & Culture	3	SPAN 1304, 1314, 2303	11
Statistics	3	STAT 2503	3
Studio Art: 2D Design	3	ART 1103****	3
Studio Art: 3D Design	3	ART 1143****	3
Studio Art: Drawing	3	ART 1113****	3
***** Credit for Art 1103, ART 1113, and ART 1143 will be determined by faculty review of the AP porfolio*			
US Government & Politics	3	POLS 2753	3
US History	3	HIST 2753 or HIST 2763	3
US History	4 or 5	HIST 2753 & HIST 2763	6
World History	3	HIST 1123 or HIST 1133	3
World History	4 or 5	HIST 1123 & HIST 1133	6

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP) AND DSST

Students who complete the subject-area examinations of the College-Level Examination Program (CLEP) with satisfactory scores may be granted credit toward a degree at UAFS. When testing in courses required by the major or minor, students must have approval from the college in which they are majoring to count the hours earned from CLEP toward graduation. CLEP credit may be awarded to those students who: (1) have met the minimum score requirement set by the University, (2) need the credit to satisfy the general education or elective requirements, (3) have not yet begun the course. Exams must be taken and scores received by the Registrar's Office before the student submits a graduation application. CLEP exams may not be retaken within a three month period per College Board policy.

Credit is awarded on the basis of DSST Subject Standardized Tests (formerly DANTES) in the same subject where CLEP credit is awarded by UAFS or as determined by the college of the discipline. Credit for DSST exams will be awarded based on the scoring recommendations of the American Council on Education.

Official score reports are received from the College Entrance Examination Board or the Educational Testing Service. Inquiries should be directed to the Testing Center, which administers the examination. Credit is offered in the following CLEP subjects:

COMPOSITION AND LITERATURE	SCORE	UAFS COURSE(S)	HRS
College Composition	50	ENGL 1203	3
College Composition	59	ENGL 1203 & ENGL 1213	6
American Literature	50	ENGL 2023	3
American Literature	59	ENGL 2013 & ENGL 2023	6

WORLD LANGUAGES	SCORE	UAFS COURSE(S)	HRS
French Language	50	FREN 1304/1314	8
French Language	59	FREN 1304/1314/2303	11
German Language	50	GERM 1304/1314	8
German Language	59	GERM 1304/1314/2303	11
Spanish Language	50	SPAN 1304/1314	8
Spanish Language	63	SPAN 1304/1314/2303	11

MATHEMATICS AND SCIENCES	SCORE	UAFS COURSE(S)	HRS
College Algebra	50	MATH 1403	3
Calculus	50	MATH 2804	4
Biology	50	BIOL 1153/1151	4
Chemistry	50	CHEM 1403/1401	4
Chemistry	55	CHEM 1403/1401 & 1413/1411	8
Precalculus	50	MATH 1715	5

SOCIAL SCIENCES AND HISTORY	SCORE	UAFS COURSE(S)	HRS
American Government	50	POLS 2753	3
United States History I	50	HIST 2753	3
United States History II	50	HIST 2763	3
Human Growth & Development	50	PSYC 2963	3
Introductory Psychology	50	PSYC 1163	3
Introductory Sociology	55	SOCI 2753	3

BUSINESS	SCORE	UAFS COURSE(S)	HRS
Financial Accounting	50	ACCT 2803	3
Introductory Business Law	50	LAW 2003	3
Macroeconomics	50	ECON 2803	3
Microeconomics	50	ECON 2813	3
Marketing	50	MKTG 3013	3

CHALLENGE EXAMINATIONS

In courses for which no CLEP examination is available, UAFS may grant credit on the basis of examinations administered by the department in which the credit is to be awarded. A challenge exam can be taken only with department approval and after payment of the challenge exam fee. If a specific course is not listed in the CLEP section of this catalog, a student may contact the department chair of the course to determine if a challenge exam is appropriate and available.

Challenge exams can be taken only before the student enrolls in the course, with the exception of FIN 1521 *Personal Finance Applications* and ITA 1003 *Computer Applications for the Knowledge Worker*. The challenge exam for both can be taken during the first week the course is taught.

MILITARY CREDIT

Active duty personnel and veterans are required to submit military transcripts for prior credit evaluation. The recommendation of the American Council on Education, A Guide to the Evaluation of Education Experiences in the Armed Services, will be used in evaluating military service school training. A certified true copy of the veteran's separation papers (DD 214) and official transcript from the appropriate branch of service should be submitted to the Registrar's Office.

Military transcripts for active duty personnel and veterans of the Army, Coast Guard, Marines, and Navy can request transcripts via the Joint Services Transcript (JST). Transcripts for active duty personnel and veterans of the Air Force can be obtained through the Community College of the Air Force..

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

INTERNATIONAL BACCALAUREATE PROGRAM

Student may receive credit through the International Baccalaureate Program (IB). Students may receive credit for higher level IB subject examinations with scores of 5 or above to fulfill major requirements in a discipline, pending approval of the department and college of the discipline. Some subject areas may be considered for additional examinations or scores.

Credit Hours and Course Load

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

Dean's List

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

Degree Plans

Students will sign a degree plan for their declared major, based on the catalog year in which they declare the major. The degree plan provides a course guide for students. Students who define their major early in their college careers are more likely to attain their career goals in a timely manner.

DECIDED MAJOR AT UAFS

Students who have chosen a major should follow the degree plan for their declared major to complete their baccalaureate degree, associate degree, technical certificate, and/or certificate of proficiency.

UNDECIDED MAJOR AT UAFS

Students who have not determined a major field of study but are considering a baccalaureate degree, should follow the associate of arts or associate of general studies degree. Undecided students must carefully choose courses understanding that the longer they wait to choose a major, the greater the chance specific courses taken may not apply to the ultimate major.

GUARANTEED EIGHT-SEMESTER DEGREE PROGRAM

Pursuant to ACT 1014 of 2005, qualified first-time, full-time students with a declared major may elect to participate in the guaranteed eight-semester degree completion program to complete degree requirements in four academic years. Qualified students must enter as a first-year student in the fall semester, be registered by July 1, and register through new student orientation. The baccalaureate degrees that qualify for this program are listed below. The degree completion plans are listed in this catalog and on the University website. All first-time

entering students must accept or waive the guaranteed eight-semester degree completion program when enrolling for the first term of study. Students must follow the degree plan and meet all requirements as outlined in the guaranteed eight-semester degree contract. The student accepts responsibility for monitoring his/her progress toward a degree and for making choices that will lead to graduation in four years. The contract and the degree plan must be signed and filed with the advisor. The official copy of the contract and degree plan must be filed in the Registrar's Office prior to the first term of enrollment.

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

- Biology
- Biology w/ Teacher Licensure
- Business Administration
- Chemistry
- Criminal Justice
- Computer Science
- Dental Hygiene
- Elementary Education
- English
- English w/ Teacher Licensure
- Graphic Design
- History w/ Social Studies Teacher Licensure
- History
- Mathematics
- Mathematics w/ Teacher Licensure
- Media Communication
- Middle Childhood Education
- Music
- Music Education
- Nursing
- Organizational Leadership
- Psychology
- Political Science
- Rhetoric and Writing
- Social Work
- Studio Art
- Theatre

Developmental Education Guidelines

Students who place into developmental coursework are conditionally accepted and will be required to demonstrate academic progress to continue their enrollment. Students must enroll in developmental coursework each semester, including summer sessions, until completed with a grade of C or better. Exceptions may be made by the department head of the students' declared major, or if a declared certificate does not require developmental coursework.

Final Exams

Final exams are given each semester as designated on the posted final exam schedule for that semester. Any exception to the published final exam times must be approved by the Provost.

Students with three or more final examinations on the same day are entitled to arrange an alternate examination time for the last exam or exams scheduled on that day. Such arrangements must be made by the end of the twelfth week of the semester(last day to drop full-semester course), and must be approved by the instructor and department head/program director of the affected course. Students will be required to provide evidence of these situations to qualify for this exception. Once approved, the make-up examination will be administered at a mutually acceptable time and location.

Grades and Grade Points

UAFS uses the following system of grading:

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

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

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

GPA DEFINITIONS

Cumulative GPA: GPA for all coursework completed at UAFS.

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

IN-PROGRESS GRADE

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

If a grade of IP is assigned, the faculty member will make a written contract with the student, list work to be completed, and provide a specific date for completion of the coursework. The faculty member will file the contract with the Registrar's Office. All IP contracts must be approved and signed by the faculty member's dean prior to filing with the Registrar's Office.

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

GRADE PETITIONING

A student who believes an error has been made in the assignment of a final grade must contact the faculty member to resolve the issue(s). Should the student remain dissatisfied, he or she may appeal to the department head or program director (if applicable) and then to the dean of the College in which the course originates. If the dean disagrees with the faculty member's response, the dean will refer the matter to the Academic Integrity Committee. The dean will respond to the student in writing

within seven business days of receipt of the written appeal from the student, either denying the appeal or indicating that the appeal has been referred to the Academic Integrity Committee. If the dean has upheld the faculty member's response, the student may petition the Academic Integrity Committee and should do so no later than the last day of the next regular (fall or spring) semester. Failure to act within that time period disqualifies the student from further pursuit of the matter. The Academic Integrity Committee shall be convened within 14 business days of receipt of the petition. The committee shall submit its recommendation to the provost no later than 21 business days from receipt of the petition. The provost will notify the student of the decision. The decision of the provost is final. Grade petition forms are available from an advisor.

ACADEMIC GRIEVANCE PROCESS

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

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

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

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

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

Grade Replacement and Repeating Courses

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 replacement (the exclusion of individual course grades) will not be applied to all repeated courses. Grade replacement will only be allowed as noted below. Students wishing to replace a grade must bring the completed *Grade Replacement Request* form to the Registrar's Office.

- May be used for a maximum of 12 hours. The first attempt 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 Registrar's 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).
- Can only be applied one time to any given course (in which case the second and subsequent grades will all count in the GPA).
- In all other cases, all grades earned will be included in the calculation of the cumulative GPA. All courses are included as attempted hours for financial aid purposes.
- Grade replacement is eligible only for courses taken before the first baccalaureate degree is awarded.
- Courses repeated for purposes of grade replacement must be the exact course. Students may not use substitutions for repeated courses. The department chair, the appropriate college dean, and the registrar will determine the application of the grade replacement policy in those instances where UAFS course numbers and/or titles have been changed.

This policy will go into effect for classes taken during the fall 2018 semester and beyond. Prior grade replacements will not be affected, nor will they count against the four allowed courses for replacement. The change in GPA calculation will be handled prospectively from fall 2018 forward.

Students considering grade replacement should be aware that many graduate schools, professional schools, employers or other institutions, in considering admission or employment, recompute the GPA and include all courses attempted even though grade replacement has been granted. This means that if the cumulative GPA has been raised because of grade replacement, the recomputed GPA will be lower.

Please refer to the *Acceptance of Transfer Credit* section of this catalog for information about repeating transfer courses. Students may not attempt any course more than twice and be eligible for admission to some programs in the College of Health, Education, and Human Sciences. Students should discuss retaking courses with their advisor.

Grade Reports

Mid-term and final grades for each semester are accessible through My.UAFS. Students can review and print unofficial copies of their current grades and transcripts through My.UAFS. Only the final grade is posted on the official transcript.

MANE Event New Student Orientation

All first-time college students must attend a MANE Event New Student Orientation to learn about the University. Students will schedule a separate one-on-one advising appointment with an advisor to register for their first semester of classes.

Myles Friedman Honors Program

The Myles Friedman Honors 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 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 to participate in additional travel-study opportunities when practical.

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

HONORS CURRICULUM - 28 TOTAL HOURS		
HONR	1101	Introduction to Honors International Studies
HONR	3713	Honors Junior Research Seminar
HONR	4803	Honors International Studies Capstone
Honors Maymester domestic and international travel		
Honors General Education Core Requirements		

Prerequisite and Corequisite Course Requirements

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

Corequisite courses must be taken concurrently.

Registration/Withdrawal

Students must be advised and register during designated advising and registration periods published on the University website. Registration is accomplished through the University web-registration system, with an advising coordinator, or with a professional advisor in the ROAR First-Year Advising Center.

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

Priority for registration is based on the number of hours completed, with seniors first, followed by juniors, sophomores and then freshman. Registration for veterans, service members, and their dependents will open on the same day as seniors.

LATE REGISTRATION AND LATE COURSE CHANGES

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.

WAITLISTED 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 off-schedule courses will follow a prorated time period. No change will be allowed after the fifth day of the term.

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

WITHDRAWAL FROM COURSES

Students may withdraw from courses prior to the start of the fall, spring, and summer terms online through My.UAFS or through an advisor with a Change of Schedule form. This form must be received by the Registrar's Office. Once the term has begun, students who wish to withdraw from a class or change classes are governed by the following policy:

1. Withdrawals through 11th day of the fall/spring semesters and fifth day of the summer terms are not recorded on the student's permanent record.
2. After the 11th day of the fall/spring semesters and fifth day of the summer terms:
    a. Students are required to have a Change of Schedule form signed by their advisor 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.
    c. Summer term students withdrawing from a credit class prior to 5 pm on Friday of the fourth week of the five-week term in which they are enrolled will receive a W on their permanent record.

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

ADMINISTRATIVE WITHDRAWAL OF STUDENT FROM COURSES

When absences exceed the number allowed by the faculty of the class as noted in the courses syllabus, he or she has the authority to give the student a grade of F at the end of the semester, or to drop the student from the class within the withdrawal period by the following procedure:

1. The faculty member notifies the student of his or her attendance status.
2. The student is given the opportunity to discuss his or her status with the faculty member.
3. If attendance is subsequently unsatisfactory, the faculty may drop the student from the class by completing the withdrawal notice and filing the form with the Registrar's Office.

In instances of clear non-attendance and repeated instances of non-response to attempts to the contact the student, the Registrar's Office may drop the student from any course in which the student has not attended or stopped attending.

These procedures do not remove the primary responsibility of the student for taking official withdrawal action nor does remove the student obligation to pay all tuition and fees for the withdrawn course.

Students dropped by a faculty member or Registrar's Office receive a W through the twelfth week of a regular semester and the fourth week of a summer five week term. Courses dropped by a faculty member or the Registrar's Office may be subject to return of Title IV funds. Refer to *Financial Aid and Scholarships* section for additional information.

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

APPEAL OF TUITION REFUND POLICY, DROP DATES, AND LATE PAYMENT FEE

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

UAFS Promise

The UAFS Promise is a fixed tuition program the university for first-time entering students. Eligible students are guaranteed a single tuition rate for a maximum of four years of attendance, provided they remain on track to graduate according to their degree plan and maintain eligibility to enroll at UAFS. Fees are not included in the UAFS Promise.

University Email

University email is accessed through My.UAFS and is the official means of communication between UAFS officials, including all faculty, staff, and students. All students are expected to check their My.UAFS account frequently to stay current with UAFS communications.

University Learning Outcomes

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

Academic programs establish goals, objectives, and assessments for four university learning outcomes. These goals form the cornerstone for the program-level assessment plan. The four university learning outcomes are measurable characteristics 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.
- Students will represent mathematical/statistical information symbolically, visually, numerically and verbally and will interpret models and data in order to draw inferences.
- Students will recognize the limitations of quantitative analysis.

COMMUNICATION SKILLS (WRITTEN AND ORAL)

Goal: Students will communicate proficiently.

Objectives

- Students will compose coherent documents appropriate to the intended audience.
- Students will effectively communicate orally in a public setting.

ETHICAL DECISION MAKING

Goal: Students will model ethical decision-making processes.

Objectives

- Students will identify ethical dilemmas and affected parties.
- Students will apply ethical frameworks to resolve a variety of ethical dilemmas.

GLOBAL AND CULTURAL PERSPECTIVES

Goal: Students will reflect upon cultural differences and their implications for interacting with people from cultures other than their own.

Objectives

- Students will demonstrate understanding or application of their discipline in a global environment.
- Students will demonstrate how their discipline impacts or is impacted by different cultures.

GRADUATION REQUIREMENTS

Degree Program Requirements

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

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

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

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

Graduation Requirements

It is the primary responsibility of students to know the graduation requirements of their academic programs, including all University requirements. Students must satisfy all graduation requirements and required college-level work. Any student completing degree requirements at the conclusion of the spring semester or either summer term must apply by April 15 of the previous year; any student completing degree requirements at the end of the fall semester must apply by November 15 of the previous year. A commencement ceremony is held twice per year to recognize degrees and awards.

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

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

- Complete a minimum of 120 unduplicated semester hours, including the major and general education requirements. Students seeking a bachelor of arts degree must complete requirements for a minor in a discipline different from their major. Academic programs and colleges may specify additional and/or more specific requirements.
- A minimum of a 2.00 cumulative GPA on all work attempted at the University and a minimum 2.00 cumulative GPA on all courses in the major and/or minor areas as indicated on individual degree plans. Academic programs and colleges may specify additional and/or more specific requirements.
- Satisfy General Education Core Requirements. Individual majors may require specific general education core requirements. Each student must graduate with a minimum grade of C in the six hours of required freshman English composition courses. Only six hours of freshman English composition courses may be used to satisfy degree requirements.
- No student will be allowed to graduate with a grade of D in more than 15 hours of credit earned and presented to meet requirements for a degree. This 15 hours of credit includes any grade of D earned at this institution and/or transferred (if approved by provost) from another institution. Academic programs and colleges may have more specific or stringent requirements.
- A minimum of 40 hours of upper-level (3000-4000) courses in completion of degree requirements is required.
- A minimum 50% of the credit hours in the major and minor areas must be completed in residency.

- A minimum of 30 hours toward degree requirements must be completed in residency.
- Students who transfer to the University may present for degree credit no more than 68 hours of lower division transfer coursework (1000-2000 level). The number of upper division transferable courses may vary by college and program.
- No more than a total of 30 hours of credit for non-traditional education may apply to a degree. These hours are not counted in hours of residency.
- A maximum of four, one-credit-hour physical education activity courses may be applied toward graduation. A maximum of three credit hours of computer applications courses may be applied toward graduation. A maximum of eight hours (in combination) of music performance classes, music class instruction, and/or private instruction courses may be applied toward graduation requirements for non-music majors.
- Colleges may have specific criteria for meeting baccalaureate degree graduation requirements. Students should follow the appropriate degree requirements of the individual academic program or college.
- Successful completion of the degree program is not based solely on the number of credit courses, but requires demonstration of specific professional knowledge, skills, and behaviors. Once the student has begun the program, periodic evaluation will assess progress. Failure to progress satisfactorily might result in a student being removed from the program or denied graduation.
- 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 an associate degree from UAFS, students must satisfy the following requirements:

- Complete a minimum of 60 semester hours and meet the requirements for a degree as outlined in the requirements of the individual College. Colleges may specify additional and/or more restrictive program requirements.
- A minimum of a 2.00 cumulative GPA on all work attempted at the University. For the associate of applied science, students must maintain a 2.00 GPA in the specific major as indicated on individual degree plans and a 2.00 cumulative GPA.
- Satisfy General Education Core Requirements. Individual majors may require specific general education core requirements. Each student must graduate with a minimum grade of C in the six hours of required freshman English composition courses. Only six hours of freshman English composition courses may be used to satisfy degree requirements.
- No more than a total of 30 hours of credit for non-traditional education may apply toward a degree. These hours are not counted in hours of residency.
- No student will be allowed to graduate with a grade of D in more than 15 hours of credit earned and presented to meet requirements for a degree. This 15 hours of credit includes any grade of D earned at this institution and/or transferred (if approved by provost) from another institution. Academic programs and colleges may have more specific or stringent requirements.
- For an associate of arts or associate of general studies degree, the last 15 hours of work must be completed in residency. If a student has completed 30 or more hours at UAFS, six of the last 15 hours may be transferred from another institution. For an associate of applied science degree or associate of science, at least half of the credit hours of the major field and last 15 hours of work must be completed in residency.
- The associate of arts degree meets the Arkansas Department of Higher Education guidelines. Students must meet the general education core requirements and electives must be selected from the lower-level (1000 and 2000) general education course disciplines as indicated on the associate of arts degree plan.
- For the associate of general studies, students must complete 29 hours of the general education core requirements and lower-level (1000 and 2000) elective courses. A maximum of four, one-credit-hour physical education activity courses may be applied toward graduation. A maximum of three credit hours of computer applications courses may be applied toward graduation. A maximum of eight hours (in combination) of music performance classes, music class instruction, and/or private instruction courses may be applied toward graduation requirements for non-music majors. Upper-level (3000 and 4000) courses may not be used to satisfy degree requirements.
- Only one associate of arts or associate of general studies degree may be earned. Students who have previously graduated with an associate degree at UAFS can complete a second associate degree in a different discipline. An additional 15 hours of courses beyond the first degree and towards the second, and completed after graduation with the first degree, is required in residency. All other requirements for graduation must be met. Two associate degrees may not be awarded concurrently. Students who have previously graduated with a baccalaureate degree cannot be awarded an associate of arts or associate of general studies degree.
- Successful completion of the degree program may not be based solely on the number of credit courses, but requires demonstration of specified professional knowledge, skills, and behaviors. Once the student has begun the program, periodic evaluations are used to assess progress. Failure to progress satisfactorily might result in a student being removed from the program or denied graduation.
- An associate degree and a baccalaureate degree may not be awarded concurrently. There must be at least one major term between degree awarded date for an associate degree and a baccalaureate degree.
- 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 technical certificate from UAFS, students must satisfy the following requirements:

- A minimum of a 2.00 cumulative GPA on all work attempted at the University and in the courses required for the technical certificate.
- A minimum of 15 hours of credit must be completed in residency.

- No student will be allowed to graduate with a grade of D in more than one course used to meet the requirements of the technical certificate; however, some colleges will not accept a grade of D in courses required for the technical certificate.
- 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 bachelor of arts (BA) or bachelor of science (BS). Students wishing to pursue a double major must declare their intent after consultation with their faculty advisor and obtain approval by the dean(s) of the college(s) offering both majors. The student must deliver the declaration of double major form, with required signatures, to the Registrar's 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. Students should complete courses for both majors simultaneously since eligibility for some forms of financial aid and scholarships ends when requirements for the first major are met. 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 BA 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 Registrar's Office before completion of 75 credit hours. Only 12 hours of courses required by the first degree may be used to satisfy requirements of the second (in addition to the general education requirements). Earning two degrees will increase a student's workload and take more time to complete. Students should complete courses for both degrees simultaneously since eligibility for some forms of financial aid and scholarships ends when requirements for the first degree are met.

RETURNING TO EARN AN ADDITIONAL BACCALAUREATE DEGREE

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

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

Academic honors are not awarded for the second degree.

MINOR REQUIREMENTS

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

Students wishing to pursue a minor must declare their intent after consultation with their faculty advisor. Students are permitted to declare a double minor. The student must deliver the *Declaration of Major and/or Minor* Form, with required signatures, to the Registrar's Office before completion of 75 hours. A minimum 50% of the credit hours in the minor must be completed in residency.

ELECTIVE REQUIREMENTS

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 the graduation and degree requirements.

Students must complete an application to graduate with their advisor to be considered for graduation. 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 will be awarded the degree upon completion of program requirements.

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

Honors will be conferred upon graduates who meet the 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 final semester grades. University honors will be identified on the official transcript and diploma.

No student subject to disciplinary sanctions for academic misconduct or disciplinary suspension at the University will be graduated with honors.

Baccalaureate degree 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. This 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 UAFS are not eligible for honors.

The associate degree *with distinction* will be conferred upon associate degree graduates who have a cumulative GPA of 3.6-4.0 in all college-level coursework, including coursework from other institutions and all repeated coursework (developmental courses and courses for which academic clemency have been granted are excluded). Eligible candidates must also meet the residency requirement for their respective associate degree (AA and AGS – last 15 hours in residency; AAS and AS – last 15 hours and 50% of major hours in residency). Associate degree honors are awarded only for the first associate degree earned; students who have previously earned a degree higher than the associate level are not eligible.

AWARDING OF POSTHUMOUS DEGREES

Posthumous degrees may be awarded to students who died while enrolled in a UAFS degree program under the following conditions:

1. The student should be within a semester of completing graduation requirements and in good standing with all UAFS policies for graduation.
2. The student must not have died while committing a felony.
3. The student must not have been dismissed or suspended from UAFS at the time of death.

The process for the awarding a posthumous degree may be initiated by a family member of the deceased or an employee of UAFS.

General Education Core Requirements

In accordance with the requirements of the Arkansas Division of Higher Education (ADHE), UAFS requires the completion of a state minimum core of 35 hours of general education courses for baccalaureate, associate of arts, and associate of science degrees. Also in accordance with ADHE requirements, UAFS requires 15 hours of general education courses for associate of applied science and associate of general studies degrees. UAFS has identified the specified courses in the academic areas below to meet these requirements.

Some programs may require specific courses within the general education core to meet degree requirements. Students should consult the requirements for specific Colleges and programs when choosing courses to meet the University general education requirements.

GENERAL EDUCATION CORE FOR BACCALAUREATE, ASSOCIATE OF ARTS, AND ASSOCIATE OF SCIENCE

ENGLISH COMPOSITION - SIX HOURS

Select a two course sequence

ENGL	1203	Composition I
ENGL	1213	Composition II
ENGL	1233	Honors Composition
RHET	2863	Advanced Composition

SPEECH - THREE HOURS

SPCH	1203	Introduction to Speech Communication

MATHEMATICS - THREE HOURS

Select one course

MATH	1303	College Mathematics and Quantitative Literacy
MATH	1403	College Algebra

MATH or STAT course with MATH 1403 as a prerequisite		

LAB SCIENCE - EIGHT HOURS

Select two lecture/lab courses

BIOL	1153 1151	Biological Science Biological Science Laboratory
BIOL	2203 2201	Human Anatomy Human Anatomy Laboratory
BIOL	2213 2211	Human Physiology Human Physiology Laboratory
BIOL	2303 2301	General Botany General Botany Laboratory
BIOL	2503 2501	General Microbiology General Microbiology Laboratory
BIOL	2703 2701	General Zoology General Zoology Laboratory
CHEM	1303 1301	Chemical Principles Chemical Principles Laboratory
CHEM	1403 1401	College Chemistry I College Chemistry I Laboratory
CHEM	1413 1411	College Chemistry II College Chemistry II Laboratory
GEOL	1253 1251	Physical Geology Physical Geology Laboratory
GEOL	2653 2651	Earth Science Earth Science Laboratory
PHSC	2503 2501	Fundamentals of Astronomy Fundamentals of Astronomy Laboratory
PHSC	2713 2711	Physical Science Physical Science Laboratory
PHYS	2803 2811	College Physics I College Physics I Laboratory
PHYS	2823 2831	College Physics I College Physics I Laboratory
PHYS	2903 2911	University Physics I University Physics I Laboratory
PHYS	2923 2931	University Physics II University Physics II Laboratory

FINE ARTS - THREE HOURS

Select one course

AHIS	2863	Art History Survey I
AHIS	2873	Art History Survey II
ENGL	2853	Introduction to Creative Writing
HUMN	2563	Humanities through the Arts
HUMN	2663	Introduction to Film
MUSI	2763	Music Appreciation

HUMANITIES - THREE HOURS

Select one course

ENGL	2013	Introduction to Global Literature
ENGL	2023	Introduction to American Literature
FREN	2303	Intermediate French I
FREN	2313	Intermediate French II
GERM	2303	Intermediate German I
GERM	2313	Intermediate German II
PHIL	2753	Introduction to Philosophy
RELI	2303	World Religions
SPAN	2303	Intermediate Spanish I
SPAN	2313	Intermediate Spanish II

HISTORY/GOVERNMENT - THREE HOURS

Select one course

HIST	2753	United States History I
HIST	2763	United States History II
POLS	2753	American National Government

SOCIAL SCIENCES - SIX HOURS

Select two courses from different areas

ANTH	2803	Cultural Anthropology
CJ	1013	Introduction to the Criminal Justice System
DVST	2003	Introduction to Diversity Studies
ECON ECON	2803 2813	Principles of Macroeconomics or Principles of Microeconomics
GEOG GEOG	2753 2773	World Regional Geography or Human Geography
HIST HIST	1123 1133	Civilizations of the World to 1500 or Civilizations of the World since 1500
HIST HIST	2753 2763	United States History I* or United States History II*
POLS	2753	American National Government*
PSYC	1163	General Psychology
SOCI SOCI	2753 2853	Introduction to Sociology or Social Problems

* if not used to meet History/Government requirement

GENERAL EDUCATION CORE FOR ASSOCIATE OF APPLIED SCIENCE AND ASSOCIATE OF GENERAL STUDIES

ENGLISH COMPOSITION - SIX HOURS

Select a two course sequence

ENGL ENGL	1203 1213	Composition I Composition II
ENGL RHET	1233 2863	Honors Composition Advanced Composition

MATHEMATICS - THREE HOURS

Select one course

MATH	1303	College Mathematics and Quantitative Literacy
MATH	1403	College Algebra
MATH or STAT course with MATH 1403 as a prerequisite		

SOCIAL SCIENCES - THREE HOURS

Select one course

ANTH	2803	Cultural Anthropology
CJ	1013	Introduction to the Criminal Justice System
DVST	2003	Introduction to Diversity Studies
ECON	2803	Principles of Macroeconomics
ECON	2813	Principles of Microeconomics
GEOG	2753	World Regional Geography
GEOG	2773	Human Geography
HIST	1123	Civilizations of the World to 1500

HIST	1133	Civilizations of the World since 1500
HIST	2753	United States History I
HIST	2763	United States History II
POLS	2753	American National Government
PSYC	1163	General Psychology
SOCI	2753	Introduction to Sociology
SOCI	2853	Social Problems

COMPUTER APPLICATIONS/TECHNOLOGY - THREE HOURS

ITA	1003	Computer Applications for the Knowledge Worker or program related technology course

COLLEGE OF ARTS AND SCIENCES

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

BACHELOR OF ARTS (BA) DEGREE

- English
- History
- Media Communication
- Music
- Political Science
- Psychology
- Rhetoric and Writing
- Spanish
- Studio Art
- Theatre

BACHELOR OF SCIENCE (BS) DEGREE

- Biology, with concentration in biological sciences or biomedical professionals
- Chemistry, with concentration in biochemistry or general chemistry
- Computer Science
- Criminal Justice
- Geoscience
- Graphic Design
- Mathematics

The College of Arts and Sciences, in partnership with the School of Education, offers the following programs:

- Biology with Life Science Teacher Licensure 7-12
- English with Teacher Licensure 7-12
- History with Social Studies Teacher Licensure 7-12
- Mathematics with Teacher Licensure 7-12

BACHELOR OF MUSIC EDUCATION (BME) DEGREE

The College of Arts and Sciences, in partnership with the School of Education, offers the following program:

- Music Education
  Instrumental Music P-8 and 7-12
  Vocal Music P-8 and 7-12

BACHELOR OF GENERAL STUDIES (BGS) DEGREE

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

- Crime Scene Investigation
- Law Enforcement Administration
- Criminal Justice

ASSOCIATE OF SCIENCE (AS) DEGREE

- Electrical Engineering
- Mechanical Engineering

ASSOCIATE OF ARTS (AA) DEGREE

ASSOCIATE OF GENERAL STUDIES (AGS) DEGREE

MINORS

- Applied Statistics
- Art History
- Biology
- Chemistry
- Computer Science
- Creative Writing
- Criminal Justice
- Diversity Studies
- English
- Geoscience
- History
- Mathematics
- Media Communication
- Music
- Philosophy
- Physics
- Political Science
- Rhetoric and Writing
- Sociology
- Spanish
- Speech
- Studio Art
- Teaching English as a Second Language
- Theatre

TECHNICAL CERTIFICATE

- Crime Scene Investigation
- Law Enforcement Administration

CERTIFICATE OF PROFICIENCY

- Crime Scene Investigation
- Cyber Systems
- Data Analytics
- Law Enforcement Administration

- Spanish for the Helping Professions
- Teaching English as a Second Language

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

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

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 with such credits will be required to take courses beyond those earned through CLEP or AP credit.

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. The 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 experience, 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.

All courses taken for credit are used for computing the GPA on professional program applications. Students should consult with the pre-professional advisor prior to repeating courses.

Applied Statistics

APPLIED STATISTICS MINOR
MINOR CODE: AO30

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

Art History

ART HISTORY MINOR
MINOR CODE: AO31

The minor in art history requires 18 credit hours. Each course in the minor must be completed with a grade of C or better and a 2.75 GPA in all courses used to complete minor requirements.

REQUIRED NINE HOURS:

AHIS	2863	Art History Survey I	1
AHIS	2873	Art History Survey II	1
AHIS	3203	Art Outside the Western Tradition	

SELECT NINE HOURS FROM THE FOLLOWING:

Any 3000- or 4000-level AHIS course	2

Notes

1. AHIS 2863 and AHIS 2873 cannot be used for both the studio art/graphic design major and art history minor for

students who choose this combination. Upper-level AHIS courses must be used to substitute for AHIS 2863 and AHIS 2873.

2. Studio art and graphic design majors may substitute up to six hours of upper-level courses in complementary disciplines (e.g. history, English, anthropology, philosophy, etc.) for upper-level AHIS courses. Prior approval of the art/graphic design department head is required.

Biology

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3006

BIOLOGICAL SCIENCE CONC. CODE: C057
BIOMEDICAL PROFESSIONS CONC. CODE: C058

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	BIOL	2003	Introduction to Cell Biology	2 & 6
4	CHEM	1403 1401	College Chemistry I College Chemistry I Laboratory	6
1	FIN	1521	Personal Finance Applications	9
1	STEM	1001	College Preparation for STEM Majors	
3	Fine Arts/Humanities/Social Sciences requirement			1
3	English Composition requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
1	BIOL	2011	General Biology Laboratory	2 & 6
3	BIOL	2013	Introduction to Organismal Biology	2 & 6
4	CHEM	1413 1411	College Chemistry II College Chemistry II Laboratory	6
3	STAT	2503	Probability and Statistics I	6
3	English Composition requirement			1
2	Additional Degree Requirement			5

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	BIOL or BIOL	2503 2501 2703 2701	General Microbiology and General Microbiology Laboratory General Zoology and General Zoology Laboratory	2 & 6
4	CHEM	2703 2701	Organic Chemistry I Organic Chemistry I Laboratory	2 & 6
3	SPCH	1203	Introduction to Speech Communication	
4	Concentration requirement			2, 6 & 7

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	BIOL or BIOL	2503 2501 2703 2701	General Microbiology and General Microbiology Laboratory General Zoology and General Zoology Laboratory	2 & 6
4	CHEM	2713 2711	Organic Chemistry II Organic Chemistry II Laboratory	2 & 6
4	Concentration requirement			2, 6 & 7
3	Fine Arts/Humanities/Social Sciences requirement			1

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS		NOTES
3	Concentration requirement	2, 6 & 7
4	Physics sequence	2, 3 & 6
3	Fine Arts/Humanities/Social Sciences requirement	1
5	Additional degree requirement	5

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	BIOL 	3803 3801	Genetics Genetics Laboratory	2 & 6
4	Physics sequence			2, 3 & 6
3	Fine Arts/Humanities/Social Sciences requirement			1
4	Additional degree requirement			5

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	BIOL	4403	Evolutionary Biology	2 & 6
4	Upper-level Biology electives			2, 4 & 6
4	Physiology requirement or BIOL 4803/4801 Cell and Molecular Biology/Laboratory			2, 6 & 8
4	Additional degree requirement			4 & 5

SENIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
1	BIOL	4001	Seminar in Biology	2 & 6
3	History/Government requirement			1
4	Physiology requirement or BIOL 4803/4801 Cell and Molecular Biology/Laboratory			2, 6 & 8
4	Upper level Biology electives			2, 4 & 6
2	Additional degree requirement			5

120 Total Hours

At least 40 hours must be upper-level

Notes

3. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with the following stipulations: social sciences-students pursuing the biomedical professions concentration must choose one of the following: SOCI 2753, ECON 2803, or ECON 2813; and select one other social science course from list – PSYC 1163 is recommended.
4. These courses are used to determine major courses in residency, see Graduation Requirements.
5. Physics sequence, eight hours. Select one sequence: PHYS 2803/2811 and PHYS 2823/2831 or PHYS 2903/2911 and PHYS 2923/2931.
6. Consult with advisor to select eight hours of upper-level biology electives.
7. Additional degree requirements, 17 hours. Consult with advisor. Students choosing biological science concentration will need nine upper-level hours. Students choosing biomedical professions concentration will need 13 upper-level hours. Select courses to ensure completion of 40 upper-level hours required for graduation.

8. A grade of C or better is required in HIST 3053 and all natural science and mathematics courses taken towards major and concentration requirements.
9. Concentration requirement, 11 hours. Select and complete the courses from one concentration - biological science concentration: BIOL 2303/2301, HIST 3053, and BIOL 3403/3401; or biomedical professions concentration: BIOL 2203/2201, BIOL 2213/2211, and CHEM 3403/3401.
10. Physiology requirement, four hours. Select one of the following courses: BIOL 3814, BIOL 3824, or BIOL 3834.
11. 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.

Pre-professional students in biology 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 biology from UAFS after successfully completing the first year of work in an accredited school of medicine, pharmacy, or veterinary medicine. Students must fulfill all other graduation requirements and complete a graduation application with their adviser before leaving UAFS to begin professional studies. Contact the registrar at registrar@uafs.edu for more information.

BIOLOGY MINOR
MINOR CODE: A001

The minor in biology requires 20 hours of coursework.

REQUIRED 11 HOURS:

BIOL	2003	Introduction to Cell Biology
BIOL	2013	Introduction to Organismal Biology
BIOL	2011	General Biology Laboratory
SELECT ONE COURSE/LABORATORY FROM THE FOLLOWING:		
BIOL	2303 2301	General Botany General Botany Laboratory
BIOL	2703 2701	General Zoology General Zoology Laboratory
BIOL	2503 2501	General Microbiology General Microbiology Laboratory

SELECT NINE HOURS:

Select nine hours of 3000 or 4000-level BIOL courses

Biology with Life Science Teacher Licensure 7 - 12

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3565

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	BIOL	2003	Introduction to Cell Biology	2 & 5
4	CHEM	1403 1401	College Chemistry I College Chemistry I Laboratory	5
3	POLS	2753	American National Government	
1	STEM	1001	College Preparation for STEM Majors	
3	English Composition requirement			1 & 3

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
1	BIOL	2011	General Biology Laboratory	2 & 5
3	BIOL	2013	Introduction to Organismal Biology	2 & 5
4	CHEM	1413 1411	College Chemistry II College Chemistry II Laboratory	5
2	EDUC	2752	Introduction to Education	3
3	STAT	2503	Probability and Statistics I	3 & 5
3	English Composition requirement			1 & 3

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	BIOL	2203 2201	Human Anatomy Human Anatomy Laboratory	2 & 5
4	CHEM	2703 2701	Organic Chemistry I Organic Chemistry I Laboratory	2 & 5
3	SPCH	1203	Introduction to Speech Communication	3
4	Biology requirement			2, 5 & 6

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	BIOL	2213 2211	Human Physiology Human Physiology Laboratory	2 & 5
4	BIOL	3803 3801	Genetics Genetics Laboratory	2 & 5
2	EDUC	3002	Introduction to Educational Technology	
1	FIN	1521	Personal Finance Applications	7
4	Biology requirement			2, 5 & 6

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
4	BIOL	3403 3401	Ecology Ecology Laboratory	2 & 5
4	BIOL	4803 4801	Cell and Molecular Biology Cell and Molecular Biology Laboratory	2 & 5
3	EDUC	3013	Human Development and Learning	4
1	EDUC	3221	Practicum I	4
4	PHYS	2803 2811	College Physics I College Physics I Laboratory	2 & 5

JUNIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	BIOL	4403	Evolutionary Biology	2 & 5
3	HIST	3053	History of Modern Science	2
4	PHYS	2823 2831	College Physics II College Physics II Laboratory	2 & 5
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

SENIOR YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	BIOL	4103	Teaching Science Methods	2 & 5
2	EDUC	3612	Classroom and Behavior Management	4
1	EDUC	4211	Practicum II	4
2	EDUC	4222	Assessment	4
2	SPED	3022	Survey of Diverse Populations	4
3	Fine Arts/Humanities/Social Sciences requirement			1
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-select one from HIST 2753 or 2763 and one other 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 the program.
4. Must be admitted to the School of Education, EPP. EDUC 3013 and 3221 must be taken concurrently as indicated; EDUC 3612, 4211, and 4222 must be taken concurrently as indicated.
5. A grade of C or better is required in all natural science and math courses taken towards degree completion.
6. Biology requirement, eight hours. Select two Laboratory science courses from the following: BIOL 2303/2301, BIOL 2503/2501, and BIOL 2703/2701.
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.

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: CO31

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	CHEM	1403 1401	College Chemistry I College Chemistry I Laboratory	
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 1411	College Chemistry II College Chemistry II Laboratory	2
4	MATH	2854	Calculus II	2
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	CHEM	2703 2701	Organic Chemistry I Organic Chemistry I Laboratory	2
4	PHYS	2903 2911	University Physics I University Physics I Laboratory	2
3	History/Government requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
4	CHEM	2713 2711	Organic Chemistry II Organic Chemistry II Laboratory	2
4	PHYS	2923 2931	University Physics II University Physics II Laboratory	2
3	SPCH	1203	Introduction to Speech Communication	
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Additional degree requirement			5

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	CHEM	3403	Biochemistry I	2
4	CHEM	3604	Analytical Chemistry	2
4	CHEM or CHEM	4504 4704	Physical Chemistry I Inorganic Chemistry	2 & 3
4	World Language requirement			4

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
2	CHEM	3202	Chemical Literature and Seminar	2
4	CHEM or CHEM	4514 4614	Physical Chemistry II Instrumental Analysis	2 & 3
3	HIST	3053	History of Modern Science	

HOURS				NOTES
3	Additional degree requirement			5
3	Additional degree requirement			5

SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	CHEM or CHEM	4504 4704	Physical Chemistry I Inorganic Chemistry	2 & 3
4	Additional degree requirement			5
3	Additional degree requirement			5
3	Additional degree requirement			5

SENIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
4	CHEM or CHEM	4514 4614	Physical Chemistry II Instrumental Analysis	2 & 3
3	CHEM	4903	Special Topics: Chemistry	2
3	Additional degree requirement			5
4	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 this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Courses offered in alternating years. Consult with faculty advisor.
4. World language, four hours. Select any world language
5. Additional Degree Requirements, 26 hours. Consult with faculty advisor. Must select electives so nine hours are upper-level to ensure completion of 40 upper-level hours required for graduation.

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.

Pre-professional students in chemistry 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 from UAFS after successfully completing the first year of work in an accredited school of medicine, pharmacy, or veterinary medicine. Students must fulfill all other graduation requirements and complete a graduation application with their before leaving UAFS to begin professional studies. Contact the registrar at registrar@uafs.edu for more information.

Chemistry with Concentration in Biochemistry

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3011
CONC. CODE: CO30

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	MATH	2804	Calculus I	
4	CHEM CHEM	1403 1401	College Chemistry I College Chemistry I Laboratory	
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 CHEM	1413 1411	College Chemistry II College Chemistry II Laboratory	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 Laboratory	2
4	PHYS or PHYS	2803 2811 2903 2911	College Physics I College Physics I Laboratory University Physics I University Physics I Laboratory	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 Laboratory	2
4	PHYS or PHYS	2823 2831 2923 2931	College Physics II College Physics II Laboratory University Physics II University Physics II Laboratory	2 & 4
4	Additional degree requirement			3
3	Additional degree requirement			3

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	BIOL	3803 3801	Genetics Genetics Laboratory	2
4	CHEM	3403 3401	Biochemistry I Biochemistry I Laboratory	2
3	CHEM	4203	Biophysical Chemistry or additional degree requirement	2, 3 & 5
4	Additional degree requirement			3

JUNIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
4	CHEM	3423 3421	Biochemistry II Biochemistry II Laboratory	2
3	HIST	3053	History of Modern Science	
3	SPCH	1203	Introduction to Speech Communication	

HOURS				NOTES
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Additional degree requirement			3

SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	BIOL	4803 4801	Cell and Molecular Biology Cell and Molecular Biology Laboratory	2
4	CHEM	3604	Analytical Chemistry	2
3	CHEM	4203	Biophysical Chemistry or additional degree requirement	2, 3 & 5
3	History/Government Requirement			1

SENIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
4	BIOL	4604	General Physiology	2
2	CHEM	3202	Chemical Literature and Seminar	2
3	CHEM	4903	Special Topics: Chemistry	2
5	Additional degree requirement			3

120 Total Hours

At least 40 hours must be upper-level

Notes

1. General Education Core Requirements, see Graduation Requirements section of the catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Additional Degree Requirements, 22 hours. Consult with faculty advisor. Five hours of electives must be upper-level to ensure completion of 40 upper-level hours required for graduation.
4. Consult with faculty advisor. Sequence of PHYS 2903/2911 and 2929/2931 is encouraged but some professional programs may accept sequence of PHYS 2803/2811 and 2823/2831.
5. If planning to take CHEM 4504 as an elective, please note it is only offered every other year. Consult with faculty advisor.
6. World language, four hours. Select any world language.

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.

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. Students must fulfill all other graduation requirements and complete a graduation application with their advisor before leaving UAFS to begin professional studies. Contact the registrar at registrar@uafs.edu for more information.

CHEMISTRY MINOR
MINOR CODE: A002

The minor in chemistry requires 24 hours of coursework.

REQUIRED 12 HOURS:

CHEM	1403 1401	College Chemistry I College Chemistry I Laboratory
CHEM	1413 1411	College Chemistry II College Chemistry II Laboratory
CHEM	2703 2701	Organic Chemistry I Organic Chemistry I Laboratory

SELECT 12 HOURS

Must select nine hours of theory and no more than three hours of laboratory:

CHEM 3000 or 4000 series courses

Computer Science

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 1054

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	CS	1093	Computer Science Concepts	2 & 4
4	MATH	2804	Calculus I	
1	STEM	1001	College Prep for STEM Majors	
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	CS	1014	Foundations of Programming I	2 & 4
4	CS	1044	Foundations of Networking	2 & 4
4	MATH	2854	Calculus II	
3	English Composition requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	CS	1024	Foundations of Programming II	2 & 4
3	CS	2053	Foundations of CyberSecurity	2 & 4
1	FIN	1521	Personal Finance Applications	6
3	Computer Science lower-level elective			2 & 3
4	Lab Science requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	CS	2003	Date Structures	2 & 4
3	CS	2033	Web Systems	2 & 4
3	MATH	2443	Discrete Mathematics I	
3	SPCH	1203	Introduction to Speech Communication	
4	Lab Science requirement			1

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	CS	3033	Computer Architecture	2 & 4

HOURS				NOTES
3	CS	3043	Database Systems	2 & 4
3	CS	3103	Algorithms	2 & 4
3	MATH	3303	Discrete Mathematics II	
3	Concentration requirement or CS/MATH/STAT elective			2 & 3

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	CS	3003	Distributed Systems	2 & 4
3	CS	3053	Operating Systems	2 & 4
3	CS	3113	Artificial Intelligence	2 & 4
3	Concentration requirement or CS/MATH/STAT elective			2 & 3
3	Fine Arts/Humanities/Social Sciences requirement			1

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	CS	4003	Software Engineering	2 & 4
3	CS	4033	Ethics and Professional Practice	2 & 4
3	Concentration requirement or CS/MATH/STAT elective			2 & 3
3	History/Government requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

SENIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	CS	4023	Senior Capstone	2 & 4
3	CS	4043	Formal Languages	2 & 4
3	Concentration requirement or CS/MATH/STAT elective			2 & 3
3	MATH/STAT upper-level elective			5
3	Fine Arts/Humanities/Social Sciences requirement			1

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 the following stipulations: lab science – select two from the following: GEOL 1253/1251, CHEM 1403/1401, CHEM 1413/1411, PHYS 2903/2911, or PHYS 2923/2931.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Select one concentration below of nine hours, one CS lower-level elective, and one CS/MATH/STAT upper-level elective with advisor approval.
4. Requires a grade of C or higher.
5. Select a MATH/STAT upper-level elective course with advisor approval.
6. 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.

CYBERSECURITY
CONC. CODE: CO37

SELECT THREE COURSES FROM THE FOLLOWING:

CS	3513	Applied Cryptography
CS	3523	Computer Forensics
CS	4213	Identity Management
CS	4503	CyberOps
CS	4523	Cyber Crimes

DATA SCIENCE AND ARTIFICIAL INTELLIGENCE
CONC. CODE: CO51

SELECT THREE COURSES FROM THE FOLLOWING:

CS	3323	Computer Graphics
CS	3333	Big Data
CS	4143	Deep Learning
CS	4153	Advanced Algorithms
CS	4323	Data Analytics
CS	4333	Machine Learning
CS	4343	Natural Language Processing
CS	4363	Internet of Things Development
CS	4373	Information Retrieval

GENERAL
CONC. CODE: CO39

Select any three upper-level CS elective courses with advisor approval.

COMPUTER SCIENCE MINOR
MINOR CODE: A038

The minor in computer science requires 20 hours of coursework. Student must complete MATH 2804 Calculus I with a C or better prior to declaring the minor. Courses taken in the minor must be completed with a grade of C or better. The minor in computer science is pending approval.

REQUIRED 11 HOURS

CS	1014	Foundations of Programming I
CS	1024	Foundations of Programming II
CS	2033	Data Structures

SELECT NINE HOURS FROM THE FOLLOWING

Any 3000 or 4000 level computer science course

CYBER SYSTEMS
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 1053

HOURS				NOTES
4	CS	1014	Foundations of Programming I	1
4	CS	1024	Foundations of Programming II	
3	CS	1073	Introduction to Mobile Applications	
3	CS	1093	Computer and Information Science Concepts	

14 Total Hours

Notes

1. CS 1014 has a prerequisite of MATH 1403 or exemption by placement score

DATA ANALYTICS
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 1039

HOURS			
3	CS	1303	Introduction to Data Science
3	CS	3333	Big Data
3	CS	2654	Data Analytics
3	CS	4333	Machine Learning

12 Total Hours

Creative Writing

CREATIVE WRITING MINOR
MINOR CODE: A015

The minor in creative writing requires 18 hours of courses. Students must earn a grade of C or higher in all courses counted toward minor. It is not available to students in the creative writing option of the rhetoric and writing major.

REQUIRED 12 HOURS:

RHET	3513	Imaginative Writing	
RHET	3903	Visual Rhetoric	

Select two of the following:

RHET	4113	Fiction Workshop	1
RHET	4133	Script Workshop	1
RHET	4153	Poetry Workshop	1

SELECT SIX HOURS:

RHET	3413	Publications Staff	
RHET	3703	Nonfiction Writing	
RHET	4113	Fiction Workshop	1
RHET	4133	Script Workshop	1
RHET	4153	Poetry Workshop	1
RHET	4173	Special Topics in Creative Writing	2
RHET	4303	The Art of the Essay	
RHET	4953	Writing Internship	

Notes

1. RHET 4113, RHET 4133, and RHET 4153 may be taken once for core and once as an elective with different topics.
2. RHET 4173 may be repeated once for credit provided topics vary.

Crime Scene Investigation

UAFS offers the crime scene investigation degrees to law enforcement officials who successfully complete the indicated courses from the University of Arkansas System's Criminal Justice Institute and successfully complete the indicated general education courses with a cumulative GPA of 2.00 or above.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4095

UAFS REQUIREMENTS - 26 HOURS

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	2
6	English Composition requirement			1
3	Mathematics requirement			1
3	Social Sciences requirement			3
11	General electives			4

CRIMINAL JUSTICE INSTITUTE REQUIREMENTS - 34 HOURS

HOURS			
6	CJI	1216	Law Enforcement Certification
9	CJIC	1019	Crime Scene TCP
12	CJIC	211C	Crime Scene Special Topics
4	CJIC	2104	Advanced CSTC
3	CJIC	2213	Advanced Crime Scene Special Topics

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. May be substituted with computer applications course completed at the CJI.
3. Social sciences requirement, three hours. Select one course from ANTH 2803, HIST 2753 or 2763, HIST 4153, PSYC 1163, or SOCI 2753.
4. General electives, 11 hours. Select from BIOL 1153/1151, BIOL 1433/1431, CJ 1013, LEGL 1043, MGMT 1203, POLS 2753, SPAN 1304, SPCH 1203, and STAT 2503. The following may be used if not taken as social science requirement: ANTH 2803, HIST 2753 or 2763, HIST 4153, PSYC 1163, or SOCI 2753.

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.

CRIME SCENE INVESTIGATION
TECHNICAL CERTIFICATE
MAJOR CODE: 4094

UAFS REQUIREMENTS - 9 HOURS

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	2
3	English Composition requirement			1
3	Mathematics requirement			1

CRIMINAL JUSTICE INSTITUTE REQUIREMENTS - 27 HOURS

HOURS				NOTES
6	CJI	1216	Law Enforcement Certification	
9	CJIC	1019	Crime Scene TCP	

HOURS				NOTES
12	CJIC	211C	Crime Scene Special Topics	

36 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select ENGL 1203 or ENGL 1233.
2. May be substituted with computer applications course completed at the CJI.

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.

CRIME SCENE INVESTIGATION CERTIFICATE OF PROFICIENCY MAJOR CODE: 4093

UAFS REQUIREMENTS - 3 HOURS

HOURS				NOTES
3	English Composition requirement			1

CRIMINAL JUSTICE INSTITUTE REQUIREMENTS - 15 HOURS

HOURS				NOTES
9	CJIC	1019	Crime Scene TCP	
6	CJI	1216	Law Enforcement Certification	

18 Total Hours

Notes

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

Criminal Justice

BACHELOR OF SCIENCE (BS) DEGREE MAJOR CODE: 4097

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	CJ	1013	Introduction to the Criminal Justice System	2
3	SOCI	2753	Introduction to Sociology	
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1
3	Mathematics requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	CJ	1253	Criminology	2
3	CJ	2003	Introduction to Criminal Law	2
3	STAT	2503	Probability and Statistics I	
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	PSYC	1163	General Psychology	
3	Fine Arts/Humanities requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 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
1	FIN	1521	Personal Finance Applications	6
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 & 3

JUNIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
3	Upper-level Criminal Justice elective			2 & 3
3	Upper-level Criminal Justice elective			2 & 3
3	Upper-level Criminal Justice elective			2 & 3
3	Upper-level History/Government elective			4
2	Elective			4

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	CJ	3983	Introduction to Research Methods	2
3	CJ	4113	Professionalism and Ethics in Criminal Justice	2
3	Upper-level Criminal Justice elective			2 & 3
3	Upper-level Humanities elective			4
3	Elective			4

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	CJ	4963	Criminal Justice Capstone	2
3	Upper-level Criminal Justice elective			2 & 3
3	Upper-level Criminal Justice elective			2 & 3
3	Elective			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.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Upper-level Criminal Justice electives, 21 hours. Confer with faculty advisor and consult course catalog for prerequisites
4. Electives, 14 hours; at least 10 must be upper-level. In consultation with faculty advisor, select three hours of upper-level humanities, three hours of upper-level history/ government, and four hours of upper-level free electives. The remaining four hours may be upper- or lower-level hours.
5. Must complete four hours of a world language.
6. 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.

Program requirements - must earn a grade of C or better in all criminal justice courses applied toward degree.

CRIMINAL JUSTICE MINOR
MINOR CODE: AO17

The minor in criminal justice requires 18 hours of coursework. Each course taken in the minor must be completed with a grade of C or better. Students may declare a minor after the successful completion of SOCI 2753 Introduction to Sociology.

REQUIRED NINE HOURS:

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

ADDITIONAL NINE HOURS:

Select any nine hours from CJ 3000/4000 level courses

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4096

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	CJ	1013	Introduction to the Criminal Justice System	2
3	SPCH	1203	Introduction to Speech Communication	
3	SOCI	2753	Introduction to Sociology	
3	English Composition requirement			1
3	Mathematics requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	CJ	1253	Criminology	2
3	CJ	2003	Introduction to Criminal Law	2
3	ITA	1003	Computer Applications for the Knowledge Worker	
3	English Composition requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	CJ	2313	Correctional Systems and Practices	2
3	CJ	2403	Legal Aspects of Law Enforcement	2
3	CJ	2603	Courts and Criminal Procedure	2
3	HLTH	2953	First Aid	
3	POLS	2753	American National Government	

SOPHOMORE YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
3	CJ	2373	Police Systems and Practices	2
4	CJ	2504	Criminalistics: An Introduction to Forensic Science	2
3	CJ	2513	Juvenile Delinquency and Juvenile Justice	2
1	FIN	1521	Personal Finance Applications	3
3	POLS	2853	State and Local Government	

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements of this catalog. Student must maintain a 2.0 GPA in these courses.
3. 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.

Diversity Studies

DIVERSITY STUDIES MINOR
MINOR CODE: TBD - PENDING APPROVAL FROM AHECB

The minor in diversity studies requires 18 hours of coursework. Each course taken in the minor must be completed with a grade of C or better. Students may declare a minor after the successful completion of SOCI 2753 Introduction to Sociology.

CORE REQUIREMENTS 6 HOURS

DVST	2003	Introduction to Diversity Studies
ANTH	2803	Cultural Anthropology

ADDITIONAL REQUIREMENTS 12 HOURS

Select 12 hours from the list below. No more than 6 hours can be used from the same discipline prefix. Courses other than those listed may be approved by the coordinator of the diversity studies minor in conjunction with the department head in which the course is offered.

ANTH 3023 Diversity Through Historical Archaeology
CJ 3023 Child Maltreatment
CJ 3033 Hate Crimes
ENGL 3443 Literature of Diverse Cultures
ENGL 3453 Women and Literature
FORL 3503 Languages of the World
FORL 4343 Teaching People of Other Cultures
HIST 3503 History of Latin America: The Republican Period
HIST 4123 African American History to 1865
HIST 4133 African American History since 1865
HIST 4163 The Native American and the United States
HIST 4213 Perspectives of Women in World History
HIST 4223 Early American Women's History
HIST 4233 Modern American Women's History
MCOM 4203 Intercultural Communication
MCOM 4303 Social Media and Globalism
PHIL 3303 Philosophy of the Human Person
PHIL 3403 Philosophy of Religion
POLS 3103 Comparative Political Institutions
POLS 3153 International Relations
POLS 4813/SOCI 4813 Global Studies
PSYC 4823 Psychology of Human Sexuality
SOCI 3013 Sex and Gender
SOCI 3113 Race, Ethnicity, and Indigeneity
SOCI 3193 Inequality, Poverty, and Mobility
SOCI 3263 Marriage, Family, and Kinship
SOCI 3283 Death, Dying, Ageing, and Ability
SOWK 3413 Diversity and Social Economic Justice
SOWK 3433 Populations at Risk
SPAN 3053 Cultural Readings
SPAN 4053 Topics in Culture

Engineering Program

The College of Arts and Sciences offers baccalaureate engineering programs in collaboration with the University of Arkansas, Fayetteville. These programs lead to the bachelor of science in mechanical engineering (BSME) and the bachelor of science in electrical engineering (BSEE). UAFS faculty deliver the freshman and sophomore courses charging UAFS tuition and fees. The junior- and senior-level courses are delivered by University of Arkansas, Fayetteville faculty on the UAFS campus, charging the University of Arkansas, Fayetteville tuition and fees (some classes may be delivered by compressed video). Admission to University of Arkansas, Fayetteville is required prior to enrolling in the junior- and senior-level classes. The baccalaureate degree is granted by University of Arkansas, Fayetteville.

The College of Arts and Sciences also offers the associate of science in engineering (ASE) with a concentration in electrical or mechanical engineering. The ASE is designed to parallel the first two years of engineering programs at most universities and facilitates students transferring into a bachelor of engineering program with junior standing, with the addition of one or two courses.

Engineering graduates must have a background of sound mathematics, scientific, and economic principles and must be acquainted with industrial principles and practices in their chosen fields before they can assume responsibility in the profession. Many engineering graduates become managers and leaders in the public and private sectors because of the problem-solving skills that were developed as part of an engineering education.

The freshman curriculum stresses a basic foundation in mathematics, physics, and chemistry, which will be required in later years. The sophomore, junior, and senior years emphasize industrial applications of classroom and Laboratory work. By the selection of electives, a student can concentrate in depth in a particular subject, have the flexibility to study several subjects, and minor in an area of interest. Provision is made for electives in the humanities and social sciences as a means of providing a well-rounded education.

Engineering students follow essentially the same schedule of courses during the freshman year regardless of the intended field of specialization. Certain courses normally taken in the first year comprise the pre-professional curriculum.

UAFS students will declare the ASE upon admission to UAFS. Students will declare the BSEE or BSME only after acceptance into the engineering program at the University of Arkansas, Fayetteville.

Electrical Engineering

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING DEGREE MAJOR CODE: 9072

Student will declare the BSEE only after acceptance in the engineering program at the University of Arkansas, Fayetteville.

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				
3	CHEM	1403	College Chemistry	
1	ENGN	1111	Introduction to Engineering I	
4	MATH	2804	Calculus I	
3	English Composition requirement			1
3	History/Government requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
1	ENGN	1121	Introduction to Engineering II	
4	MATH	2854	Calculus II	
4	PHYS	2903 2911	University Physics I University Physics I Lab	
3	English Composition requirement			1
3	Fine Arts/Humanities requirement			2

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	ELEG	2103 2101	Electric Circuits I Electric Circuits I Lab	
3	ELEG	2903	Digital Systems I	
4	MATH	2904	Calculus III	
4	PHYS	2923 2931	University Physics II University Physics II Lab	

SOPHOMORE YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
4	ELEG	2113 2111	Electric Circuits II Electric Circuits II Lab	
3	ELEG	2913	Digital Systems II	
4	ITC	1374	Programming for Engineers	
3	SPCH	1203	Introduction to Speech Communication	
3	Fine Arts/Humanities requirement			2

Admission to UA Fayetteville (both the institution and the College of Engineering) is required prior to enrolling in the junior and senior level classes. See UA Fayetteville College of Engineering for official degree plan.

JUNIOR YEAR FALL SEMESTER - 16 HOURS

HOURS			
4	ELEG	3124	Systems and Signals Analysis with Lab
4	ELEG	3214	Electronics with Lab
4	ELEG	3704	Applied Electromagnetics with Lab
4	ELEG	3924	Microprocessor System Design with Lab

JUNIOR YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
3	ELEG	3143	Probability & Stochastic Processes	
4	ELEG	3224	Electronics II with Lab	
4	ELEG	3304	Energy Systems with Lab	
3	Math/Science/Technical elective			3
3	Social Sciences requirement			2

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	ECON	2803	Principles of Macroeconomics	
3	ELEG	4063	Electrical Engineering Design I	
3	Electrical Engineering Technical elective			3
3	Electrical Engineering Technical elective			3
3	Engineering Science elective			3

SENIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
1	ELEG	4071	Electrical Engineering Design II	
3	Electrical engineering technical upper-level elective			3
3	Technical upper-level elective			3
3	Technical upper-level elective			3
3	Fine Arts requirement			2
3	Social Sciences requirement			2

125 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements in this catalog.
2. Fine Arts, Humanities, Social Sciences. Consult with UA Fayetteville faculty advisor.
3. Upper-level electives. Consult with UA Fayetteville faculty advisor.

ASSOCIATE OF SCIENCE IN ENGINEERING DEGREE - ELECTRICAL ENGINEERING CONCENTRATION
MAJOR CODE: 3020
CONCENTRATION CODE: C049

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	CHEM	1403	College Chemistry I	2
1	ENGN	1111	Introduction to Engineering I	2
4	MATH	2804	Calculus I	
3	English Composition requirement			1
3	History/Government requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
1	ENGN	1121	Introduction to Engineering II	2
4	MATH	2854	Calculus II	2
4	PHYS	2903 2911	University Physics I University Physics I Laboratory	
3	English Composition requirement			1
3	Fine Arts/Humanities requirement			1

SOPHOMORE YEAR FALL SEMESTER - 18 HOURS

HOURS				NOTES
4	ELEG	2103 2101	Electric Circuits I Electric Circuits I Laboratory	2
3	ELEG	2903	Digital Systems I	2
4	MATH	2904	Calculus III	2
4	PHYS	2923 2931	University Physics II University Physics II Laboratory	
3	SPCH	1203	Introduction to Speech Communication	

SOPHOMORE YEAR SPRING SEMESTER - 18 HOURS

HOURS				NOTES
4	ELEG	2113 2111	Electric Circuits II Electric Circuits II Laboratory	2
3	ELEG	2913	Digital Systems II	2
4	ITC	1374	Programming for Engineers	2
4	MATH	2914	Differential Equations	2
3	Fine Arts/Humanities requirement			1

65 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency.

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.

Mechanical Engineering

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING DEGREE
MAJOR CODE: 9074

Student will declare the BSME only after acceptance in the engineering program at the University of Arkansas, Fayetteville. See UA Fayetteville College of Engineering for official degree plan.

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	CHEM	1403	College Chemistry I	
1	ENGN	1111	Introduction to Engineering I	
4	MATH	2804	Calculus I	
3	English Composition requirement			1
3	History/Government requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
1	ENGN	1121	Introduction to Engineering II	
4	MATH	2854	Calculus II	
4	PHYS	2903 2911	University Physics I University Physics I Lab	
3	English Composition requirement			1
3	Fine Arts/Humanities requirement			1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
2	CGT	1302	Graphics for Engineers	
3	ENGN	2753	Engineering Statics	
4	MATH	2904	Calculus III	
3	MEEG	2303	Introduction to Materials	
4	PHYS	2923 2931	University Physics II University Physics II Lab	

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	ENGN	2763	Engineering Dynamics	
3	ENGN	2803	Thermodynamics	
3	MEEG	2103	Introduction to Machine Analysis	
3	SPCH	1203	Introduction to Speech Communication	
3	Fine Arts/Humanities requirement			

Admission to UA Fayetteville (both the institution and the College of Engineering) is required prior to enrolling in the junior and senior level classes.

JUNIOR YEAR FALL SEMESTER - 17 HOURS

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

JUNIOR YEAR SPRING SEMESTER - 18 HOURS

HOURS				NOTES
3	ELEG	3933	Engineering Electronics	
2	MEEG	3212	Mechanical Engineering Lab II	
4	MEEG	4104	Machine Element Design	
3	MEEG	4413	Heat Transfer	
3	Fine Arts/Humanities/Social Sciences requirement			2
3	Technology or science elective			3

SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
1	MEEG	4131	Creative Project I	
2	MEEG	4132	Professional Engineering Practice	
2	MEEG	4202	Mechanical Engineering Lab III	
3	MEEG	4483	Thermal Systems Analysis & Design	
3	Mechanical engineering elective			3
3	Fine Arts/Humanities/Social Sciences requirement			2

SENIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	MEEG	4133	Creative Project Design II	
6	Technology or science elective			3
3	Fine Arts/Humanities/Social Sciences requirement			2
3	Fine Arts/Humanities/Social Sciences requirement			2

127 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements in this catalog.
2. Fine Arts, Humanities, Social Sciences. Consult with UA Fayetteville faculty advisor.
3. Upper-level electives. Consult with UA Fayetteville faculty advisor.

ASSOCIATE OF SCIENCE IN ENGINEERING DEGREE - MECHANICAL ENGINEERING CONCENTRATION
MAJOR CODE: 3020
CONCENTRATION CODE: C050

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	CHEM	1403	College Chemistry I	2
1	ENGN	1111	Introduction to Engineering I	2
4	MATH	2804	Calculus I	
3	English Composition requirement			1
3	History/Government requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
1	ENGN	1121	Introduction to Engineering II	2
4	MATH	2854	Calculus II	2
4	PHYS	2903 2911	University Physics I University Physics I Laboratory	
3	English Composition requirement			1
3	Fine Arts/Humanities requirement			1

SOPHOMORE YEAR FALL SEMESTER - 18 HOURS

HOURS				NOTES
3	ENGN	2753	Engineering Statics	2
4	MATH	2904	Calculus III	2

HOURS				NOTES
1	MEEG	2001	CAD for Engineering	2
2	MEEG	2303	Introduction to Materials	2
3	MEEG	2703	Numerical Methods I	2
4	PHYS	2923 2931	University Physics II University Physics II Laboratory	

SOPHOMORE YEAR SPRING SEMESTER - 19 HOURS

HOURS				NOTES
3	ENGN	2763	Dynamics	2
3	ENGN	2803	Thermodynamics	2
4	MATH	2914	Differential Equations	2
3	MEEG	2103	Introduction to Machine Analysis	2
3	SPCH	1203	Introduction to Speech Communication	
3	Fine Arts/Humanities requirement			1

66 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency.

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.

English

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2545

FRESHMAN YEAR FALL SEMESTER - 13 HOURS

HOURS		NOTES
3	English Composition requirement	1
3	Mathematics requirement	1
3	History/Government requirement	1
4	World Language requirement	6

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	7
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
4	World Language requirement			6
1	Additional degree requirement			5

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	ENGL	2113	Introduction to Literary and Cultural Studies	2
3	RHET	3203	Textual Research Methods	2
3	English requirement			2 & 4
3	Fine Arts/Humanities/Social Sciences requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS		NOTES
3	Core English course	2 & 3
3	Fine Arts/Humanities/Social Sciences requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
4	Lab Science requirement	1
3	Additional degree requirement	5

JUNIOR YEAR FALL SEMESTER - 15 HOURS

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

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

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

SENIOR YEAR FALL SEMESTER - 15 HOURS

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

SENIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS		NOTES
3	English requirement	2 & 4
3	Additional degree requirement	5
3	Additional degree requirement	5
3	Additional degree requirement	5
3	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.
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, six hours. Select one course from ENGL 3013 or 3023 and one course from ENGL 3033 or 3043.
4. English requirements, 18 hours. Language and Linguistics: select one course from ENGL 3003, ENGL 3663, or Intermediate I of a world language; Major Author: select one course from ENGL 4203 or 4213; Period: select one pre-1800 and one post-1800 ENGL course at the 4000-level. Pre-1800 courses include ENGL 4223, 4773, 4203 (if not taken to satisfy Major Author requirement), or 4213 (if not taken to satisfy Major Author requirement); other courses may be used to satisfy this requirement per departmental consent. Post-1800 courses include ENGL 4243 or 4793; other courses may be used to satisfy this requirement per departmental consent. English electives: select any additional six hours of 2000-4000 level ENGL courses, excluding ENGL 2013 and 2023.
5. Additional degree requirement, 40 hours. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed. Select courses to ensure completion of 40 upper-level hours required for graduation.
6. World Language, eight hours. Must complete through Beginning II of a world language.
7. 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.

ENGLISH MINOR
MINOR CODE: A003

The minor in English requires 18 hours of coursework. Students must earn a grade of C or higher in all courses counted toward minor.

REQUIRED SIX HOURS:

ENGL	2113	Introduction to Literary and Cultural Studies
RHET	3203	Textual Research Methods

SELECT SIX HOURS:

ENGL	3013	Seminar: British Literature I
ENGL	3023	Seminar: British Literature II
ENGL	3033	Seminar: American Literature I
ENGL	3043	Seminar: American Literature II

SELECT SIX HOURS:

ENGL 3000 or 4000 level courses

English with Teacher Licensure 7-12

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3576

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	English Composition requirement			1 & 5
3	Fine Arts/Humanities/Social Sciences requirement			1
3	History/Government requirement			1
4	Lab Science requirement			1
3	Mathematics requirement			1 & 5

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	SPCH	1203	Introduction to Speech Communication	5
3	English Composition requirement			1 & 5
4	Lab Science requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	ENGL	2113	Introduction to Literary and Cultural Studies	2
3	ENGL	3663	English Grammar	2
3	RHET	3203	Textual Research Methods	2
3	Core English course			2 & 3
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
2	EDUC	2752	Introduction to Education	5
2	EDUC	3002	Introduction to Educational Technology	
3	ENGL	3003	History and Development of the English Language	2
3	ENGL	3443	Literature of Diverse Cultures	2
3	ENGL/ FORL	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

HOURS				NOTES
3	Core English course			2 & 3
3	English requirement			2 & 4
3	English requirement			2, 4 & 7
3	Elective			8
3	Elective			8

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	EDUC	3013	Human Development and Learning	6
1	EDUC	3221	Practicum I	6
2	EDUC	4222	Assessment	6
3	ENGL ENGL	3203 3303	Young Adult Literature or Writing and the Teaching of Writing	2
3	Core English course			2 & 3
3	English requirement			2, 4 & 7

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
2	EDUC	3612	Classroom and Behavioral Management	6
1	EDUC	4211	Practicum II	6
3	ENGL	4993	Capstone	2
3	ENGL ENGL	3203 3303	Young Adult Literature or Writing and the Teaching of Writing	2
1	ENGL	4911	Seminar in Applied Literacy Pedagogy	2
2	SPED	3022	Survey of Diverse Populations	6
3	English requirement			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 catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Core English courses, 12 hours. Must take ENGL 3013, 3023, 3033, and 3043.
4. English requirements, 12 hours. Period and Genre: select two courses from ENGL 3223, 3233, 3243, 3343, 4123, 4223, 4243, 4773, or 4793; Cultural Studies: select one course from ENGL 3453, 4103, 4203, 4813, 4903, or 4913; Major Author study: must take ENGL 4213.
5. 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.
6. Must be admitted to the School of Education Educator Preparation Program.
7. Students must take ENGL 4213 in the junior year fall or junior year spring semester
8. Electives, six hours. Select in consultation with advisor. Must include FIN 1521 Personal Finance Applications - 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

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.

Geographic Information Systems

GEOGRAPHIC INFORMATION SYSTEMS MINOR
MINOR CODE: A040

The minor geographic information systems requires 20 hours of coursework. All courses must be completed with a grade of C or better.

REQUIRED NINE HOURS

UAS	1003	Introduction to GIS
UAS	1203	GPS GNSS Fundamentals
UAS	2003	GIS Analysis

ADDITIONAL 11 HOURS:

GEOL	4023	Applied Geographic Information Systems
Eight hours of upper-level (3000-4000) science electives (only one hour can be lab)		

Geoscience

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3059

PROFESSIONAL CONC. CODE: C072
ENVIRONMENTAL CONC. CODE: C073

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	CHEM	1403 1401	College Chemistry I College Chemistry I Laboratory	
3	CS	1093	Computer and Information Science Concepts	2
4	GEOL or GEOL	1253 1251 2653 2651	Physical Geology Physical Geology Laboratory Earth Science Earth Science Laboratory	2
1	STEM	1001	College Preparation for STEM Majors	
3	English Composition requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	CHEM	1413 1411	College Chemistry II College Chemistry II Laboratory	
4	GEOL	2263 2261	Historical Geology Historical Geology Laboratory	2
4	MATH	2804	Calculus I	
3	English Composition requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	4
3	GEOL	2003	Geoscience Seminar	2
4	PHYS or PHYS	2803 2811 2903 2911	College Physics I College Physics I Laboratory University Physics I University Physics I Laboratory	2
3	UAS	1103	Introduction to GIS	2
3	Fine Arts/Humanities/Social Sciences requirement			1
1	Elective			

SOPHOMORE YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
4	GEOL	3014	Geological Field Methods	2
4	PHYS or PHYS	2823 2831 2923 2931	College Physics II College Physics II Laboratory University Physics II University Physics II Laboratory	2
3	SPCH	1203	Introduction to Speech Communication	
3	Fine Arts/Humanities/Social Sciences requirement			1

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	GEOL	2313 2311	Minerals and Rocks Minerals and Rocks Laboratory	2
4	GEOL	3404	Structural Geology	2
4	GEOL	4104	Sedimentary Deposition	2
3	Fine Arts/Humanities/Social Sciences requirement			1

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	GEOL	3504	Petrology	2
4	GEOL	4124	Sedimentary Stratigraphy	2
4	Concentration requirement			2 & 3
3	Fine Arts/Humanities/Social Sciences requirement			1

SUMMER - 0-6 HOURS

HOURS				NOTES
6	GEOL	4406	Summer Field Geology (professional concentration only)	2

SENIOR YEAR FALL SEMESTER - 14-17 HOURS

HOURS		NOTES
3	Concentration requirement (environmental concentration only)	2 & 3
3	Concentration requirement	2 & 3
4	Concentration requirement	2 & 3
4	Concentration requirement	2 & 3
3	History/Government requirement	1

SENIOR YEAR SPRING SEMESTER - 11-14 HOURS

HOURS		NOTES
3	Concentration requirement (environmental concentration only)	2 & 3
3	Concentration requirement	2 & 3
4	Concentration requirement	2 & 3
4	Concentration requirement	2 & 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 in this catalog. A grade of C or better is required in all courses in the major.
3. Concentration requirement, 32 hours. In consultation with advisor, select either the professional concentration or the environmental concentration. See requirements below.
4. 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.

PROFESSIONAL CONCENTRATION 32 HOURS
CONC. CODE:

4	GEOL	4214	Invertebrate Paleontology
6	GEOL	4406	Summer Field Geology
10	Upper-level (3000-4000) GEOL courses		
12	Electives		

ENVIRONMENTAL CONCENTRATION 32 HOURS
CONC. CODE:

4	CHEM	2703 2701	Organic Chemistry I Organic Chemistry I Laboratory
3	GEOL	3833	Environmental Geology
3	GEOL	4023	Applied Geographic Information Systems
4	GEOL	4304	Environmental Geochemistry
3	UAS	1203	GPS GNSS Fundamentals
3	UAS	2003	GIS Analysis
10	Upper-level (3000-4000) GEOL courses		
2	Electives		

GEOSCIENCE MINOR
MINOR CODE: A025

The minor in geoscience requires 18 hours of coursework. All courses must be completed with a grade of C or better.

REQUIRED EIGHT HOURS:

SELECT ONE OF THE FOLLOWING:		
GEOL	2313 2311	Minerals and Rocks Minerals and Rocks Laboratory
GEOL	2263 2261	Historical Geology Historical Geology Laboratory
SELECT ONE OF THE FOLLOWING:		
GEOL	1253 1251	Physical Geology Physical Geology Laboratory
GEOL	2653 2651	Earth Science Earth Science Laboratory

SELECT 10 HOURS:

Any 3000- or 4000-level GEOL courses

Graphic Design

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 4063

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	ART	1103	2D Design	2 & 3
3	ART	1113	Drawing	2 & 3
3	ART	1123	Digital Imaging	2 & 3

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	8
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	ART	1133	Introduction to Typography	2 & 3
3	ART	1143	3D Design	2 & 3
1	ART	1551	Admissions Portfolio	2 & 3
3	English Composition requirement			1
3	Humanities/Social Science requirement			1
3	Mathematics requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	AHIS	2863	Art History Survey I	2 & 7
3	GRDS	2303	Graphic Design	2
3	GRDS	2243	Digital Illustration	2
3	ART/GRDS lower-level elective			2 & 5
3	Humanities/Social Science requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	AHIS	2873	Art History Survey II	2 & 7
3	AHIS	3863	History of Graphic Design	2
3	GRDS	2103	Advanced Typography	2
3	GRDS	2253	Interactive Design	2
3	GRDS	2343	Print & Publication Design	2

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	ART	3313	Advanced Drawing	2
3	GRDS	3273	Motion Design	2
3	GRDS	3403	Advertising Design I	2
4	Lab Science requirement			1
2	Elective			4

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	GRDS	3323	Production Management/Prepress	2
3	GRDS	3603	Packaging Design	2
3	ART/GRDS/AHIS upper-level elective			2 & 6
3	AHIS upper-level requirement			2
3	History/Government requirement			1

SENIOR YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	GRDS	3243	Interactive Development	2
3	GRDS	4313	Identity Design	2
3	GRDS	4933	Graphic Design Senior Thesis	2
4	Lab science requirement			1
3	Electives			4

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	GRDS	4623	Graphic Design Business Practices	2
3	ART/GRDS/AHIS upper-level elective			2 & 6
3	ART/GRDS/AHIS upper-level elective			2 & 6
3	Humanities/Social Sciences requirement			1

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 will be used to determine major courses in residency, see Graduation Requirements section of catalog. A grade of C or better is required in ART, AHIS, and GRDS courses. A cumulative GPA of 2.75 is required in all courses toward the major.
3. Foundations requirement in graphic design. The degree plan shows the suggested course sequence. ART 1551 must be passed before enrolling in 2000 level or higher ART and GRDS courses.
4. Electives, five hours. Select in consultation with advisor.
5. Lower-level GRDS/ART elective, three hours: select one course from ART or GRDS 2000-level courses.
6. Upper-level GRDS/ART/AHIS elective, nine hours: Select from AHIS, ART or GRDS 3000- or 4000-level courses.
7. Students are strongly recommended to take AHIS 2863 before AHIS 2873.
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.

History

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2565

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	English Composition requirement			1
3	Mathematics requirement			1
4	Lab Science requirement			1
3	HIST HIST	1123 1133	Civilizations of the World to 1500 or Civilizations of the World since 1500	2
3	HIST HIST	2753 2763	United States History I or United States History II	2

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	English Composition requirement			1
3	HIST HIST	1123 1133	Civilizations of the World to 1500 or Civilizations of the World since 1500	2
3	HIST HIST	2753 2763	United States History I or United States History II	2

HOURS				NOTES
3	Fine Arts/Humanities/Social Sciences requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	Fine Arts/Humanities/Social Sciences requirement			1
4	World Language requirement			5
3	POLS	2753	American National Government	
3	SPCH	1203	Introduction to Speech Communication	
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	Fine Arts/Humanities/Social Sciences requirement			1
3	History requirement			2 & 3
4	World Language requirement			5
3	Additional degree requirement			4
3	Additional degree requirement			4

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	History requirement			2 & 3
3	History requirement			2 & 3
3	World Language requirement			5
3	Additional degree requirement			4
3	Additional degree requirement			4

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	HIST	4503	Public History	2
3	History requirement			2 & 3
3	History requirement			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4

SENIOR YEAR FALL SEMESTER - 12 HOURS

HOURS				NOTES
3	HIST	3803	Methods of Historical Research	2
3	History requirement			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4

SENIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
3	HIST	4803	Seminar in United States History	2
3	History requirement			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4
2	Additional degree requirement			4

120 Total Hours

At least 40 hours must be upper-level

Notes

1. General Education Core Requirements, see Graduation Requirements section of the catalog. Follow requirements with the following stipulations: social sciences-select two courses from ANTH 2803, ECON 2803 or 2813, GEOG 2753 or GEOG 2773, PSYC 1163, SOCI 2753.
2. These courses will be used to determine major courses in residency, see Graduation Requirements. Student must make a C or higher in each course to meet graduation requirements of history department.
3. History requirements, 21 hours: global history, six hours from the 3000, 3500, 3600, 4200, or 4300 series; European history, three hours from the 3100, 3200, or 3300 series; United States history, nine hours from the 3400 or 4100 series. One additional three hour upper-level HIST elective, consult with faculty advisor.
4. Additional degree requirements, 32 hours. Consult with faculty advisor. A minor of at least 18 hours is required plus 14 hours of electives. Two one-hour or one two-hour elective may be used to complete the 14 hours. Must take a minimum of 10 hours of upper-level to ensure completion of 40 upper-level hours for graduation.
5. World language requirement, 11 hours. Must complete through Intermediate I of a world language.

The department requires all history courses counted toward fulfillment of the degree requirements to be passed with a 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.

HISTORY MINOR
MINOR CODE: A004

The minor in History requires 18 hours of courses. Each course must be completed with a grade of C or better.

REQUIRED NINE HOURS:

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

SELECT THREE HOURS OF UNITED STATES HISTORY:

HIST	3400 or 4100 series

SELECT SIX HOURS OF WORLD HISTORY:

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

History with Social Studies Teacher Licensure 7-12

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3574

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	HIST HIST	2753 2763	United States History I or United States History II	2

HOURS				NOTES
3	MATH	1403	College Algebra or higher	4
3	SPCH	1203	Introduction to Speech Communication	4
3	English Composition requirement			1 & 4
4	Lab Science requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	HIST HIST	2753 2763	United States History I or United States History II	2
3	PSYC	1163	General Psychology	
4	SPAN	1304	Beginning Spanish I	
3	English Composition requirement			1 & 4
3	Fine Arts/Humanities requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
2	EDUC	2752	Introduction to Education	4
3	HIST	1123	Civilizations of the World to 1500	2
3	POLS	2753	American National Government	
4	Lab Science requirement			1
3	Fine Arts/Humanities requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
3	ECON	2803	Principles of Macroeconomics	
2	EDUC	3002	Introduction to Educational Technology	
3	HIST	1133	Civilizations of the World since 1500	2
3	SOCI	2753	Introduction to Sociology	
3	Social Studies/History requirement			2 & 3
3	Social Studies/History requirement			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 - 14 HOURS

HOURS				NOTES
3	ECON	2813	Principles of Microeconomics	
2	EDUC	4222	Assessment	5
3	HIST	4153	History of Arkansas	2
3	Social Studies/History requirement			2 & 3
3	Social Studies/History requirement			2 & 3

JUNIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	EDUC	3013	Human Development and Learning	5
1	EDUC	3221	Practicum I	5
3	HIST	3803	Methods of Historical Research	2
3	HIST	4823	Teaching Social Studies in the Secondary School	2
3	Social Studies/History requirement			2 & 3

HOURS				NOTES
3	Social Studies/History requirement			2 & 3

SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
2	EDUC	3612	Classroom and Behavioral Management	5
1	EDUC	4211	Practicum II	5
3	HIST	4803	Seminar in US History	2
2	SPED	3022	Survey of Diverse Populations	5
3	Social Studies/History requirement			2 & 3
3	Social Studies/History requirement			2 & 3

SENIOR YEAR SPRING SEMESTER - 12 HOURS

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

120 Total Hours

At least 40 of the 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 section of this catalog.
3. Social studies and history requirements, 24 hours. Social studies: POLS 2853 and GEOG 2753 are required and select six upper-level hours from two different disciplines in GEOG, POLS, PSYC, or SOCI with advisor approval. Select six hours from United States history 3400 or 4100 series courses, or HIST 4903. Select three hours from global history in 3000, 3100, 3200, 3300, 3500, 3600, 4200, 4300 series courses, or HIST 4903. Select three hours from the following: HIST 3053, 3063, 3103, 3203, 3213, or 4903.
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 of Arkansas System's Criminal Justice Institute and successfully complete the indicated general education courses with a cumulative GPA of 2.00 or above.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4092

UAFS REQUIREMENTS - 24 HOURS

HOURS				NOTES
6	English Composition requirement			1
3	Mathematics requirement			1
3	ITA	1003	Computer Applications for the Knowledge Worker	2
3	POLS	2753	American National Government	
3	PSYC	1163	General Psychology	
3	SOCI	2753	Introduction to Sociology	
3	SPCH	1203	Introduction to Speech Communication	

CRIMINAL JUSTICE INSTITUTE REQUIREMENTS - 36 HOURS

HOURS			
9	CJIL	1019	Law Enforcement Supervision
6	CJI	1216	Law Enforcement Certification
6	CJIL	1406	Law Enforcement Administration and Management
3	CJIL	1423	Integrity in Law Enforcement
3	CJIL	2313	Legal Aspects of Law Enforcement
3	CJIL	2343	Law Enforcement Communication
6	CJIL	2416	Advanced Law Enforcement Special Topics

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. May be substituted with computer applications course completed at the CJI.

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.

LAW ENFORCEMENT ADMINISTRATION
TECHNICAL CERTIFICATE
MAJOR CODE: 4091

UAFS REQUIREMENTS - 15 HOURS

HOURS				NOTES
3	English Composition requirement			1
3	Mathematics requirement			1
3	ITA	1003	Computer Applications for the Knowledge Worker	2
3	MGMT	1203	Foundations of Business	
3	SPCH	1203	Introduction to Speech Communication	

CRIMINAL JUSTICE INSTITUTE REQUIREMENTS - 21 HOURS

HOURS			
6	CJI	1216	Law Enforcement Certification
6	CJIL	1406	Law Enforcement Administration and Management
3	CJIL	2343	Law Enforcement Communication
6	CJIL	2416	Advanced Law Enforcement Special Topics

36 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select ENGL 1203 or ENGL 1233.
2. May be substituted with computer applications course completed at the CJI.

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.

LAW ENFORCEMENT ADMINISTRATION
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4090

UAFS REQUIREMENTS - 3 HOURS

HOURS		NOTES
3	English Composition requirement	1

CRIMINAL JUSTICE INSTITUTE REQUIREMENTS - 15 HOURS

HOURS			
6	CJI	1216	Law Enforcement Certification
6	CJIL	1406	Law Enforcement Administration and Management
3	CJIL	2343	Law Enforcement Communication

18 Total Hours

Notes

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

Mathematics

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3063

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	MATH	2804	Calculus I	
3	STAT	2503	Probability and Statistics I	2
1	STEM	1001	College Prep for STEM Majors	
3	English Composition requirement			1

HOURS				NOTES
3	History/Government requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	CS	1014	Foundations of Programming I	
1	FIN	1521	Personal Finance Applications	5
3	MATH	2443	Discrete Mathematics I	2
4	MATH	2854	Calculus II	2
3	English Composition requirement			1

SOPHOMORE YEAR FALL SEMESTER - 17 HOURS

HOURS				NOTES
4	MATH	2904	Calculus III	2
4	MATH	3104	Foundations of Mathematics	2
3	SPCH	1203	Introduction to Speech Communication	
3	STAT	3503	Mathematical Statistics I	2
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	MATH	3203	Applied Linear Algebra	2
3	MATH	3403	College Geometry	2
4	PHYS	2903 2911	University Physics I University Physics I Laboratory	
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Additional degree requirement			4

JUNIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	MATH	2914	Differential Equations	2
3	MATH	4303	Real Analysis I	2
4	PHYS	2923 2931	University Physics II University Physics II Laboratory	
3	Fine Arts/Humanities/Social Sciences requirement			1

JUNIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
1	MATH	3901	Mathematics Seminar	2
3	MATH	4403	Abstract Algebra	2
3	Mathematics elective			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4
3	Additional degree requirement			4

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	HIST/ MATH	4203	History of Mathematics	2
3	Mathematics elective			2 & 3
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Additional degree requirement			4
3	Additional degree requirement			4

SENIOR YEAR SPRING SEMESTER - 13 HOURS

HOURS				NOTES
2	MATH	4992	Senior Project	2
3	Mathematics elective			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4
2	Additional degree requirement			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.
2. These courses are used to determine major courses in residency, see Graduation Requirements in this catalog.
3. Mathematics electives, nine hours. Select from upper-level MATH courses (maximum of three hours from MATH 3800 series). Consult with faculty advisor.
4. Additional degree requirements, 26 hours. Must complete a minor with at least 18 hours and electives as needed to total 120 hours. Consult with faculty advisor. Must select courses to ensure completion of 40 upper-level hours required for graduation.
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 a score of 70% or more on a challenge exam for FIN 1521.

MATHEMATICS MINOR
MINOR CODE: A005

The minor in mathematics requires 16 hours of coursework. Courses taken in the minor must be completed with a grade of C or better.

REQUIRED SEVEN HOURS

MATH	2854	Calculus II
MATH	2443	Discrete Mathematics I

SELECT 9 HOURS FROM THE FOLLOWING

MATH 3000 or 4000 level courses (except MATH 3800 series)
STAT 3000 or 4000 level course (maximum three hours from STAT)

Mathematics with Teacher Licensure 7-12

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3568

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	5
4	MATH	2804	Calculus I	2 & 3
3	POLS	2753	American National Government	
3	STAT	2503	Probability and Statistics I	2
1	STEM	1001	College Prep for STEM Majors	
3	English Composition requirement			1 & 3

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
4	CS	1014	Foundations of Programming I	
2	EDUC	2752	Introduction to Education	3
3	MATH	2443	Discrete Mathematics I	2
4	MATH	2854	Calculus II	2
3	English Composition requirement			1 & 3

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
2	EDUC	3002	Introduction to Educational Technology	
4	MATH	2904	Calculus III	2
4	MATH	3104	Foundations of Mathematics	2
3	SPCH	1203	Introduction to Speech Communication	3
3	STAT	3503	Mathematical Statistics I	2

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	MATH	3203	Applied Linear Algebra	2
3	MATH	3403	College Geometry	2
3	MATH	3803	Foundations of Algebra	2
3	MATH 3833 Math Pedagogy for Data Analysis (odd year) or Fine Arts/Humanities/Social Sciences requirement (even year)			1 or 2
3	Fine Arts/Humanities/Social Sciences 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 - 14 HOURS

HOURS				NOTES
3	EDUC	3013	Human Development and Learning	4
1	EDUC	3221	Practicum I	4
3	MATH MATH	3813 3823	Mathematics Pedagogy for Spatial Relations (odd year) or Mathematics Pedagogy for Upper Secondary Mathematics (even year)	2
3	MATH	4303	Real Analysis	2
4	PHYS	2903 2911	University Physics I University Physics I Laboratory	

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 2931	University Physics II University Physics II Laboratory	
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 MATH	3813 3823	Mathematics Pedagogy for Spatial Relations (odd year) or Mathematics Pedagogy for Upper Secondary Mathematics (even year)	2
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. 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.

Media Communication

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2567

MEDIA AND CULTURAL ANALYSIS CONC. CODE: C055

MEDIA PRODUCTION AND WRITING CONC. CODE: C056

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	MCOM	1203	Introduction to Media Communication	2
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1
3	Mathematics requirement			1
3	History/Government requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	MCOM	2223	Communication Theory	2
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	MCOM	2513	Media Production	2
3	MCOM	2613	Writing Across the Media	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
4	World Language requirement			5

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	MCOM	3213	Visual Communication	2
1	MCOM	3801	Practicum	2
4	Lab Science requirement			1
4	World Language requirement			5
3	Additional degree requirement			4

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	PHIL PHIL	3103 3203	Reasoning Across the Disciplines or Ethics Across the Disciplines	
3	Media Communication elective			2 & 3
3	Media Communication elective			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4

JUNIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
1	MCOM	3801	Practicum	2
3	Media Communication elective			2 & 3
3	Media Communication elective			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	Media Communication elective			2 & 3
3	Media Communication elective			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4
3	Additional degree requirement			4

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
1	MCOM	4801	Senior Seminar	2
3	Media Communication elective			2 & 3
3	Media Communication elective			2 & 3
3	Additional degree requirement			4
2	Additional degree requirement			4

120 Total Hours

At least 40 hours must be upper-level

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Students must earn a grade of C or better in all courses counted toward the major.
3. Media Communication electives, 24 hours. Select an area of concentration from Media and Cultural Analysis: MCOM 3303, 3313, 3903, 4203, and 4303; or Media Production and Writing: MCOM 3503, 3513, 3613, 4503, and 4513. Select an additional nine elective hours from upper-level MCOM classes not previously used or, with department head approval, upper-level hours in THEA, RHET, or GRDS.
4. Additional degree requirements, 32 hours. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed. Select to ensure completion of 40 upper-level hours required for graduation.
5. World language requirement, eight hours. Must complete through Beginning II of a world language or equivalent.

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.

MEDIA COMMUNICATION MINOR
MINOR CODE: A023

The minor in media communication requires 18 hours of coursework. Students must earn a grade of C or higher in all courses counted toward minor.

REQUIRED 12 HOURS:

MCOM	1203	Introduction to Media Communication
MCOM	2513	Media Production

MCOM	2613	Writing Across the Media
MCOM	3213	Visual Communication

SELECT SIX HOURS:

Select an additional six hours of upper-level MCOM courses (3000-4000).

Music Programs

ADMISSION REQUIREMENTS FOR ALL MUSIC MAJORS

An audition demonstrating acceptable musical preparation is required prior to enrollment as a major in music. Students will be auditioned by full-time music faculty members. Department requirements include recital attendance.

Students who have little or no background in music theory will be required to pass MUSI 1183 Music Fundamentals with a minimum grade of B as a prerequisite to enrollment to MUSI 1223 Music Theory I.

Private instruction in the student's major performance area is required of all music majors.

For more information on specific music program policies, please refer to the *UAFS Music Student Handbook*. To obtain an electronic copy of the handbook, please contact the Department of Music and Theatre office at (479) 788-7530.

Music

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2550

FRESHMAN YEAR FALL SEMESTER - 16 (17) HOURS

HOURS				NOTES
1	MUSI	1201	Sight Singing & Ear Training I	2
3	MUSI	1223	Music Theory I	2
1	MUSR	14_1	Large Ensemble	2
2	MUS_	1252	Private Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	1161	Class Piano I (for non-piano majors)	4
3	English Composition requirement			1
3	Mathematics requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 (17) HOURS

HOURS				NOTES
1	MUSI	1211	Sight Singing & Ear Training II	2
3	MUSI	1233	Music Theory II	2
1	MUSR	14_1	Large Ensemble	2
2	MUS_	1252	Private Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	1171	Class Piano II (for non-piano majors)	4
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 (16) HOURS

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

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	MUSR	14_1	Large Ensemble	2
2	MUS_	1252	Private Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	2171	Class Piano IV (for non-piano majors)	4
4	Lab Science requirement			1
4	World Language requirement			5

JUNIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	MUSI	3503	Music History I	2
1	MUSR	34_1	Large Ensemble	2
2	MUS_	3252	Private Instruction	2
0	MUSI	3000	Recital Attendance	2
3	PHIL	3203	Ethics Across the Disciplines	
3	Additional degree requirement			3
2	Additional degree requirement			3

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	MUSI	3513	Music History II	2
1	MUSR	34_1	Large Ensemble	2
2	MUS_	3252	Private Instruction	2
0	MUSI	3000	Recital Attendance	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Additional degree requirement			3
3	Additional degree requirement			3

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	MUSI	4443	Survey of American Music	2
1	MUSR	3__1	Small Ensemble	2
2	MUS_	3252	Private Instruction	2
0	MUSI	3000	Recital Attendance	2
3	Upper-level music elective			2 & 6
3	History/Government requirement			1

HOURS				NOTES
3	Additional degree requirement			3

SENIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
1	MUSR	3__1	Small Ensemble	2
2	MUS_	3252	Private Instruction	2
0	MUSI	3000	Recital Attendance	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Additional degree requirement			3
3	Additional degree requirement			3
2	Additional degree requirement			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. Follow requirements with this stipulation: fine arts-must select HUMN 2563.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Additional degree requirements, 22 hours; at least 13 must be upper-level. Consult with faculty advisor. Courses must be from areas other than music. A minor is required; follow the respective minor requirements. Select courses to ensure completion of 40 upper level hours required for graduation.
4. The department requires students to meet a piano proficiency. Students with little or no piano abilities will be required to pass, with a minimum grade of C, up to four hours of class piano (MUSC 1161, 1171, 2161, and 2171).
5. World language requirement, eight hours. Must complete through Beginning II of a world language.
6. In consultation with advisor, select any upper-level music courses(s) for which prerequisites have been met.

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.

MUSIC MINOR
MINOR CODE: A018

The minor in music requires 22 hours of coursework. An audition demonstrating acceptable musical preparation is required prior to declaring a minor in music. Students will be auditioned by full-time music faculty members.

REQUIRED 11 HOURS OF BASIC MUSIC CLASSES:

MUSI	1201	Sight Singing and Ear Training I
MUSI	1223	Music Theory I
MUSI	1211	Sight Singing and Ear Training II
MUSI	1233	Music Theory II
MUSI	2763	Music Appreciation

APPLIED MUSIC - TWO HOURS:

MUS_	1251	Private Instruction for two semesters.

SELECT NINE HOURS FROM THE FOLLOWING:

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

Music Education Instrumental Music K-12

BACHELOR OF MUSIC EDUCATION (BME) DEGREE
MAJOR CODE: 3570
CONC. CODE: C008

FRESHMAN YEAR FALL SEMESTER - 15 (16) HOURS

HOURS				NOTES
2	MUSI	1102	Music Education as a Profession	2
1	MUSI	1201	Sight Singing and Ear Training I	2
3	MUSI	1223	Music Theory I	2
1	MUSR	1441	Wind Ensemble	2
2	MUS_	1252	Private Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	1161	Class Piano I (for non-piano majors)	6
3	English Composition requirement			1 & 3
3	Mathematics requirement			1 & 3

FRESHMAN YEAR SPRING SEMESTER - 17 (18) HOURS

HOURS				NOTES
1	MUSI	1211	Sight Singing and Ear Training II	2
3	MUSI	1233	Music Theory II	2
1	MUSI	2821	Percussion Instruments	2 & 4
1	MUSR	1441	Wind Ensemble	2
2	MUS_	1252	Private Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	1171	Class Piano II (for non-piano majors)	6
3	SPCH	1203	Introduction to Speech Communication	3
3	English Composition requirement			1 & 3
3	History/Government requirement			1

SOPHOMORE YEAR FALL SEMESTER - 17 (18) HOURS

HOURS				NOTES
2	EDUC	2752	Introduction to Education	2 & 3
2	MUSI	1322	Music Technology	2
1	MUSI	2781	Sight Singing and Ear Training III	2
3	MUSI	2803	Music Theory III	2
1	MUSR	1441	Wind Ensemble	2
2	MUS_	1252	Private Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	2161	Class Piano III (for non-piano majors)	6
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 15 (16) HOURS

HOURS				NOTES
1	MUSI	2791	Sight Singing and 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	Wind Ensemble	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 - 18 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
2	MUSI	3302	Marching Band/Jazz Techniques	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	Wind Ensemble	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
3	MUSI	3833	Elementary Music Methods and Materials	2
2	MUSI	3882	Advanced Conducting	2
2	MUSI	4532	Form and Analysis	2
1	MUSI	3851	Woodwinds II	2 & 4
1	MUSR	3441	Wind Ensemble	2
2	MUS_	3252	Private Instruction	2
0	MUSI	3000	Recital Attendance	2
3	History/Government requirement			1

SENIOR YEAR FALL SEMESTER - 18 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	Wind Ensemble	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
3	Fine Arts/Humanities/Social Sciences requirement			1
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

129 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: lab sciences-select BIOL 1153/1151 and select another without BIOL prefix; fine arts - HUMN 2563 is required; history/government-POLS 2753 is required and select either HIST 2753 or 2763.
2. These courses are used to determine major courses in residency.
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. Offered on a rotating schedule and may be taken out of sequence.
5. Must be admitted to the School of Education Educator Preparation Program.
6. The department requires students to meet a piano proficiency. Students with little or no piano abilities will be required to pass (with a minimum grade of C) up to four hours of class piano (MUSC 1161, 1171, 2161, and 2171).

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 K-12

BACHELOR OF MUSIC EDUCATION (BME) DEGREE
MAJOR CODE: 3570
CONC. CODE: C007

FRESHMAN YEAR FALL SEMESTER - 16 (17) HOURS

HOURS				NOTES
2	MUSI	1102	Music Education as a Profession	2
1	MUSI	1201	Sight Singing and Ear Training I	2
3	MUSI	1223	Music Theory I	2
1	MUSI	2181	Diction for Singers I	2
1	MUSR	1421	The Leonis Chamber Singers	2
2	MUSV	1252	Private Voice Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	1161	Class Piano I (for non-piano majors)	5
3	English Composition requirement			1 & 3
3	Mathematics requirement			1 & 3

FRESHMAN YEAR SPRING SEMESTER - 17 (18) HOURS

HOURS				NOTES
1	MUSI	1211	Sight Singing and Ear Training II	2
3	MUSI	1233	Music Theory II	2
1	MUSI	2191	Diction for Singers II	2
1	MUSR	1421	The Leonis Chamber Singers	2
2	MUSV	1252	Private Voice Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	1171	Class Piano II (for non-piano majors)	5
3	SPCH	1203	Introduction to Speech Communication	3
3	English Composition requirement			1 & 3
3	History/Government requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 (16) HOURS

HOURS				NOTES
2	EDUC	2752	Introduction to Education	2 & 3
2	MUSI	1322	Music Technology	2
1	MUSI	2781	Sight Singing and Ear Training III	2
3	MUSI	2803	Music Theory III	2
1	MUSI	2841	Instrumental Concepts for Vocalists	2
1	MUSR	1421	The Leonis Chamber Singers	2
2	MUSV	1252	Private Voice Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSC	2161	Class Piano III (for non-piano majors)	5
3	Fine Arts/Humanities/Social Sciences requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 (17) HOURS

HOURS				NOTES
1	MUSI	2791	Sight Singing and Ear Training IV	2
3	MUSI	2813	Music Theory IV	2
1	MUSR	1421	The Leonis Chamber Singers	2
2	MUSV	1252	Private Voice Instruction	2
0	MUSI	1000	Recital Attendance	2
1	MUSI	2171	Class Piano IV (for non-piano majors)	5
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences 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 - 18 HOURS

HOURS				NOTES
3	EDUC	3013	Human Development and Learning	2 & 4
1	EDUC	3221	Practicum I	2 & 4
2	MUSI	3102	Orchestration and Arranging	2
3	MUSI	3503	Music History I	2
2	MUSI	3822	Principles of Conducting	2
1	MUSR	3421	The Leonis Chamber Singers	2
2	MUSV	3252	Private Voice Instruction	2
0	MUSI	3000	Recital Attendance	2
4	Lab Science requirement			1

JUNIOR YEAR SPRING SEMESTER - 18 HOURS

HOURS				NOTES
2	MUSI	3402	Choral Literature	2
3	MUSI	3513	Music History II	2
3	MUSI	3833	Elementary Music Methods and Materials	2
2	MUSI	3882	Advanced Conducting	2
2	MUSI	4532	Form and Analysis	2
1	MUSR	3421	The Leonis Chamber Singers	2
2	MUSV	3252	Private Voice 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 & 4
1	EDUC	4211	Practicum II	2 & 4
3	MUSI	4843	Secondary Vocal Methods and Materials	2
1	MUSR	3421	The Leonis Chamber Singers	2
2	MUSV	3252	Private Voice Instruction	2
0	MUSI	3000	Recital Attendance	2
0	MUSI	4030	Senior Recital	2
2	SPED	3022	Survey of Diverse Populations	2 & 4
4	Lab Science requirement			1

SENIOR YEAR SPRING SEMESTER - 12 HOUR

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

129 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: lab sciences-select BIOL 1153/1151 and select another without BIOL prefix; fine arts-must select HUMN 2563; history/government-POLS 2753 is required and select either HIST 2753 or 2763.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
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. The department requires students to meet a piano proficiency. Students with little or no piano abilities will be required to pass (with a minimum grade of C) up to four hours of class piano (MUSC 1161, 1171, 2161, and 2171).

A student earning a bachelor of music education – vocal music degree will have completed the requirements to be eligible to apply for teacher licensure in vocal 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.

Philosophy

PHILOSOPHY MINOR
MINOR CODE: AO19

The minor in philosophy requires 18 hours of coursework. Each course must be completed with a grade of C or better.

REQUIRED NINE HOURS:

PHIL	2753	Introduction to Philosophy
PHIL	3103	Reasoning across the Disciplines
PHIL	3203	Ethics across the Disciplines

SELECT NINE HOURS:

Any upper-level (3000 or 4000) PHIL courses
POLS 3403 Political Philosophy

Physics

PHYSICS MINOR
MINOR CODE: AO26

The minor in physics requires 15-17 hours of coursework.

REQUIRED NINE HOURS

PHYS	2933	University Physics III
PHYS	3103	Modern Physics
PHYS	3203	Math Methods in Science I

SELECT SIX - EIGHT HOURS FROM THE FOLLOWING

PHYS	3303	Math Methods in Science II
PHYS	3403	Classical Mechanics
PHYS	3503	Classical Thermodynamics
PHYS	3803	Electricity and Magnetism

Non-chemistry majors may use:

CHEM	4504	Physical Chemistry I
CHEM	4514	Physical Chemistry II

Political Science

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 3535

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	HIST	2753	United States History I	
3	POLS	2753	American National Government	2
3	English Composition requirement			1
4	Lab Science requirement			1
3	Mathematics requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS		NOTES
3	English Composition requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
4	Lab Science requirement	1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	POLS	2853	State and Local Government	2
3	SPCH	1203	Introduction to Speech Communication	
3	STAT	2503	Probability and Statistics I	
3	Fine Arts/Humanities/Social Sciences requirement			1
4	World Language requirement			5

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS		NOTES
3	Political Science requirement	2 & 3
3	Political Science requirement	2 & 3
4	World Language requirement	5

HOURS		NOTES
3	Additional degree requirement	4
3	Additional degree requirement	4

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS		NOTES
3	Political Science requirement	2 & 3
3	Political Science requirement	2 & 3
3	World Language requirement	5
3	Additional degree requirement	4
3	Additional degree requirement	4

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS		NOTES
3	Political Science requirement	2 & 3
3	Political Science requirement	2 & 3
3	Additional degree requirement	4
3	Additional degree requirement	4
3	Additional degree requirement	4

SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS		NOTES
3	POLS 3803 Social Research Methods and Statistics	2
3	Political Science requirement	2 & 3
3	Additional degree requirement	4
3	Additional degree requirement	4
2	Additional degree requirement	4

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS		NOTES
3	POLS 4803 Seminar in Political Science	2
3	Political Science requirement	2 & 3
3	Political Science requirement	2 & 3
3	Additional degree requirement	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 the following stipulations: social sciences - HIST 2763 is required and select one course from ANTH 2803, ECON 2803, ECON 2813, GEOG 2753, HIST 1123, HIST 1133, PSYC 1163, and SOCI 2753.
2. These courses are used to determine major courses in residency. See Graduation Requirements section in this catalog. Major courses counted in residency must be passed with a grade of C or better.
3. Political Science requirements, 27 hours. Must complete POLS 3103, 3113, 3123, 3133, 3143, and 495V. Select an additional nine hours of upper-level POLS courses in consultation with faculty advisor. POLS 495V is limited to nine hours toward this requirement.
4. Additional degree requirements, 32 hours; at least seven must be upper-level. Consult with faculty advisor. A minor is required; follow respective minor requirements.
5. World language requirement, 11 hours. Must complete through Intermediate I of a world language.

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.

POLITICAL SCIENCE MINOR
MINOR CODE: A020

The minor in political science requires 18 hours of coursework.

REQUIRED NINE HOURS:

POLS	2753	American National Government
POLS	2853	State and Local Government
POLS	3113	Public Policy

SELECT NINE HOURS:

Any upper-level (3000 or 4000) POLS courses

Rhetoric and Writing

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE 2555

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS		NOTES
3	SPCH 1203 Introduction to Speech Communication	
3	English Composition requirement	1
3	Mathematics requirement	1
3	History/Government requirement	1
4	Lab Science requirement	1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS		NOTES
3	English Composition requirement	1
4	Lab Science requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

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

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS		NOTES
3	ENGL 3003 History and Development of the English Language	2
3	RHET 3203 Textual Research Methods	2
3	RHET requirement	2 & 7
4	World Language requirement	6

HOURS				NOTES
3	Additional degree requirement			5

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	RHET	3303	Rhetorical and Textual Criticism	2
3	RHET	3403	Rhetorics and Poetics	2
3	Rhetoric/Writing elective			2 & 4
3	Rhetoric/Writing elective			2 & 4
3	Additional degree requirement			5

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	RHET	3903	Visual Rhetoric	2
3	Rhetoric/Writing elective			2 & 4
3	Rhetoric/Writing elective			2 & 4
3	Additional degree requirement			5
3	Additional degree requirement			5

SENIOR YEAR FALL SEMESTER - 13 HOURS

HOURS				NOTES
3	RHET	4803	Senior Seminar	2
3	Rhetoric/Writing elective			2 & 4
3	Rhetoric/Writing elective			2 & 4
3	Additional degree requirement			5
1	Additional degree requirement			5

SENIOR YEAR SPRING SEMESTER - 13 HOURS

HOURS		NOTES
3	Additional degree requirement	5
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.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Students must earn a grade of C or better in all courses counted toward the major.
3. If RHET 2863 was taken for composition requirement, select an upper-level RHET course.
4. Rhetoric/Writing electives, 18 hours from one of two options: Professional and Technical Writing - choose from RHET 3603, 4123, 4503, 4523, 4603, 4633, 4733, 3413, 3801, 493V, or 4953; Creative Writing - choose from RHET 3703, 4113, 4133, 4153, 4173, 4303, 4633, 3413, 3801, 493V, or 4953.
5. Additional degree requirements, 32 hours - one hour must be upper-level. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed. Select to ensure completion of 40 upper-level hours required for graduation.
6. World language requirement, eight hours. Must complete through Beginning II of a world language.
7. Professional and Technical Writing Option must take RHET 3503. Creative Writing option must take RHET 3513.

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.

RHETORIC/WRITING MINOR

MINOR CODE: A007

The minor in rhetoric/writing requires 18 hours of coursework. Each course in the minor must be completed with a grade of C or better.

REQUIRED 12 HOURS

RHET	2863	Advanced Composition
RHET	3103	Editing for Usage, Style and Clarity
RHET	3503	Writing Arguments
RHET	3903	Visual Rhetoric

SELECT SIX HOURS:

RHET	3203	Textual Research Methods
RHET	3303	Rhetorical and Textual Criticism
RHET	3403	Rhetorics and Poetics
RHET	3413	Publications Staff
RHET	3603	Writing for the Workplace
RHET	3801	Publications Staff (may be repeated for up to three hours)
RHET	4123	Professional Editing and Publishing
RHET	4503	Arguing Public Issues
RHET	4523	Grant Writing
RHET	4603	Scientific and Technical Writing
RHET	4633	Writing for the Web
RHET	4733	Special Topics in Rhetoric (may be repeated once for credit provided topics vary)
RHET	4953	Writing Internship

Sociology

SOCIOLOGY MINOR
MINOR CODE: A021

The minor in sociology requires 18 hours of coursework. Each course taken in the minor must be completed with a grade of C or better.

REQUIRED NINE HOURS:

SOCI	2753	Introduction to Sociology or
SOCI	2753H	Honors Introduction to Sociology
SOCI	2853	Social Problems
ONE OF THE FOLLOWING		
CJ	3983	Introduction to Research Methods
POLS	3803	Social Research Methods and Statistic
PSYC	2613	Research Methods in Psychology
SOCI	2863	Introduction to Social Research Methods

SELECT NINE HOURS:

Any 3000 or 4000 level SOCI courses

Spanish

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2557

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	6
3	SPAN SPAN	2313 2323	Intermediate Spanish II or Intermediate Spanish II for Heritage Speakers	2
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1
3	Mathematics requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	SPAN	3003	Phonetics and Pronunciation	2
3	SPAN	3013	Spanish Grammar	2
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	SPAN	3053	Cultural Readings	2
3	SPAN	3063	Advanced Composition	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	History/Government requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	SPAN	3333	Spanish American Literature and Civilizations	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Additional degree requirement			4
3	Additional degree requirement			4
3	Additional degree requirement			4

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	ENGL	2113	Introduction to Literary and Cultural Studies	2
3	PHIL	3103	Reasoning Across the Disciplines	
3	SPAN	3343	Literature and Civilizations of Spain	2
3	Spanish elective			2 & 3
3	Additional degree requirement			4

JUNIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	SPAN	4053	Topics in Culture	2
3	Spanish elective			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4

JUNIOR YEAR SUMMER - 6 HOURS

HOURS				NOTES
3	SPAN SPAN	3553 4953	Immersion in a Spanish Speaking Region or Spanish Internship	2 & 5
3	Additional degree requirement			4

SENIOR YEAR FALL SEMESTER - 12 HOURS

HOURS				NOTES
3	SPAN	4023	Advanced Conversation	2
3	SPAN	4153	Topics in Literature	2
3	SPAN	4993	Capstone	2
3	Additional degree requirement			4

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	Spanish elective			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			4
3	Additional degree requirement			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.
2. These courses are used to determine major courses in residency. Students must earn a grade of C or better in all courses counted toward the major.
3. Spanish electives, nine 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.
4. Additional degree requirements, 33 hours. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select courses to ensure completion of 40 upper-level hours required for graduation.
5. Travel study and internship courses help students to attain oral, cultural, and professional proficiencies. Consult with faculty advisor to arrange for immersion experience.
6. 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 majors are required to pass a Capstone project (SPAN 4993) with a grade of C or better prior to graduation.

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 2323	Intermediate Spanish II or 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 FOR THE HELPING PROFESSIONS
CERTIFICATE OF PROFICIENCY
MAJOR CODE: TBD - PENDING APPROVAL FROM AHECB

Note: SPAN 1304 Beginning Spanish I and SPAN 1314 Beginning Spanish II, or required placement scores are prerequisites for SPAN 2303

HOURS			
3	SPAN	2303	Intermediate Spanish I
3	SPAN	2313 2323	Intermediate Spanish II or Intermediate Spanish II for Heritage Speakers
3	SPAN	2833	Spanish for the Professions

9 Total Hours

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

SELECT NINE HOURS:

Any upper-level (3000 - 4000) SPCH course

Studio Art

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2560

Admission into the bachelor of arts in studio art program requires completion of 15 hours of 1000-level ART foundation courses and passing ART 1551 Admissions Portfolio. Contact the head of the Art Department for specifics concerning this requirement.

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	ART	1103	2D Design	2
3	ART	1113	Drawing	2
3	ART	1123	Digital Imaging	2
3	English Composition requirement			1
4	Lab Science requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	ART	1133	Introduction to Typography	2
3	ART	1143	3D Design	2
1	ART	1551	Admissions Portfolio	2
1	FIN	1521	Personal Finance Applications	7
3	English Composition requirement			1
4	Lab Science requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	AHIS	2863	Art History Survey I	2 & 6
3	Mathematics requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Lower-level studio art requirement			2 & 3
3	Lower-level studio art requirement			2 & 3

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	AHIS	2873	Art History Survey II	2 & 6
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 Hours

At least 40 hours must be upper level

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. Follow requirements with following stipulations: fine arts - may not use AHIS 2863 or AHIS 2873.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog. A grade of C or better is required in all ART/AHIS/GRDS courses counted toward the degree. A cumulative 2.75 GPA is required in these courses to meet graduation requirements. Students must pass ART 1551 to be admitted into the studio art program.
3. Art requirements, 27 hours. Lower-level studio art courses: select six hours from any 2000-level ART course. Upper-level art history: select six hours from any 3000- and 4000-level AHIS course. Upper-level studio art courses: select 15 hours from any 3000- or 4000-level ART course, GRDS 3223, and GRDS 3263.
4. World language requirement, eight hours. Must complete through Beginning II of a world language.
5. Additional degree requirements, 20 hours; 12 must be upper-level. A minor is required; follow the respective minor requirements. Consult with faculty advisor.
6. Students are strongly recommended to take AHIS 2863 before AHIS 2873.
7. 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.

STUDIO ART MINOR
MINOR CODE: AO10

The minor in Studio Art requires 21 hours of coursework.

REQUIRED SIX HOURS:

AHIS	2863	Art History Survey I or
AHIS	2873	Art History Survey II
Any 3000- or 4000-level AHIS course		

SELECT NINE HOURS OF ART FOUNDATION COURSES FROM THE FOLLOWING:

ART	1103	2D Design
ART	1113	Drawing
ART	1123	Digital Imaging
ART	1133	Typography
ART	1143	3D Design
ART	2203	Figure Drawing
ART	2213	Introduction to Printmaking
ART	2223	Introduction to Painting
ART	2403	Introduction to Book Arts

SELECT SIX HOURS FROM THE FOLLOWING:

Any 3000 or 4000 level studio art course		
GRDS	3223	Digital Photography
GRDS	3263	Advanced Digital Photography

Teaching English as a Second Language (TESL)

TEACHING ENGLISH AS A SECOND LANGUAGE MINOR
MINOR CODE: AO29

The minor in TESL requires 18 hours of coursework.

REQUIRED 12 HOURS OF CORE COURSES

HOURS			
3	ENGL/ FORL	4313	Second and Foreign Language Teaching Methods
3	ENGL/ FORL	4323	Second Language Acquisition
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	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	Second Language Acquisition
3	ENGL/ FORL	4333	Second Language Assessment
3	ENGL/ FORL	4353 4343	Teaching People of Other Cultures

SELECT THREE HOURS:

ENGL/ FORL	130V	Language and Culture
ENGL	3663	English Grammar
FREN	2313	Intermediate French II
GERM	2313	Intermediate German II
SPAN	2313	Intermediate Spanish II
SPAN	2323	Intermediate Spanish II for Heritage Speakers
Any 3000- or 4000-level World Language course		

15 Total Hours

Technical Writing

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 2556
COURSE REQUIREMENTS

REQUIRED NINE HOURS			
3	RHET	3103	Editing for Usage, Style, and Clarity
3	RHET	3603	Writing for the Workplace
3	RHET	3903	Visual Rhetoric

NINE HOURS, SELECT ONE OF THE FOLLOWING OPTIONS

Full Online Option			
3	RHET	4523	Grant Writing
3	RHET	4603	Scientific and Technical Writing
3	RHET	4633	Writing for the Web
Hybrid Option			
Select 6 credit hours from designated courses in Legal Studies, Animation Technology, Office Management Technology, Workforce Leadership, and/or Organizational Leadership. Approved courses include: BSAT 3053, BSAT 3893, LEAD 3133, LEAD 3643, LEAD 4123, LEAD 4693, LEGL 1103, LEGL 1203, OMT 1203, OMT 2343, PRFS 4133, PRFS 4433, PRFS 4633, WFL 1174, WFL 1374, WFL 2583, and WFL 2852. Other courses may be approved for inclusion, per department head review			
Select one additional course from the following			
3	RHET	4523	Grant Writing
3	RHET	4603	Scientific and Technical Writing
3	RHET	4633	Writing for the Web

18 Total Hours

Theatre

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2562
ACTING/DIRECTING CONC. CODE: CO26
DESIGN CONC. CODE: CO27

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	SPCH	1203	Introduction to Speech Communication	
3	THEA	1203	Introduction to Theatre	2
1	THEA	1711	Studio Dance I	2
3	English Composition requirement			1
3	Mathematics requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	THEA	1303	Acting I	2
3	THEA	1503	Stagecraft	2
1	Theatre practicum			2 & 3
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

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

HOURS				NOTES
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 PHIL	3103 3203	Reasoning Across the Disciplines or 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: AO11

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 courses in agreement with the theatre faculty.

Bachelor of General Studies

The bachelor of general studies (BGS) is an interdisciplinary program that allows students the flexibility to tailor the degree to their individual needs and interests. Before declaring the BGS, a student must have attempted another major for at least two semesters and must have completed a minimum of 45 credit hours. The degree program requires successful completion of 120 credit hours with a minimum GPA of 2.0. A student cannot use this degree program as part of a double major, dual degree, or as a second baccalaureate degree.

BACHELOR OF GENERAL STUDIES DEGREE
MAJOR CODE: 0105

HOURS				NOTES
6	English Composition requirement			1
3	Fine Arts requirement			1
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 PHIL	3103 3203	Reasoning Across the Disciplines or Ethics Across the Disciplines	

HOURS		NOTES
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. These courses are 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 prefix. 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 prefix 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

HOURS		NOTES
6	English Composition requirement	1
3	Speech requirement	1
3	Mathematics requirement	1
8	Lab Science requirement	1
3	Fine Arts requirement	1
3	Humanities requirement	1
3	History/Government requirement	1
6	Social Sciences requirement	1
0-3	Institutional requirement/advisor elective	2
22-25	Directed electives	3

60 Total Hours

Notes

1. Follow the General Education Core Requirements, see Graduation Requirements section of catalog.
2. Institutional requirement/advisor elective, 0-3 hours. May only take ITA 1003 for this elective. If ITA 1003 is not used to meet this requirement, 25 hours of directed electives will be taken.
3. Directed electives, 22-25 hours. (Courses taken to satisfy other State General Education Core Requirements cannot fulfill the directed electives requirement.) Select 22-25 hours of 1000-2000 level electives from the following areas: ANTH, ART, BIOL, CHEM, CJ 1013, ECON, ENGL (except ENGL 1201), FORL, FREN, GEOG, GEOL, GERM, HIST, HUMN, MATH (except MATH 1133 and 1203), MUSI 2763, PHIL, PHSC, PHYS, POLS, PSYC, RHET, SOCI, SPAN, SPCH, STAT, THEA.

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 General Studies

The associate of general studies (AGS) degree allows maximum exploration of courses by the student. It is not intended for students who plan to pursue a baccalaureate degree. Although all courses for the AGS degree are college-level, the combination of courses selected may not normally constitute a major area suitable for a baccalaureate degree and may not transfer to other institutions.

DEGREE REQUIREMENTS
MAJOR CODE: 0005

HOURS		NOTES
6	English Composition requirement	1
3	Mathematics requirement	1
4	Lab Science requirement	1
3	Fine Arts requirement	1
3	Humanities requirement	1

HOURS		NOTES
6	Social Sciences requirement	1
3	SPCH 1203 Introduction to Speech Communication	
3	Computer applications/fundamentals	2
29	Electives	3

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog.
2. Select three hours from the following: ITA 1003, 1011, 1051, 1101, 1201, 1251, or MGMT 2103.
3. Electives. Must select college-level courses of 1000 or 2000 level (except MATH 1203 and ENGL 1201). A maximum of four, one-credit hour physical education activity courses may be applied toward graduation. A maximum of eight hours of music performance courses, music class instruction, and/or private instruction courses may be applied toward graduation requirements for non-music majors.

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.

COLLEGE OF BUSINESS AND INDUSTRY

The College of Business and Industry prepares students for careers in business and high demand technical fields. A variety of degrees and certificates are available. Courses are dynamic and practice-oriented such that graduates can make an immediate positive impact on the workplace, community, and regional economy. In addition to credit programs, the Center for Business and Professional Development offers customized training for those already employed or seeing to advance their careers.

The following business degrees and certificates are accredited by the Association to Advance Collegiate Schools of Business (AACSB):

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

CERTIFICATES OF PROFICIENCY

- Accounting Fundamentals
- Community Leadership
- Consumer Marketing
- Corporate Finance
- Digital Marketing
- Economic Analysis
- Entrepreneurship
- Human Resource Management
- International Business
- International Financial Economics
- Investment Securities
- Public Accounting Standards and Practices

The following technical degrees area accredited by the Association of Technology, Management, and Applied Engineering (ATMAE):

BACHELOR OF APPLIED SCIENCE IN LOGISTICS OPERATIONS

BACHELOR OF SCIENCE IN ANIMATION TECHNOLOGY

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING TECHNOLOGY

BACHELOR OF SCIENCE IN ORGANIZATIONAL LEADERSHIP

ASSOCIATE OF APPLIED SCIENCE

- Computer Graphic Technology
- Computer Integrated Machining
- Electronics Technology
- General Technology
- Network Engineering Technology
- Office Management Technology
- Unmanned Aerial Systems
- Workforce Leadership

TECHNICAL CERTIFICATES

- Automotive Technology
- Computer Graphic Technology
- Computer Integrated Machining
- Diesel Technology
- Industrial Electronics and Electrical Maintenance
- Network Engineering Technology
- Office Management Technology
- Welding
- Workforce Leadership

CERTIFICATES OF PROFICIENCY

- Automotive Driveability
- Automotive Drivetrain
- Automotive Undercar
- Computer Graphic Technology
- Computer Integrated Machining
- Computer Numerical Control Machining
- Continuous Improvement
- Industrial Electronics and Electrical Maintenance
- Logistics
- Network Engineering Technology
- Office Management Technology
- Robotics
- Support Technology
- Sustainable Energy Technologies
- Welding - Arc

- Welding - MIG
- Welding - TIG
- Welding Layout and Fabrication
- Workforce Leadership

Bachelor of Business Administration

Students work with their advisor in the selection of two concentrations from the following:

- Core Accounting Concepts
- Professional Accounting Concepts
- Public Accounting Concepts
- Business Economics
- Business Interdisciplinary
- Consumer Marketing
- Corporate Finance
- Digital Marketing
- Human Resource Management
- International Management
- Investments
- Management
- Small Enterprise Management

ADMISSION REQUIREMENTS

Students may declare a business major at any time. However, to be officially admitted into the School of Business, students must meet these eligibility criteria:

1. Complete a minimum of 45 credit hours.
2. Earn a GPA of 2.50 or better overall (not including transfer credits).
3. Complete the following courses with a 2.0 GPA: ACCT 2803 Principles of Financial Accounting, ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics, MGMT 1203 Foundations of Business, MGMT 2863 Business Communications, STAT 2503 Probability and Statistics I or MGMT 2963 Business Statistics, MGMT 2203 Introduction to International Business, LAW 2003 Legal Environment of Business, and MATH 2403 Survey of Calculus.
4. Demonstrate business computing competency by the successful completion of MGMT 2103 Basic Business Computing or ITA 1003 Computer Applications for the Knowledge Worker, or approved substitution

GRADUATION REQUIREMENTS

The business degree allows a grade of D in courses that are prerequisites to business courses, with the exception of ENGL 1203 and ENGL 1213. Per UAFS policy, no more than 15 hours of Ds may be used in completion of a degree; for the business degree, this includes ACCT, COBI, ECON, FIN, LAW, MGMT, and MKTG courses.

Students can complete the bachelor of business administration by satisfying the University requirements program specific requirements:

1. Maintain a minimum cumulative GPA of 2.00 overall and in business core and major requirements.
2. At least 50 percent of the minimum business courses required for the baccalaureate degree must be taken in residence at UAFS.
   a. Any UAFS student who has declared a major in business must get prior approval from their advisor to take any course at another institution before credit will be given for the course
   b. MGMT 4813 Strategic Management must be taken at UAFS.
3. A minimum of 40 semester credit hours in upper-level courses is required for graduation.
4. All candidates for the BBA are required to take a designated major field assessment test. This test is administered as a part of the capstone MGMT 4813 Strategic Management course. Scores earned on the test become part of the course grade; taking the test is a requirement for course completion.

BACHELOR OF BUSINESS ADMINISTRATION (BBA) DEGREE BUSINESS ADMINISTRATION MAJOR FOUR-YEAR TRACK

MAJOR CODE: 0578

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
1	MGMT	1201	Planning for Success	3
3	MGMT	1203	Foundations of Business	2 & 4
3	SPCH	1203	Introduction to Speech Communication	
3	MATH requirement or elective			1 & 3
3	English Composition requirement			1
3	Required business computing competency			6

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	ECON	2803	Principles of Macroeconomics	
1	FIN	1521	Personal Finance Applications	7
3	LAW	2003	Legal Environment of Business	2 & 4
3	MGMT	2203	Introduction to International Business	2 & 4
3	MATH requirement or elective			1 & 3
3	English Composition requirement			1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	ACCT	2803	Principles of Financial Accounting	2 & 4
3	ECON	2813	Principles of Microeconomics	2 & 4
3	MGMT	2863	Business Communications	2 & 4
3	STAT	2503	Probability and Statistics I	2 & 4
4	Lab Science requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	ACCT	2813	Principles of Managerial Accounting	2 & 4
3	MGMT	3133	Social Responsibility and Ethics in Business	2
3	MGMT	3153	Organizational Behavior	2
3	MKTG	3013	Principles of Marketing Management	2
4	Lab Science requirement			1

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	FIN	3713	Business Finance	2
3	Concentration requirement			2 & 5
3	Concentration requirement			2 & 5
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Elective			3

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	MGMT	3523	Operations Management	2
3	Concentration requirement			2 & 5
3	Concentration requirement			2 & 5
3	History/Government requirement			1
3	Elective			3

SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	MGMT	3913	Decision Support Systems	2
3	Concentration requirement			2 & 5
3	Concentration requirement			2 & 5
3	Fine Arts/Humanities/Social Sciences requirement			1
2	Elective			3

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	MGMT	4813	Strategic Management	2
3	Concentration requirement			2 & 5
3	Concentration requirement			2 & 5
3	Fine Arts/Humanities/Social Sciences requirement			1

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: mathematics – MATH 2403 or higher MATH is required; social sciences – ECON 2803 is required; select one additional course, excluding ECON 2813.
2. These courses are used to determine major courses in residency, see Graduation Requirements. A cumulative GPA of 2.0 is required in these courses to meet graduation requirements.
3. Electives, 12 hours; select courses in consultation with advisor. MATH 1403 is eligible to be used as a general elective if needed as a prerequisite for MATH 2403. MGMT 1201 is required for first-time, full-time freshmen.
4. Lower-level Business Core, 24 hours (includes ECON 2813). Review business program admission requirements for standards of performance.
5. Concentration requirements, 24 hours. Choose two, 12-hour concentrations from those listed below.
6. Required business computing competency may be fulfilled by successful completion of MGMT 2103 or ITA 1003 or approved substitution.
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 score 70% or more on a challenge exam for FIN 1521.

CORE ACCOUNTING CONCEPTS
CONC. CODE: C059
REQUIRED 12 HOURS

ACCT	3003	Intermediate Accounting I
ACCT	3023	Cost Accounting
ACCT	3053	Accounting Information Systems
ACCT	4013	Tax Accounting I

PROFESSIONAL ACCOUNTING CONCEPTS
CONC. CODE: C060
REQUIRED 12 HOURS

ACCT	3013	Intermediate Accounting II
ACCT	4023	Advanced Accounting
ACCT	4053	Auditing
Choose three hours from the following:		
ACCT	3123	Governmental and Not-for-Profit Accounting
ACCT	4113	Tax Accounting II
ACCT	4153	Forensic Accounting
ACCT	467V	Internship in Accounting

PUBLIC ACCOUNTING CONCEPTS
CONC. CODE: C061
CHOOSE 12 HOURS FROM THE FOLLOWING - AT LEAST SIX HOURS MUST BE ACCOUNTING (ACCT)

ACCT	3123	Governmental and Not-for-Profit Accounting
ACCT	4113	Tax Accounting II
ACCT	4153	Forensic Accounting
ACCT	467V	Internship in Accounting
LAW	4033	Law of Commercial Transactions
LAW	4043	Law of Business Organizations
MGMT	3513	Business Analytics

BUSINESS ECONOMICS
CONC. CODE: C062
CHOOSE 12 HOURS FROM THE FOLLOWING

ECON	3313	Microeconomic Analysis
ECON	3353	Macroeconomic Analysis
ECON	4203	International Economics
ECON	4343	Managerial Economics
FIN	3813	Money, Banking, and Financial Markets
FIN	4203	International Finance

BUSINESS INTERDISCIPLINARY
CONC. CODE: C063
REQUIRED 12 HOURS

COBI	467V	Integrative Internship

Select nine hours of upper-level (3000-4000) business courses selected from the following prefixes: ACCT, COBI, ECON, FIN, LAW, MGMT, MKTG

CONSUMER MARKETING
CONC. CODE: C064

CHOOSE 12 HOURS FROM THE FOLLOWING

MKTG	3003	Introduction to Professional Selling
MKTG	3033	Integrated Marketing Communications
MKTG	3123	Consumer Behavior
MKTG	3133	Marketing Research
MKTG	4033	Services Marketing

CORPORATE FINANCE
CONC. CODE: C065

CHOOSE 12 HOURS FROM THE FOLLOWING

FIN	3733	Financial Statement Analysis
FIN	3813	Money, Banking, and Financial Markets
FIN	4203	International Finance
FIN	4313	Capital Budgeting
FIN	4743	Advanced Financial Management

DIGITAL MARKETING
CONC. CODE: C066

REQUIRED 12 HOURS

MKTG	3033	Integrated Marketing Communications
MKTG	3043	E-Business Marketing
MKTG	4133	Social Media Marketing
MKTG	4143	Digital Marketing

HUMAN RESOURCE MANAGEMENT
CONC. CODE: C067

REQUIRED 12 HOURS

LAW	4023	Legal Issues in Human Resources
MGMT	3173	Human Resource Management
MGMT	4153	Strategic Compensation
MGMT	4183	Human Resources Staffing

INTERNATIONAL MANAGEMENT
CONC. CODE: C068

REQUIRED 12 HOURS

FIN	4203	International Finance
MGMT	3203	Cross Cultural Relations
MGMT	4203	International Management
MKTG	4203	International Marketing

INVESTMENTS
CONC. CODE: C069

REQUIRED 12 HOURS

FIN	3723	Investments
FIN	4323	Management of Financial Institutions
FIN	4733	Principles of Portfolio Management
FIN	4773	Derivative Securities and Markets

MANAGEMENT
CONC. CODE: C070

REQUIRED 12 HOURS

MGMT	3513	Business Analytics
MGMT	3543	Global Supply Chain Management
MGMT	3613	Leadership
MGMT	4613	Community Leadership

SMALL ENTERPRISE MANAGEMENT
CONC. CODE: C071

REQUIRED 12 HOURS

MGMT	3033	New Venture Creation
MGMT	3163	Family Business Management
MGMT	4063	Launching a Small Online Business
MGMT	4163	Small Business Management

BACHELOR OF BUSINESS ADMINISTRATION (BBA) DEGREE
BUSINESS ADMINISTRATION MAJOR COMPLETER TRACK

MAJOR CODE: 0579

Students who have completed an associate degree from an accredited college or university may choose the degree completion option in which all classes are available online.

PRE-PROGRAM REQUIREMENTS:

HOURS		NOTES
6	English Composition	1
3	SPCH 1203 Introduction to Speech Communication	
3	MATH 2403 Survey of Calculus or higher math	1
8	Lab Science	1
3	Fine Arts	1
3	Humanities	1
3	History/Government	1
6	ECON 2803 Principles of Macroeconomics and one additional course in social science	1
3	Required business computing competency	6
9	Lower-level business core courses	2 & 4
12	Lower-level electives	3
1	FIN 1521 Personal Finance Applications	7

The maximum number of lower-level (1000-2999) hours transferable to the BBA- Online Completion Degree Option is 75 semester hours.

60 Total Hours

REQUIREMENTS AFTER ADMISSION
JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS		NOTES
3	Lower-level business core course	2 & 4
3	Lower-level business core course	2 & 4
3	Lower-level business core course	2 & 4
3	Lower-level business core course	2 & 4
3	Lower-level business core course	2 & 4

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	MGMT	3133	Social Responsibility and Ethics in Business	2 & 4
3	MGMT	3153	Organizational Behavior	2 & 4
3	MKTG 3013 Principles of Marketing Management or lower-level business core course			2 & 4
3	Major elective			2 & 5
3	Major elective			2 & 5

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	FIN	3713	Business Finance	2 & 4
3	MGMT	3523	Operations Management	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	MGMT	3913	Decision Support Systems	2 & 4
3	MGMT	4813	Strategic Management	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: mathematics – MATH 2403 or higher MATH is required; social sciences – ECON 2803 is required; select one additional course, excluding ECON 2813.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog. A cumulative GPA of 2.0 is required in these courses to meet graduation requirements.
3. Electives, 12 hours. 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 lower-level business core courses: ACCT 2803, ACCT 2813, ECON 2813, LAW 2003, MGMT 1203, MGMT 2203, MGMT 2863, and STAT 2503. Students should consult with advisor regarding sequencing of prerequisites. Review business program admission requirements for standards of performance.
5. Major electives, 24 hours. Must be upper-level courses within the business program and at least three business disciplines must be represented (ACCT, COBI, ECON, FIN, LAW, MGMT, or MKTG). Consult with advisor for online options.
6. Required business computing competency may be fulfilled by successful completion of MGMT 2103 or ITA 1003, or approved substitution/transfer course.
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 score 70% or more on a challenge exam for FIN 1521

BUSINESS ADMINISTRATION MINOR
MINOR CODE: A009

A minor in business administration is available to non-business majors only. Minors and non-business students may enroll in upper-level business courses, provided they have proper prerequisites and have achieved upper-level status. However, those not majoring in business may receive credit for no more than 30 semester hours of business coursework.

The minor in business administration requires 18 hours of courses. Students must maintain a minimum GPA of 2.0. ECON 2803 Principles of Macroeconomics or ECON 2813 Principles of Microeconomics must be completed prior to entering the minor.

REQUIRED 12 HOURS:

MGMT	1203	Foundations of Business
ACCT	2803	Principles of Financial Accounting
MKTG	3013	Principles of Marketing Management
MGMT	3153	Organizational Behavior

SELECT SIX HOURS:

Upper-level electives from the following areas:

ACCT, ECON, FIN, MGMT, or MKTG

Accounting Fundamentals

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0585

Designed to demonstrate student mastery of financial statement analysis, ability to prepare and interpret firm cost data, as well as understanding of federal income tax regulations for individuals. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	ACCT	3003	Intermediate Accounting I
3	ACCT	3023	Cost Accounting
3	ACCT	4013	Tax Accounting I

9 Total Hours

Public Accounting Standards & Practices

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0586

Designed for students intending to sit for the CPA exam in the state of Arkansas. Does not guarantee that students possess the required number of non-accounting hours and a bachelor degree.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	ACCT	3013	Intermediate Accounting II
3	ACCT	3123	Governmental and Not-for-Profit Accounting
3	ACCT	4023	Advanced Accounting
3	ACCT	4053	Auditing
3	ACCT	4113	Tax Accounting II
3	ACCT	4153	Forensic Accounting or
	ACCT	467V	Internship in Accounting

18 Total Hours

Community Leadership

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0573

Designed to provide a curriculum in which students can actively learn, practice, develop, expand, and improve leadership skills and competencies. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	MGMT	3153	Organizational Behavior
3	MGMT	3613	Leadership
3	MGMT	4613	Community Leadership

9 Total Hours

Consumer Marketing

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0587

Designed for students interested in market research and developing integrated marketing communication programs to support product launches and effective product management. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	MKTG	3033	Integrated Marketing Communications
3	MKTG	3123	Consumer Behavior
3	MKTG	3133	Marketing Research

9 Total Hours

Corporate Finance

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0588

Designed for students planning to apply financial statement analysis in business decisions such as investing in capital, equity, debt securities, and in extending credit through short or long-term loans. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	FIN	3733	Financial Statement Analysis
3	FIN	4313	Capital Budgeting
3	FIN	4743	Advanced Financial Management

9 Total Hours

Digital Marketing

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0589

Designed to demonstrate mastery of three pillars of digital marketing strategy: search engine optimization (SEO), social media engagement, and web site analytics.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	MKTG	3043	E-Business Marketing
3	MKTG	4133	Social Media Marketing
3	MKTG	4143	Digital Marketing

9 Total Hours

Economic Analysis

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0590

Designed to provide analytical and critical reasoning skills necessary to interpret the decision-making process of consumers, business and governments in a market economy.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	ECON	3313	Microeconomic Analysis
3	ECON	3353	Macroeconomic Analysis
3	ECON	4343	Managerial Economics

9 Total Hours

Entrepreneurship

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0591

Designed to develop working knowledge of the key challenges and operating issues facing new startups and small enterprises. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	MGMT	3033	New Venture Creation

HOURS			
3	MGMT	4063	Launching a Small Online Business
3	MGMT	4163	Small Business Management

9 Total Hours

Human Resource Management

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0592

Designed to demonstrate knowledge in relevant federal, state, and local employee laws and regulations as well as best practices in attracting, motivating and retaining employees. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	LAW	4023	Legal Issues in Human Resources
3	MGMT	4153	Strategic Compensation
3	MGMT	4183	Human Resources Staffing

9 Total Hours

International Business

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0593

Designed to demonstrate mastery in building and managing diverse teams to maximize opportunities and overcome challenges specific to the global environment. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	MGMT	3203	Cross Cultural Relations
3	MGMT	4203	International Management
3	MKTG	4203	International Marketing

9 Total Hours

International Financial Economics

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0594

Designed for students planning to work in international financial markets; provides opportunity to develop knowledge of global policies and practice in developing risk management strategies. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	ECON	4203	International Economics

HOURS			
3	FIN	3813	Money, Banking and Financial Markets
3	ECON	4203	International Finance

9 Total Hours

Investment Securities

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 0595

Designed to provide skills necessary to analyze securities, construct portfolios, and generate security trading and order strategies. Available to all UAFS students.

Courses must be completed with a GPA of 3.0 or better.

COURSE REQUIREMENTS

HOURS			
3	FIN	3723	Investments
3	FIN	4733	Principles of Portfolio Management
3	FIN	4773	Derivative Securities and Markets

9 Total Hours

Animation Technology

BACHELOR OF SCIENCE

The bachelor of science in animation technology (BSAT) is designed for students who have completed an associate of applied science or an associate of applied technology degree, or 45 hours toward the degree, or have the permission of the dean of the college. Any student with less than 37 hours of CGT coursework will be considered for admission into the BSAT on a case by case basis.

TRANSFER STUDENT ADMISSION REQUIREMENTS:

8. Completion of 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.
9. A minimum grade point average of 2.25 and a grade of C or better in all coursework that applies toward the BSAT.
10. Transfer students or computer graphic technology (CGT) graduates four or more years past their graduation date or leaving school will be required to present an e-portfolio.

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

HOURS		NOTES
37	Career block	5

75 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
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.
3. BSAT electives, 16 hours. In consultation with advisor, select from BSAT or PRFS courses, or ART 3303; students focusing on character design should take ART 3303. BSAT 3004 is recommended for students who did not complete an associate degree in CGT-Digital Design.
4. Upper-level electives, six hours. Select from areas outside of BSAT.
5. Career block, 37 hours of approved technical-professional coursework in computer graphic technology (CGT).

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.

Students who earn an associate of applied science degree can move into a bachelor of applied science or a bachelor of science in organizational leadership

GENERAL TECHNOLOGY-AUTOMOTIVE
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4030
CONC. CODE: C013

FIRST SEMESTER - 14 HOURS

HOURS				NOTES
4	ATDI	1234	Theory and Maintenance	2
4	ATDI	1334	Braking Systems	2
3	Mathematics requirement			1
3	Computer requirement			3

SECOND SEMESTER - 14 HOURS

HOURS				NOTES
4	ATDI	1354	Suspension and Steering	2
4	ATDI	1434	Electrical Systems I	2
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1

SUMMER SEMESTER - 4 HOURS

HOURS				NOTES
4	ATDI	1584	Heating and Air Conditioning Systems	2

THIRD SEMESTER - 15 HOURS

HOURS				NOTES
4	AUTO	1284	Automotive Engines	2
4	AUTO	1384	Introduction to Manual Transmissions and Drivetrains	2
4	AUTO	1484	Engine Performance I	2
3	English Composition requirement			1

FOURTH SEMESTER - 13 HOURS

HOURS				NOTES
4	AUTO ATDI	2484 2434	Engine Performance II or Electrical Systems II	2 2
2	Technical elective			2 & 4
4	Lab Science requirement			1
3	Social Sciences requirement			1

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this 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 2.00 cumulative GPA in these courses.
3. Computer requirement. Select three credit hours from ITA 1003, 1051, 1101, 1201, or 1251.
4. Technical elective, two 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.

AUTOMOTIVE TECHNOLOGY TECHNICAL CERTIFICATE
MAJOR CODE: 4003

FIRST SEMESTER - 16 HOURS

HOURS				NOTES
4	ATDI	1234	Theory and Maintenance	
4	ATDI	1334	Braking Systems	
4	ATDI	1434	Electrical Systems I	
4	ATDI or AUTO elective			1

SECOND SEMESTER - 16 HOURS

HOURS				NOTES
4	ATDI	1354	Suspension and Steering	
4	AUTO	1484	Engine Performance I	
8	ATDI or AUTO electives			1

32 Total Hours

Notes

1. Select from ATDI or AUTO 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.

AUTOMOTIVE DRIVEABILITY SPECIALIST
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4038

HOURS			
4	ATDI	1234	Theory and Maintenance
4	ATDI	1434	Electrical Systems I
4	ATDI	1584	Heating and Air Conditioning Systems
4	AUTO	1484	Engine Performance I

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
4	AUTO	1384	Introduction to Manual Transmissions and Drivetrains

16 Total Hours

AUTOMOTIVE UNDERCAR SPECIALIST
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4037

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

16 Total Hours

Computer Graphic Technology

ASSOCIATE OF APPLIED SCIENCE DEGREE
TECHNICAL CERTIFICATE
CERTIFICATE OF PROFICIENCY

The computer graphic technology (CGT) program offers an associate of applied science degree (AAS) with concentrations in architectural, digital design, general, and mechanical. A student may receive one AAS degree in CGT. Technical certificates and certificates of proficiency are available, with the courses being applicable to the associate degree program. Students who earn an associate of applied science can move into a bachelor of science in animation technology, a bachelor of applied science, or a bachelor of science in organizational leadership.

PROGRAM AND GRADUATION REQUIREMENTS

CGT courses taken more than four years prior to entering the program will be evaluated by the college.

CGT - ARCHITECTURAL
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4004
CONC. CODE: C021

FIRST SEMESTER - 16 HOURS

HOURS				NOTES
1	CGT	1001	CAD Concepts and 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 - 14 HOURS

HOURS				NOTES
4	CGT	1284	Engineering Graphics II	2
4	CGT	2764	CAD Level II	2
3	MATH	1403	College Algebra or higher	
3	SPCH	1203	Introduction to Speech Communication	

THIRD SEMESTER - 15 HOURS

HOURS				NOTES
4	CGT	2634	Architectural Materials	2
4	CGT	2654	Architectural CAD Applications	2
4	Lab Science requirement			1
3	Social Sciences requirement			1

FOURTH SEMESTER - 15 HOURS

HOURS				NOTES
4	CGT	2624	Photoshop Applications	2
4	CGT	2994	Capstone Project	2
4	CGT	295V	Computer Graphic Technology Internship	2
3	English Composition requirement			1

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this 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.

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 - DIGITAL DESIGN
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4004
CONC. CODE: C022

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
1	CGT	1001	CAD Concepts and Applications	2
4	CGT	1234	Engineering Graphics I	2
4	CGT	1644	3D Visualization	2
3	MATH	1403	College Algebra or higher	
3	English Composition requirement			1

SECOND SEMESTER - 16 HOURS

HOURS				NOTES
3	ART	1113	Drawing	2
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. General Education Core Requirements, see Graduation Requirements section of this 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.

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 - GENERAL
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4004
CONC. CODE: C020

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 - 14 HOURS

HOURS				NOTES
4	CGT	1284	Engineering Graphics II	2
4	CGT	2764	CAD Level II	2
3	MATH	1403	College Algebra or higher	
3	SPCH	1203	Introduction to Speech Communication	

THIRD SEMESTER - 15 HOURS

HOURS		NOTES
8	CGT requirements	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	2994	Capstone Project	2
4	CGT requirement			2 & 4
3	English Composition requirement			1

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this 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 requirements, eight hours. In consultation with advisor, select two of the following: CGT 2834, 2664, UAS 1103.
4. CGT requirement, four hours. In consultation with advisor, select one of the following: CGT 2634, 2894, 2674, UAS 1203.

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 - MECHANICAL
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4004
CONC. CODE: C024

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 - 14 HOURS

HOURS				NOTES
4	CGT	1284	Engineering Graphics II	2
4	CGT	2764	CAD Level II	2
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 earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

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 - DIGITAL DESIGN TECHNICAL CERTIFICATE
MAJOR CODE: 4005
CONC. CODE: C022

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
1	CGT	1001	CAD Concepts and Applications	2
4	CGT	1234	Engineering Graphics I	2
4	CGT	1644	3D Visualization	2
3	MATH	1403	College Algebra or higher	
3	English Composition requirement			1

SECOND SEMESTER - 15 HOURS

HOURS				NOTES
4	CGT	2624	Photoshop Applications	2
4	CGT	2664	Digital Design Level I	2
4	CGT	2674	Digital Layout Level I	2
3	CGT	290V	Special Topics	2

30 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 earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

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 - GENERAL TECHNICAL CERTIFICATE
MAJOR CODE: 4005
CONC. CODE: C020

FIRST SEMESTER - 16 HOURS

HOURS				NOTES
1	CGT	1001	CAD Concepts and 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 - 14 HOURS

HOURS				NOTES
4	CGT	1284	Engineering Graphics II	2
3	CGT	2333	Fundamentals of Technical Visual Communications	2
4	CGT	2764	CAD Level II	2
3	MATH	1403	College Algebra or higher	

30 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 earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

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 - MECHANICAL TECHNICAL CERTIFICATE
MAJOR CODE: 4005
CONC. CODE: C024

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

HOURS				NOTES
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	2834	Machine Drawing and Design	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 earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

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 CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4087
CONC. CODE: CO21

HOURS			
4	CGT	1644	3D Visualization
4	CGT	2634	Architectural Materials
4	CGT	2654	Architectural CAD Applications
4	CGT	2624	Photoshop Applications

16 Total Hours

Student must maintain a cumulative GPA of 2.25 and earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

CGT - DIGITAL DESIGN CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4087
CONC. CODE: CO22

HOURS			
4	CGT	2664	Digital Design Level I
4	CGT	2674	Digital Layout Level I
4	CGT	2684	Digital Design Level II
4	CGT	2694	Digital Layout Level II

16 Total Hours

Student must maintain a cumulative GPA of 2.25 and earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

CGT - ENTRY LEVEL CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4087
CONC. CODE: CO25

HOURS			
4	CGT	1234	Engineering Graphics I
4	CGT	1644	3D Visualization
4	CGT	2744	CAD Level I
4	CGT elective - Select one course from the following:		
	CGT 1284 Engineering Graphics II CGT 2624 Photoshop Applications CGT 2654 Architectural CAD Applications CGT 2664 Digital Design Level I CGT 2764 CAD Level II CGT 2894 Parametric Modeling		

16 Total Hours

Student must maintain a cumulative GPA of 2.25 and earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

CGT - MECHANICAL CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4087
CONC. CODE: CO24

HOURS			
4	CGT	1644	3D Visualization
4	CGT	2894	Parametric Modeling
4	CGT elective		
4	CGT elective		

16 Total Hours

Student must maintain a cumulative GPA of 2.25 and earn a grade of at least a C for each course in the college based on the last grade earned in each course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

Computer Integrated Machining

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4130

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	MACH	1234	Machine Technology I	2
4	MACH	1414	Geometric Dimensions and Tolerances	2
4	MACH	1424	Introduction to Computer Aided Design (CAD)	2
3	Mathematics requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	MACH	1334	Machine Technology II	2
4	MACH	1444	Metals and Alloys	2

HOURS				NOTES
4	MACH	1454	Computer Numerical Control (CNC) I	2
3	English Composition requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	ELEC	2413	Robot Operations and Maintenance	2
1	FIN	1521	Personal Finance Applications	3
4	MACH	1434	Introduction to Computer Aided Machining (CAM)	2
4	MACH	1554	Computer Numerical Control (CNC) II	2
3	English Composition requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	
2	MACH	2202	Computer Integrated Machining Capstone	2
3	SPCH	1203	Introduction to Speech Communication	
4	Lab Science requirement			1
3	Social Sciences 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.
3. 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.

COMPUTER INTEGRATED MACHINING TECHNICAL CERTIFICATE MAJOR CODE: 4131

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	MACH	1234	Machine Technology I	
4	MACH	1414	Geometric Dimensions and Tolerances	
4	MACH	1424	Introduction to Computer Aided Design (CAD)	
3	Mathematics requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	2
4	MACH	1334	Machine Technology II	
4	MACH	1444	Metals and Alloys	
4	MACH	1454	Computer Numerical Control (CNC) I	
3	English Composition requirement			1

31 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog.
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 a score of 70% or more on a challenge exam for FIN 1521.

MACHINING TECHNOLOGY CERTIFICATE OF PROFICIENCY MAJOR CODE: 4132

HOURS			
4	MACH	1234	Machine Technology I
4	MACH	1334	Machine Technology II
4	MACH	1414	Geometric Dimensions and Tolerances

12 Total Hours

COMPUTER NUMERICAL CONTROL (CNC) MACHINING CERTIFICATE OF PROFICIENCY MAJOR CODE: 4133

HOURS			
4	MACH	1454	Computer Numerical Controls (CNC) I
4	MACH	1554	Computer Numerical Controls (CNC) II

8 Total Hours

Diesel Technology

TECHNICAL CERTIFICATE MAJOR CODE: 4055

FIRST SEMESTER - 16 HOURS

HOURS			
4	ATDI	1234	Theory and Maintenance
4	ATDI	1334	Braking Systems
4	ATDI	1434	Electrical Systems I
4	WELD	1404	MIG Welding - Basic

SECOND SEMESTER - 16 HOURS

HOURS			
4	ATDI	1354	Suspension and Steering
4	ATDI	1584	Heating and Air Conditioning Systems
4	ATDI	2434	Electrical Systems II
4	DIES	2154	Introduction to Diesel Systems

32 Total Hours

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.

Electrical Engineering Technology

BACHELOR OF SCIENCE

The bachelor of science in electrical engineering technology is a completer degree for those students who have completed the associate of applied science in electronics technology, or have completed 45 hours toward the degree, or have the permission of the dean of the college.

BACHELOR OF SCIENCE (BS) DEGREE
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

75 Total Hours

REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF SCIENCE ELECTRICAL ENGINEERING TECHNOLOGY

MAJOR CODE: 3045

JUNIOR YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	EET	3303	Wireless Systems	2
3	EET	3453	Microprocessor Applications	2
3	EET	3743	Discrete Electronics	2
1	FIN	1521	Personal Finance Applications	6
3	RHET	3603	Writing for the Workplace	
3	Upper-level elective			2 & 3

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	EET	3953	Power Electronics	2
3	PRFS	4133	Project Management	2
3	Upper-level elective			2 & 3
3	Upper-level elective			2 & 3
3	Upper- or lower-level elective			2 & 4

SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	EET	4003	Electronic System Design	2
3	EET	4113	Senior Design	2
3	ELEC	3933	Industrial Control Systems	2
3	Upper-level elective			2 & 3
2	Upper-level elective			2 & 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. Follow requirements with these stipulations: mathematics – must take MATH 1403 and MATH 2403; lab science – must take PHYS 2803/2811 and PHYS 2823/2831.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Upper-level electives, 14 hours. Five hours of upper-level free electives, and nine hours of upper-level technical coursework are required. Consult with faculty advisor.
4. Three hours of upper or lower technical elective courses must be taken from EET, ELEC courses or other approved courses.
5. Career block, 37 hours. Must complete CGT 1302 and 35 lower-level hours from ELEC, ELEG, or applicable courses with advisor approval.
6. 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.

Electronics Technology

ASSOCIATE OF APPLIED SCIENCE DEGREE
TECHNICAL CERTIFICATE
CERTIFICATE OF PROFICIENCY

Students will be required to self-purchase a lab/tool kit for use throughout the program of study. This kit includes electronic/soldering tools, lab components, analog/digital breadboard trainer, digital multimeter and other necessary items/materials for labs and projects.

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

FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
3	ELEC	1233	Fundamentals of Electricity	2
2	ELEC	1242	Introduction to Electronics Technology	2
3	ELEC	1243	Introduction to Programming	2
3	ELEC	1863	Digital Fundamentals	2
3	English Composition requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	ELEC	1263	Industrial Electricity	2
3	ELEC	1353	Electrical Circuits and Components	2
3	ELEC	1393	Solid State	2

HOURS				NOTES
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	ELEC	2243	Applied Industrial Electricity and Safety	2
3	ELEC	2413	Robot Operations and Maintenance	2
3	ELEC	2513	PLC Applications	2
3	ELEC	2733	Advanced Electronic Circuits	2
3	MATH	1403	College Algebra or higher	

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	ELEC	2423	Robot Programming II	2
3	ELEC	2753	Communication Systems	2
3	ELEC	2943	Electronics Capstone	2
4	Lab Science requirement			1
3	Social Sciences 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 2.00 for these courses and a minimum of 2.00 overall to meet graduation requirements.

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.

INDUSTRIAL ELECTRONICS AND ELECTRICAL MAINTENANCE TECHNICAL CERTIFICATE
MAJOR CODE: 4016

HOURS			
3	ELEC	1233	Fundamentals of Electricity
2	ELEC	1242	Introduction to Electronics Technology
3	ELEC	1263	Industrial Electricity
3	ELEC	1353	Electrical Circuits and Components
3	ELEC	1393	Solid State
3	ELEC	1863	Digital Fundamentals
3	ELEC	2513	PLC Applications
6	ELEC electives		

26 Total Hours

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.

INDUSTRIAL ELECTRONICS AND ELECTRICAL MAINTENANCE CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4017

HOURS			
3	ELEC	1233	Fundamentals of Electricity
2	ELEC	1242	Introduction to Electronics Technology
3	ELEC	1263	Industrial Electricity
3	ELEC	1353	Electrical Circuits and Components

11 Total Hours

General Technology

ASSOCIATE OF APPLIED SCIENCE

The general technology degree offers different concentrations in automotive, welding, journeyman, or general. Please refer to the degree plan for specifics on each concentration.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4030
CONC. CODE, OPTION 2: CO14
CONC. CODE, OPTION 3: CO52

HOURS				NOTES
6	English Composition requirement			1
3	Mathematics requirement			1
3	Social Sciences requirement			1
3	Computer requirement			3
4	Lab Science requirement			1
3	SPCH	1203	Introduction to Speech Communication	
38	Technical requirements			2 & 4

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements of this 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 2.00 cumulative GPA in these courses.
3. Computer requirement; Select three hours from ITA 1003, 1051, 1101, 1201, or 1251.
4. Technical requirements. Select option 1, 2, or 3 listed below.

Technical Requirements - Option 1

The 38 credit hours must support one of the following concentrations:

- Automotive Technology
- Welding Technology

See specific degree plans for more information

Technical Requirements - Option 2

The 38 credit hours must support the following:

- Primary Concentration - consists of 24 credit hours from one area listed below.

- Secondary Concentration(s) - consists of 14 credit hours from list below. Student will complete one 9 to 14 hour area and up to five hours of related/support courses.

Hours in the concentrations above can be selected from the following course prefixes: ATDI, AUTO, CGT, DIES, ELEC, GIPM, LEGL, OMT, WELD, WFL, or other technical areas approved by the College.

Technical Requirements - Option 3

The 38 credit hours must support the following: 24 hours of this requirement is fulfilled by the approved completion of the Journeyman's Certificate from the Bureau of Apprenticeship and Training, a division of the U.S. Department of Labor. These credit hours will be granted at the completion of all the other AAS degree requirements. The 14 remaining hours can be from the following course prefixes: ATDI, AUTO, CGT, DIES, ELEC, GIPM, LEGL, OMT, WELD, WFL, or other technical areas approved by the College.

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.

Logistics Operations

BACHELOR OF APPLIED SCIENCE IN LOGISTICS OPERATIONS

The bachelor of applied science in logistics operations (BASLO) serves students who have completed an associate of applied science (AAS) or associate of applied technology (AAT) degree.

PRE-PROGRAM REQUIREMENTS:

HOURS		NOTES
6	English Composition	1
3	Speech	1
3	Mathematics	1
8	Lab Science	1
3	Fine Arts	1
3	Humanities	1
3	History/Government	1
6	Social Sciences	1
36	Career block	4
1	FIN 1521 Personal Finance Applications	5
3	STAT 2503 Probability and Statistics I or MGMT 2963 Business Statistics or PSYC 2513 Intro to Behavioral Statistics or approved substitution	1

75 Total Hours

REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF APPLIED SCIENCE IN LOGISTICS OPERATIONS MAJOR CODE: 4103

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	LEAD	3133	Organization Ethics	2
3	PRFS	3203	Introduction to Logistics Operations	2
3	RHET	3603	Writing for the Workplace	2
3	Upper-level technical elective			2 & 3
3	Upper-level elective			3

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	PRFS	3533	Workplace and Environmental Safety	2
3	PRFS	3833	Diversity and Inclusion	2
3	PRFS	4033	Consensus Building and Continuous Improvement	2
3	PRFS	4633	Supervising Business Operations	2
3	Upper-level elective			3

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	PRFS	4133	Project Management	2
3	PRFS	4433	Quality Systems	2
3	PRFS	4703	Production Planning and Scheduling	2
3	PRFS	4903	Leading Change Project Capstone	2
3	Upper-level technical elective			2 & 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. Follow requirements with this stipulation: mathematics - six hours. MATH 1303 or MATH 1403 and one of STAT 2503/MGMT 2963/PSYC 2513 are required. Students who place directly STAT 2503 may take MATH 1303, MATH 1403, a higher level MATH course, or an approved substitution.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Elective courses, 12 hours. Consult with advisor. Six hours of upper-level courses and six hours of upper-level technical courses from EET, ELEC, LEAD, or PRFS are required.
4. Career block, 36 hours. Approved AAS or AAT degree from an accredited institution with 36 hours of technical-professional coursework.
5. 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.

LOGISTICS

CERTIFICATE OF PROFICIENCY MAJOR CODE: 4101

HOURS				NOTES
3	PRFS	4703	Production Planning and Scheduling	
3	PRFS	4713	Business Logistics	
3	PRFS	4733	Transportation and Distribution	

9 Total Hours

CONTINUOUS IMPROVEMENT
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4102

HOURS			
3	PRFS	4203	Lean Systems Implementation
3	PRFS	4433	Quality Systems
3	PRFS	4813	Lean Six Sigma Improvement

9 Total Hours

Network Engineering Technology

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4125

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	ELEC	1243	Introduction to Programming	2
3	ITA	1003	Computer Applications for the Knowledge Worker	
3	NET	1113	Cyber Devices I	2
3	NET	1163	Wiring and Cabling	2
3	Mathematics requirement			1

SECOND SEMESTER - 15 HOURS

HOURS				NOTES
3	NET	1203	Support Essentials	2
3	NET	1213	Cyber Devices II	2
3	NET	1243	Networking with Enterprise Devices	2
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1

THIRD SEMESTER - 16 HOURS

HOURS				NOTES
3	NET	2113	Microsoft Server Foundations	2
3	NET	2123	Linux Foundations	2
4	NET	2144	Configuring Network Devices	2
3	English Composition requirement			1
3	Social Science requirement			1

FOURTH SEMESTER - 14 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	3
3	NET	2243	Cloud Computing	2
3	NET	2253	Cyber Security	2
3	NET	2403	Networking Capstone	2
3	Lab Science requirement			1

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements. Follow requirements with these stipulations: lab science - must take GEOL 2653/2651 or PHSC 2713/2711.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. 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.

NETWORK ENGINEERING TECHNOLOGY
TECHNICAL CERTIFICATE
MAJOR CODE: 4126

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	
3	ELEC	1243	Introduction to Programming	
3	NET	1113	Cyber Devices I	
3	NET	1163	Wiring and Cabling	
3	Mathematics requirement			1

SECOND SEMESTER - 16 HOURS

HOURS				NOTES
3	ENGL	1203	Composition I	
1	FIN	1521	Personal Finance Applications	2
3	NET	1203	Support Essentials	
3	NET	1213	Cyber Devices II	
3	NET	1243	Foundations of Networking	
3	SPCH	1203	Introduction to Speech Communication	

31 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. 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.

SUPPORTING TECHNOLOGY
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4127

HOURS			
3	ITA	1003	Computer Applications for the Knowledge Worker
3	NET	1113	Cyber Devices I
3	NET	1203	Support Essentials
3	NET	1213	Cyber Devices II

12 Total Hours

Office Management Technology.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4105
OFFICE MANAGEMENT CONC. CODE: C040
MEDICAL OFFICE PROFESSIONAL CONC. CODE: C011

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	2
3	OMT	1203	Introduction to Office Management	2
3	English Composition requirement			1
3	Mathematics requirement			1
3	Concentration requirement or elective			2, 3 & 4

SECOND SEMESTER - 15 HOURS

HOURS				NOTES
3	OMT	1703	Advanced Computer Applications	2
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1
3	Social Science requirement			1
3	Concentration requirement or elective			2, 3 & 4

THIRD SEMESTER - 16 HOURS

HOURS				NOTES
3	OMT	2343	Office Communication Essentials	2
4	Lab Science requirement			1
3	Concentration requirement			2 & 3
3	Concentration requirement			2 & 3
3	Elective			4

FOURTH SEMESTER - 14 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	6
3	OMT	2923	Integrated Office Procedures Project	2
3	OMT	2983	Emerging Office Technologies	2
3	WFL	2733	Workplace Foundations	2
3	Concentration requirement			2 & 3
1	Lower-level elective			5

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative 2.25 GPA in these courses.
3. Select a 12 hour concentration in one of the following - office management: OMT 1653, OMT 2243, WFL 1373, and OMT 286V; medical office: OMT 2843, OMT 2853, OMT 2863, and HLTH 1473
4. Select six elective hours from the following: HLTH 2953 (if taken through WATC), OMT 290V, OMT 299V, WFL 1173, WFL 2173, WFL 2413, WFL 2503, WFL 2703, and WFL 290V. Courses from one concentration can be used by the other for elective hours. Previous coursework may be used to meet elective requirements; otherwise, students are strongly recommended to satisfy electives from the list above. Consult with advisor.
5. Lower-level elective, one hour. May take an elective or additional OMT course.
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 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	OMT	1203	Introduction to Office Management	2
3	OMT	1653	Employee Benefits	2
3	OMT	2343	Office Communication Essentials	2
3	English Composition requirement			1

SECOND SEMESTER - 16 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	4
3	OMT	1703	Advanced Computer Applications	2
3	OMT	2243	Strategic Personnel Development	2
3	English Composition requirement			1
3	Mathematics requirement			1
3	Major elective			2 & 3

31 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. Major elective, three hours. Select from OMT 2983, OMT 2843, OMT 2853, OMT 286V, OMT 290V, WFL 1373, WFL 2503, or WFL 2733.
4. 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 - MEDICAL OFFICE PROFESSIONAL OPTION

TECHNICAL CERTIFICATE
MAJOR CODE: 4109

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	2
3	OMT	1203	Introduction to Office Management	2
3	OMT	2843	Medical Insurance and Billing	2
3	OMT	2853	Medical Insurance Coding I	2
3	English Composition requirement			1

SECOND SEMESTER - 16 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	4
3	OMT	1703	Advanced Computer Applications	2
3	OMT	2863	Medical Insurance Coding II	2
3	English Composition requirement			1
3	Mathematics requirement			1
3	Major elective			2 & 3

31 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. Major elective, three hours. Select from HLTH 1473, HLTH 2953, OMT 1653, OMT 2343, OMT 2983, OMT 286V, OMT 290V, OMT 299V, WFL 1373, or WFL 2733.
4. 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.

OFFICE MANAGEMENT TECHNOLOGY - OFFICE MANAGEMENT OPTION

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4110

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	1
3	OMT	1203	Introduction to Office Management	1
3	OMT	2343	Office Communication Essentials	1
SELECT SIX HOURS FROM THE FOLLOWING				
3	OMT	1703	Advanced Computer Applications	1
3	OMT	1653	Employee Benefits	1
3	OMT	2243	Strategic Personnel Development	1
3	OMT	2983	Emerging Office Technologies	1
3	OMT	286V	Academic Internship	1
3	OMT	290V	Special Topics	1
3	WFL	2733	Workplace Foundations	1

15 Total Hours

Notes

1. Students must maintain a cumulative GPA of 2.25 for these courses.

OFFICE MANAGEMENT TECHNOLOGY - MEDICAL OFFICE PROFESSIONAL OPTION

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4111

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	1
3	OMT	1203	Introduction to Office Management	1
3	OMT	2843	Medical Insurance and Billing	1
3	OMT	2853	Medical Insurance Coding I	1
3	OMT	2863	Medical Insurance Coding II	1

15 Total Hours

Notes

1. Students must maintain a cumulative GPA of 2.25 for these courses.

OFFICE MANAGEMENT TECHNOLOGY - HUMAN RESOURCES OPTION

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4112

HOURS				NOTES
3	OMT	1203	Introduction to Office Management	1
3	OMT	1653	Employee Benefits	1
3	OMT	2243	Strategic Personnel Development	1
3	WFL	2733	Workplace Foundations	1

12 Total Hours

Notes

1. Students must maintain a cumulative GPA of 2.25 for these courses.

Organizational Leadership

BACHELOR OF SCIENCE

The bachelor of science in organizational leadership (BSOL) degree has two options. A four year degree option is available to freshman, sophomore, and transfer students.

The degree completion option is available for current and transfer students who have completed an associate degree from an accredited college or university, or completed 45 hours toward degree, or have the permission of the dean of the college. The maximum number of lower-level (1000-2000) courses hours transferable to the BSOL degree completion is 75 semester hours.

BACHELOR OF SCIENCE (BS) DEGREE - COMPLETER TRACK 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	Lower-level electives	3

75 Total Hours

REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF SCIENCE ORGANIZATIONAL LEADERSHIP

COMPLETER TRACK
MAJOR CODE: 0201

JUNIOR YEAR FALL SEMESTER - 12 HOURS

HOURS				NOTES
3	LEAD	3133	Organizational Ethics	2
3	LEAD	3603	Foundations of Organizational Leadership	2
3	PRFS	4133	Project Management	2
3	RHET	3603	Writing for the Workplace	2

JUNIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	LEAD	3623	Professional Communication	2
3	LEAD	3633	Leadership Theory	2
3	LEAD	3643	Group Dynamics	2
3	PSYC	3133	Social Psychology	2

SENIOR YEAR FALL SEMESTER - 12 HOURS

HOURS				NOTES
3	LEAD	4673	Global Complexities	2
3	LEAD	4403	Nonprofit Organizations	2
3	Upper-level elective			4
3	Upper-level elective			4

SENIOR YEAR SPRING SEMESTER - 9 HOURS

HOURS				NOTES
3	LEAD	3683	Leadership Systems	2
3	LEAD	4693	Dimensions of Organizational Leadership - Capstone	2
3	Upper-level elective			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: mathematics – must take six hours to include MATH 1403 and one additional MATH course with MATH 1403 as a prerequisite; social science – PSYC 1163 is required and select one additional course.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Lower-level electives, 37 hours.
4. Upper-level courses, nine hours. Consult with advisor. Select to ensure completion of 40 upper-level hours required for graduation.

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.

BACHELOR OF SCIENCE ORGANIZATIONAL LEADERSHIP

FOUR-YEAR TRACK
MAJOR CODE: 0202

FRESHMAN YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	PSYC	1163	General Psychology	
3	WFL	1373	Human Relations and Interpersonal Development	2
3	English Composition requirement			1
3	Fine Arts/Humanities requirement			1
3	History/Government requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	4
3	SPCH	1203	Introduction to Speech Communication	
3	WFL	1173	Total Quality Essentials	2
3	English Composition requirement			1
3	Fine Arts/Humanities requirement			1
3	Mathematics requirement			1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	GEOG ANTH	2753 2803	World Regional Geography or Cultural Anthropology	
3	LAW	2003	Legal Environment of Business	2
3	STAT MGMT PSYC	2503 2963 2513	Probability and Statistics I or Business Statistics or Introduction to Behavioral Statistics	
3	WFL	2703	The Seven Habits of Highly Effective Leaders	2
4	Lab Science requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	ECON	2803	Principles of Macroeconomics	
3	SPCH	2223	Advanced Public Speaking	2
3	WFL	2173	Introduction to Lean Enterprise Systems	2
4	Lab Science requirement			1
3	Elective			3

JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	LEAD	3133	Organization Ethics	2
3	LEAD	3603	Foundations of Organizational Leadership	2
3	PRFS	4133	Project Management	2
3	RHET	3603	Writing for the Workplace	2
3	Elective			3

JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	LEAD	3623	Professional Communication	2
3	LEAD	3633	Leadership Theory	2
3	LEAD	3643	Group Dynamics	2
3	PSYC	3133	Social Psychology	2
3	Elective			3

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	LEAD	4403	Nonprofit Organizations	2
3	LEAD	4673	Global Complexities	2
3	Elective			3
3	Elective			3
3	Elective			3

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	LEAD	3683	Leadership Systems	2
3	LEAD	4693	Dimensions of Organizational Leadership - Capstone	2
3	Elective			3
3	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. Electives, 24 hours. At least four hours must be upper-level (3000-4000) courses to ensure completion of 40 upper-level hours. Consult with advisor.
4. 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.

Robotics

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4011

COURSE REQUIREMENTS

HOURS			
3	ELEC	2413	Robot Operations and Maintenance
3	ELEC	2423	Robot Programming II
3	ELEC	3433	Robot Studio Programming

9 Total Hours

Sustainable Energy Technologies

CERTIFICATE OF PROFICIENCY

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
3	ELEC	2243	Applied Industrial Electricity and Safety
3	ELEC	2943	Electronics Capstone
1-3	ELEC	295V	Electronics Internship
3	PRFS	3533	Workplace and Environmental Safety
1-3	PRFS	495V	Professional Studies Internship

9 -10 Total Hours

Unmanned Aerial Systems

ASSOCIATE OF APPLIED SCIENCE DEGREE

UNMANNED AERIAL SYSTEMS
MAJOR CODE: 4120
ANALYST CONC. CODE: C054
OPERATIONS CONC. CODE: C053

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	UAS	1003	Introduction to Unmanned Systems	2
3	UAS	1103	Introduction to Geographic Information Systems	2
3	English Composition requirement			1
3	Concentration requirement			2 & 3
3	Concentration requirement			2 & 3

SECOND SEMESTER - 15 HOURS

HOURS				NOTES
3	UAS	1143	UAS Pilot Flight Operations	2
3	UAS	1203	GPS and GNSS Fundamentals	2
3	UAS	1213	Computer Hardware	2

HOURS				NOTES
3	Mathematics requirement			1
3	Concentration requirement			2 & 3

THIRD SEMESTER - 15 HOURS

HOURS				NOTES
3	GEOG	2753	World Regional Geography	
4	UAS	2124	Multi-Rotor Flight Lab	2
1	FIN	1521	Personal Finance Applications	4
3	Concentration requirement			2 & 3
4	Lab Science requirement			1

FOURTH SEMESTER - 15 HOURS

HOURS				NOTES
3	SPCH	1203	Introduction to Speech Communication	
3	UAS	2343	UAS Remote Sensing	2
3	UAS	2443	UAS Aerial Imaging	2
3	English Composition requirement			1
3	Concentration requirement			2 & 3

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with the following stipulations: lab science - select from GEOL 1253/1251 or GEOL 2653/2651.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Select 15 hour concentration in one of the following – operations: ELEC 1233, ELEC 1242, ELEC 1353, UAS 2113, UAS 2243, ITA 1251 (ITA 1003 may be used to complete this requirement if completed previously); analyst: ELEC 1243, UAS 2003, UAS 2123, UAS 2203, UAS 2223.
4. 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.

UNMANNED AERIAL SYSTEMS - DATA ANALYSIS TECHNICAL CERTIFICATE
MAJOR CODE: 4123

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	UAS	1003	Introduction to Unmanned Systems	2
3	UAS	1103	Introduction to Geographic Information Systems	2
3	UAS	1143	UAS Pilot Flight Operations	2
3	English Composition requirement			1
3	Mathematics requirement			1

SECOND SEMESTER - 14 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	3
3	SPCH	1203	Introduction to Speech Communication	
3	UAS	1203	GPS and GNSS Fundamentals	2
3	UAS	2003	GIS Analysis	2
4	UAS	2124	Multi-Rotor Flight Lab	2

29 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. English Composition requirement - select ENGL 1203 or ENGL 1233.
2. Student must maintain a 2.00 cumulative GPA in these courses.
3. 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.

UNMANNED AERIAL SYSTEMS - FLIGHT OPERATIONS TECHNICAL CERTIFICATE
MAJOR CODE: 4122

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	ELEC	1233	Fundamentals of Electricity	2
2	ELEC	1242	Introduction to Electronics Technology	2
1	FIN	1521	Personal Finance Applications	3
3	UAS	1003	Introduction to Unmanned Systems	2
3	UAS	1143	UAS Pilot Flight Operations	2
3	English Composition requirement			1

SECOND SEMESTER - 13 HOURS

HOURS				NOTES
3	SPCH	1203	Introduction to Speech Communication	
3	UAS	1103	Introduction to Geographic Information Systems	2
4	UAS	2124	Multi-Rotor Flight Lab	2
3	Mathematics requirement			1

28 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. English Composition requirement - select ENGL 1203 or ENGL 1233.
2. Student must maintain a 2.00 cumulative GPA in these courses.
3. 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.

UNMANNED AERIAL SYSTEMS CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4121

HOURS			
3	UAS	1003	Introduction to Unmanned Systems
3	UAS	1143	UAS Pilot Flight Operations
4	UAS	2124	Multi-Rotor Flight Lab

10 Total Hours

Welding

GENERAL TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4030
CONC. CODE: C012

FIRST SEMESTER - 14 HOURS

HOURS				NOTES
4	WELD	1234	Introduction to Welding and Print Reading	2
4	WELD	1454	Layout and Fabrication - Sheet Metal	2
3	Mathematics requirement			1
3	Computer requirement			3

SECOND SEMESTER - 14 HOURS

HOURS				NOTES
3	SPCH	1203	Introduction to Speech Communication	
4	WELD	1384	TIG Welding - Basic	2
4	WELD	1404	MIG Welding - Basic	2
3	English Composition requirement			1

SUMMER SEMESTER - 4 HOURS

HOURS		NOTES
4	Advanced WELD elective	2 & 4

THIRD SEMESTER - 15 HOURS

HOURS				NOTES
4	WELD	1284	Arc Welding - Basic	2
4	WELD	1474	Layout and Fabrication - Structural and Pipe	2
4	Advanced WELD elective			2 & 4
3	Social sciences requirement			1

FOURTH SEMESTER - 13 HOURS

HOURS		NOTES
4	Advanced WELD elective	2 & 4
2	Advanced WELD elective	2 & 4
3	English Composition requirement	1
4	Lab Science requirement	1

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this 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 2.00 cumulative GPA in these courses.
3. Computer requirement. Select three credit hours from ITA 1003, 1051, 1101, 1201, or 1251.
4. Select advanced WELD electives from the following in consultation with advisor: WELD 2282, 2284, 2384, 2402, 2404.

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.

TECHNICAL CERTIFICATE
MAJOR CODE: 4029

FIRST SEMESTER - 16 HOURS

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

SECOND SEMESTER - 16 HOURS

HOURS				NOTES
4	WELD	1284	Arc Welding - Basic	
4	WELD	1384	TIG Welding - Basic	
4	WELD	1474	Layout and Fabrication - Structural and Pipe	
4	Advanced WELD elective			1

32 Total Hours

Notes

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

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.

ARC WELDING CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4047

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

12 Total Hours

MIG WELDING CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4045

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

HOURS			
4	WELD	2404	MIG Welding - Advanced

12 Total Hours

TIG WELDING CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4046

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

12 Total Hours

WELDING LAYOUT AND FABRICATION CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4048

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

12 Total Hours

Workforce Leadership

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

FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	WFL	1173	Total Quality Essentials	2
3	WFL	1373	Human Relations and Interpersonal Development	2
3	WFL ITA	1703 1003	Basic Business Communication Using Microsoft Office or Computer Applications for the Office Worker	2
3	WFL	2173	Introduction to Lean Enterprise Systems	2
3	SPCH	1203	Introduction to Speech Communication	

SECOND SEMESTER - 15 HOURS

HOURS				NOTES
3	WFL	1183	Occupational Safety	2
3	WFL	2733	Workforce Foundations	2
3	English Composition requirement			1
3	Mathematics requirement			1
3	Social Science requirement			1

THIRD SEMESTER - 16 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	5
3	WFL	2303	Lean Six Sigma Strategies	2
3	WFL	2703	The Seven Habits of Highly Effective Leaders	2
3	English Composition requirement			1
3	Elective			4
3	WFL electives			2 & 3

FOURTH SEMESTER - 14 HOURS

HOURS				NOTES
3	WFL	2903	Workforce Leadership Capstone	2
4	Lab science requirement			1
7	WFL electives			2 & 3

60 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one social sciences course.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a 2.00 cumulative GPA in these courses.
3. WFL electives, 10 hours. In consultation with advisor, select from WFL 2403, 2413, 2501, 2503,2583, 2713, 2723, 2743, 280V, 2852, or 290V.
4. Electives, three hours. Select any lower-level course in consultation with advisor.
5. 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.

TECHNICAL CERTIFICATE
MAJOR CODE: 4041

FIRST SEMESTER COURSES - 9 HOURS

HOURS				NOTES
3	WFL	1173	Total Quality Essentials	
3	WFL	1373	Human Relations and Interpersonal Development	
3	WFL	2173	Introduction to Lean Enterprise Systems	

SECOND SEMESTER COURSES - 13 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	2
3	WFL	2733	Workforce Foundations	
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1
3	Mathematics requirement			1

22 Total Hours

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. 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.

CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4040

HOURS			
3	WFL	1173	Total Quality Essentials
3	WFL	1373	Human Relations and Interpersonal Development
3	WFL	2173	Introduction to Lean Enterprise Systems

9 Total Hours

COLLEGE OF HEALTH, EDUCATION, AND HUMAN SCIENCES

The College of Health, Education, and Human Sciences offers the degrees, majors, and minors indicated below.

BACHELOR OF ARTS (BA) DEGREE

- Psychology

BACHELOR OF SCIENCE (BS) DEGREE

- Dental Hygiene
- Elementary Education
- Imaging Science - Diagnostic Medical Sonography
- Imaging Science - Leadership
- Middle Childhood Education
- Nursing

The School of Education, in partnership with the College of Arts and Sciences, offers the following programs:

- Biology with Life Science Teacher Licensure 7-12
- English with Teacher Licensure 7-12
- History with Social Studies Teacher Licensure 7-12
- Mathematics with Teacher Licensure 7-12
- Music Education
  - Instrumental Music K-12
  - Vocal Music K-12

BACHELOR OF SOCIAL WORK (BSW) DEGREE

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

- Early Childhood Education
- Radiography
- Surgical Technology

MINORS

- Psychology
- Social Work

TECHNICAL CERTIFICATE

- Early Childhood Education
- Practical Nursing (open only to eligible high school students enrolled in the Western Arkansas Technical Center)

CERTIFICATE OF PROFICIENCY

- Early Childhood Education
- Emergency Medical Technology

TEACHER ENDORSEMENT

- Pre-K, Age 3-4
- Special Education Resource Teacher K-6, 7-12
- Teaching English as a Second Language

HEALTH

ADMISSION TO HEALTH SCIENCES PROGRAMS

Admission into health science programs is highly competitive and selective. Meeting the minimum criteria for admission or taking required courses from a designated degree plan does not guarantee admission into a program. Preadmission examinations are required for some programs, and students must register in advance for scheduled testing dates. A grade of C or better is required in all courses applicable to health science degrees. Once admitted into any College of Health Science program, all courses on the program's degree plan must be completed in residence.

Many clinical facilities require a criminal background check and/or drug screen on CHS students and have the authority to deny clinical training in their facility, secondary to the outcome of either screening. Students unable to practice in any clinical agency because of 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.

The College of Health, Education, and Human Sciences recognizes its responsibility to provide a healthy environment within which students may learn and prepare themselves to become members of the healthcare profession. The College is committed to protecting the safety, health, and welfare of faculty, staff, and students, and people who come into contact with

them during scheduled learning experiences. A policy for the prevention and management of substance abuse has been adopted to assure attainment of the educational mission of the University and the College. For more information, contact the College at (479) 788-7841.

Dental Hygiene

BACHELOR OF SCIENCE DEGREE

Graduates of the dental hygiene program serve as consumer advocates for oral healthcare. They are an integral part of the dental team, able to provide instruction and therapeutic services in the prevention of oral diseases. The curriculum combines general education courses, science courses and professional courses. Students experience didactic, laboratory, and clinical education. Successful completion of the program prepares the graduate for the regional clinical board examination and to write the National Board Examination to become a registered dental hygienist.

ADMISSION 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 and universities attended.
2. Have a minimum 2.50 cumulative GPA for all college course work (including transfer work and excluding developmental courses) and be in good academic standing.
3. Complete required prerequisite courses for the dental hygiene program with a minimum of C or higher in each course prior to the application deadline.
4. Take the Psychological Services Bureau (PSB) Health Occupations Aptitude Examination. Scores are valid for up to two years.
5. Submit Dental Office Observation Verification Form (verification forms may be used for two years after the dates of observation).
6. Students may not attempt any course more than twice and be eligible for admission into the dental hygiene program.

NOTE: The application process for the dental hygiene program requires a criminal background check. Licensure in Arkansas also requires a state and federal criminal background check.

APPLICATION

Students who meet the above criteria are eligible to apply for admission. Applications can be found online and must be submitted by the date as determined by the program.

SELECTION

Selection is based on the following weighted system:

Phase One

- Quality points earned for prerequisites and any additional courses on the BS dental hygiene degree plan (college credit earned through CLEP or AP for a course will not be used for ranking purposes) - 40%
- Score earned on the PSB Exam - 30%
- Cumulative GPA - 30%

NOTE: In the event applicants have identical ranking scores, priority will be given to the student with the highest cumulative GPA. The top 25 applicants after Phase One of the selection process will proceed to Phase Two.

Phase Two

- Interview

Students admitted into the Dental Hygiene 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 for Healthcare Providers (BLS)
4. Criminal background check
5. Drug screen

DENTAL HYGIENE
BACHELOR OF SCIENCE DEGREE
MAJOR CODE: 2062

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
4	CHEM	1303 1301	Chemical Principles Chemical Principles Lab	4 & 5
3	PSYC	1163	General Psychology	4
3	SPCH	1203	Introduction to Speech Communication	4
3	English Composition requirement			1 & 4
3	Mathematics requirement			1 & 4

FRESHMAN YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
4	BIOL	2503 2501	General Microbiology General Microbiology Lab	4 & 5
3	English Composition requirement			1 & 4
3	Fine Arts/Humanities requirement			1
2	ITA requirement			3 & 4

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
4	BIOL	2203 2201	Human Anatomy Human Anatomy Lab	4 & 5
3	RHET	3203	Textual Research Methods	4
3	MCOM	2223	Communication Theory	4
3	SOCI	2753	Introduction to Sociology	4
3	Fine Arts/Humanities requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
4	BIOL	2213 2211	Human Physiology Human Physiology Lab	4 & 5
3	PSYC	2963	Developmental Psychology: A Life Span	4
4	SPAN	1304	Beginning Spanish I	4
3	STAT	2503	Probability and Statistics I	4
3	History/Government requirement			1

JUNIOR YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
1	DHYG	2111	Dental Anatomy and Occlusion	2
3	DHYG	2313	Radiology	2
2	DHYG	2432	Head and Neck Anatomy	2
2	DHYG	3102	Pre-Clinical Dental Hygiene	2
3	DHYG	3103	Pre-Clinical Dental Hygiene Theory	2
2	DHYG	3412	Oral Embryology and Histology	2
3	HLTH	4103	Research in the Health Sciences	

JUNIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
3	DHYG	3113	Clinic I Theory	2
2	DHYG	3212	Periodontology I	2
3	DHYG	3213	Dental Hygiene Clinic I	2
3	DHYG	3443	Pharmacology	2
3	DHYG	3453	General and Oral Pathology	2

SENIOR YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
2	DHYG	4122	Clinic II Theory	2
2	DHYG	4142	Advanced Dental Hygiene Theory for Special Needs Patients	2
4	DHYG	4224	Dental Hygiene Clinic II	2
1	DHYG	4311	Periodontology II	2
2	DHYG	4372	Dental Nutrition	2
3	DHYG	4463	Dental Materials	2
2	DHYG	4512	Local Anesthesia and Nitrous Oxide	2

SENIOR YEAR SPRING SEMESTER - 13 HOURS

HOURS				NOTES
2	DHYG	4132	Clinic III Theory	2
4	DHYG	4234	Dental Hygiene Clinic III	2
2	DHYG	4522	Ethics and Practice Management	2
3	DHYG	4533	Community Dentistry and Dental Health Education	2
2	DHYG	4542	Public Health Dentistry	2

120 Total Hours

At least 40 hours must be upper level

Notes

1. General Education Core requirements, see Graduation Requirements section of this catalog with the following stipulation: mathematics - MATH 1403 or mathematics with MATH 1403 as a prerequisite.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog. Enrollment in courses beginning with the DHYG prefix requires admission to the dental hygiene program.
3. ITA requirement, two hours. Select from ITA 1101, 1201, or 1251.
4. These courses must be completed prior to entrance into the dental hygiene program.
5. Science courses taken more than five years prior to program application may not be eligible. 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.

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.

Dental Hygiene - AAS to BS Dental Hygiene Online Completion

BACHELOR OF SCIENCE DEGREE

The AAS-BSDH online completion program is designed for students who have completed an associate degree in dental hygiene from an accredited dental hygiene program and desire to advance their education toward a baccalaureate degree.

ADMISSION REQUIREMENTS

1. Complete all university admission requirements including submission of official transcripts from all colleges and universities attended.
2. Submit official transcript showing completion of an associate degree in dental hygiene from a CODA accredited program.
3. Have a minimum 2.50 cumulative GPA for all college course work (including transfer work and excluding developmental courses) and be in good academic standing.
4. Complete prerequisite courses for the program with a minimum grade of C or higher in each course prior to fall or spring entry.
5. Have a current unencumbered dental hygiene license with a local anesthesia permit in their state of residence that must be maintained throughout the completion of the AAS-BSDH program.

APPLICATION

Students who meet the above criteria are eligible to apply for admission. Applications can be found online and must be submitted by the date as determined by the program.

AAS TO BACHELOR OF SCIENCE IN DENTAL HYGIENE REQUIREMENTS
MAJOR CODE: 2063

PRE-PROGRAM REQUIREMENTS

HOURS		NOTES
6	English Composition	1
3	Speech	1
3	Mathematics	1
16	Lab Science	1 & 5
6	Social Sciences	1
2	Computer requirement	3
52	Dental hygiene credit for licensure held in escrow	6

88 Total Pre-Program Hours

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	PSYC	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	MCOM	2223	Communication Theory	2
3	STAT	2503	Probability and Statistics I	2

SPRING SEMESTER - 14 HOURS

HOURS				NOTES
2	DHYG	4542	Public Health Dentistry	2 & 4
3	HLTH	4103	Research in the Health Sciences	2 & 4
3	PSYC	2963	Developmental Psychology: A Life Span	2
3	Fine Arts requirement			1
3	Humanities requirement			1

SUMMER - 3 HOURS

HOURS				NOTES
3	History/Government requirement			1

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 stipulations: mathematics - MATH 1403 or mathematics with MATH 1403 as a prerequisite; lab science, 16 hours - BIOL 2203/2201, BIOL 2213/2211, BIOL 2503/2501, and CHEM 1303/1301 are required; social sciences, six hours - PSYC 1163 and SOCI 2753 are required.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. ITA requirement, two hours. Select from ITA 1101, 1201, or 1251.
4. Enrollment in courses beginning with the DHYG or HLTH prefix requires admission to the dental hygiene program or the dental hygiene online completion program.
5. Science courses taken more than five years prior to program application may not be eligible. See advisor for more information and to request a science course evaluation.
6. Credit for dental hygiene licensure will be held in escrow. The student will receive credit for the following courses upon successful completion of the program: 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 Theory, DHYG 3412 Oral Embryology and Histology, DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, DHYG 3453 General and Oral Pathology, DHYG 4122 Clinic II Theory, DHYG 4132 Clinic III Theory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4234 Dental Hygiene Clinic III, DHYG 4311 Periodontology II, DHYG 4372 Dental Nutrition, DHYG 4463 Dental Materials, DHYG 4512 Local Anesthesia and Nitrous Oxide, DHYG 4522 Ethics and Practice Management, and DHYG 4533 Community Dentistry and Dental Health Education.

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

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.

Emergency Medical Technology (EMT) - Basic

This is an introductory course of study of emergency medical service systems and the basic principles of emergency care. Through didactic and clinical instruction, the EMT-Basic student is prepared for the National Registry EMT-Basic written and practical examinations.

Students will be prepared to be proficient in practical skills used in medical and trauma-related emergencies, such as airway management, patient assessment, spinal immobilization, oxygen therapy, defibrillation with AED (automatic external defibrillator), and patient-assisted medication administration. Students must complete an application to enter UAFS in order to register for this program.

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

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

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

Students who meet the above criteria are eligible to apply for admission. Applications can be found online and must be submitted by the date as determined by the program.

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)

HOURS				NOTES
3	ISS	4303	Obstetrical and Gynecological Sonography I	2
3	ISS	4323	Clinical Practice II	2
3	IS	3203	Perspectives in Human Diversity	2

FALL SEMESTER - 13 HOURS

HOURS				NOTES
3	ISS	4413	Abdominal Sonography II	2
3	ISS	4403	Pathophysiology and Special Applications	2
4	ISS	4434	Clinical Practice III	2
3	ISS	4433	Vascular Sonography II	2

SPRING SEMESTER - 11 HOURS

HOURS				
3	ISS	4513	Obstetrical and Gynecological Sonography II	2
1	ISS	4501	Professional Seminar	2
4	ISS	4544	Clinical Practice IV	2
3	IS	3113	Patient Information Management	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. Follow requirements with these stipulations: mathematics - MATH 1403 or mathematics course with MATH 1403 as a prerequisite; lab science - must take BIOL 2203/2201 and BIOL 2213/2211.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog. Students must meet admission requirements and be officially admitted into the BSIS-DMS program.
3. Student must be admitted into an imaging science program.
4. Credit for coursework in other imaging sciences programs will be held in escrow. Student will receive credit upon successful completion of the program.
5. Science courses taken more than five years prior to program application may not be eligible. 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.

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.

Imaging Sciences - Leadership

BACHELOR OF SCIENCE (BS) DEGREE

ADMISSION REQUIREMENTS

1. Completion of all university admission requirements to including submission of official transcripts from all colleges / universities attended.
2. Have a minimum 2.5 cumulative grade point average (GPA) for all college course work (including transfer work and excluding developmental courses) and be in good academic standing.
3. Completion of all required prerequisite courses for the program with a minimum grade of C or higher in each course prior to fall entry.
4. Submit an official transcript showing successful completion of one of the following:
    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
3	IS	3103	Legal and Ethical Considerations in Healthcare	2
3	IS	3113	Patient Information Management	3
3	IS	3203	Perspectives in Human Diversity	3
3	ISL	4203	Leadership Principles and Theories	2
3	ISL	4213	Leadership Practicum	2

SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	ISL	4223	Contemporary and Critical Topics in Healthcare: A Global Perspective	2
3	ISL	4303	Technological Advancements in Medical Imaging	2
3	ISL	4403	Independent Study in Imaging Sciences	2
3	ISL	4423	Risk Management	2
3	ISL	4503	Internship in Imaging Sciences	2

SUMMER TERM - 9 HOURS (10 WEEKS)

HOURS				NOTES
3	ISL	4313	Healthcare System	2
3	ISL	4413	Administration and Supervision in Diagnostic Imaging	2
3	ISL	4513	Applied Research	2

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: mathematics - must take MATH 1403 or mathematics with MATH 1403 as a prerequisite and STAT 2503; lab science - select two courses from the following: BIOL 1153/1151, 2203/2201, 2213/2211, 2503/2501; CHEM 1303/1301, CHEM 1403/1401, CHEM 1413/411, GEOL 1253/1251, GEOL 2653/2651, PHSC 2713/2711, PHYS 2803/2811, 2823/2831, 2903/2911, 2923/2931.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog. Students must meet admission requirements and be officially admitted into the BSIS-Leadership Program.
3. Student must be admitted into an imaging science program.
4. Credit for coursework in other imaging sciences programs will be held in escrow. Student will receive credit upon successful completion of the program.
5. Science courses taken more than five years prior to program application may not be eligible. 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.

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, night, and weekend hours to provide optimal learning experiences.

The Arkansas State Board of Nursing (ASBN) requires criminal background checks on graduates of nursing schools and has the authority to deny application for licensure to any person who has been convicted of a crime. The Arkansas State Board of Nursing Nurse Practice Act can be viewed, in its entirety, at the ASBN website.

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

The BSN program is accredited by the Commission on Collegiate Nursing Education (CCNE), and is approved by the Arkansas State Board of Nursing (ASBN). On an annual basis, the School of Nursing provides the CCNE with information regarding tuition, fees, and the length of the program. The CCNE may be contacted at 655 K Street, NW, Suite 750, Washington, DC 20001, (202) 887-6791.

ADMISSION REQUIREMENTS

1. Complete university admission requirements to include submission of official transcripts from all colleges/universities attended.
2. Have a minimum 2.50 cumulative GPA for all college course work (including transfer work and excluding developmental courses) and be in good academic standing.
3. Complete required prerequisite courses for the program with a minimum grade of C or higher in each course prior to fall or spring entry; prerequisite courses are the first three semesters as listed on the degree plan for a total of 43 hours.
4. Students may not attempt any course more than twice and be eligible for admission to the nursing program.
5. Science courses taken more than five years prior to program application may not be eligible. See advisor for more information and to request a science course evaluation.

APPLICATION

Students who meet the above criteria are eligible to apply for admission. Applications can be found online and must be submitted by the date as determined by the program.

SELECTION

Selection is based on successful completion of the admission criteria and is a highly competitive process. Those with higher GPAs may rank higher in selection.

Students admitted into the BSN program must submit the following additional documentation prior to fall or spring entry:

1. Health Care Provider Statement/Medical Release form.
2. Proof of immunizations.
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 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.

BACHELOR OF SCIENCE IN NURSING DEGREE REQUIREMENTS MAJOR CODE: 2018

FRESHMAN YEAR FIRST SEMESTER - 16 HOURS

HOURS				NOTES
4	CHEM	1303 1301	Chemical Principles Chemical Principles Lab	3 & 4
3	PSYC	1163	General Psychology	3
3	SPCH	1203	Introduction to Speech Communication	3
3	Mathematics requirement			1 & 3
3	English Composition requirement			1 & 3

FRESHMAN YEAR SECOND SEMESTER - 13 HOURS

HOURS				NOTES
4	BIOL	2203 2201	Human Anatomy Human Anatomy Lab	3 & 4
3	PSYC	2963	Developmental Psychology: A Life Span	3
3	English Composition requirement			1 & 3
3	Social Sciences requirement			1 & 3

SOPHOMORE YEAR FIRST SEMESTER - 14 HOURS

HOURS				NOTES
4	BIOL	2503 2501	General Microbiology General Microbiology Lab	3 & 4
4	BIOL	2213 2211	Human Physiology Human Physiology Lab	3 & 4
3	Fine Arts requirement			1 & 3
3	History/Government requirement			1 & 3

Required admission into the BSN program. Admission is selective

SOPHOMORE YEAR SECOND SEMESTER - 13 HOURS

HOURS				NOTES
3	NURS	2103	Introduction to Professional Nursing	2

HOURS				NOTES
3	HLTH	3103	Pathophysiology	2
4	NURS	3164	Health Assessment	2
3	Humanities requirement			1

JUNIOR YEAR FIRST SEMESTER - 16 HOURS

HOURS				NOTES
3	NURS	3113	Nursing Skills	2
7	NURS	3227	Foundations of Nursing Care	2
3	NUTR	2523	Nutrition	
3	PHAR	3203	General Pharmacology	

JUNIOR YEAR SECOND SEMESTER - 16 HOURS

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

SENIOR YEAR FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	HLTH	4103	Research in the Health Sciences	2
12	NURS	434C	Nursing Care of the Adult II	2

SENIOR YEAR SECOND SEMESTER - 17 HOURS

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

120 Total Hours

At least 40 hours must be upper level

Notes

1. General Education Core Requirements, see Graduation Requirements of this catalog. Follow requirements with these stipulations: mathematics - MATH 1403 or mathematics with MATH 1403 as a prerequisite; social sciences-select one course excluding PSYC 1163.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must be admitted into the program.
3. Courses required for admission to the BSN program. Students must meet admission requirements and be officially admitted into the BSN Program.
4. Science courses taken more than five years prior to program application may not be eligible. 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.

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.

Nursing - Accelerated BSN

BACHELOR OF SCIENCE IN NURSING ACCELERATED DEGREE

Graduates of the accelerated BSN program are prepared to provide nursing care for individuals, families, populations, and communities within a variety of healthcare settings and to use evidence-based practice to guide nursing interventions which promote, maintain, and restore health. Admission to the program is competitive and selective, and graduates are prepared to sit for the National Council Licensing Examination for Registered Nurses (NCLEX-RN) upon successful completion of the program. Theory, laboratory and clinical practice may be scheduled in the morning, afternoon, evening, night, and weekend hours to provide optimal learning experiences. Multiple educational strategies and modalities will be utilized to maximize learning.

The Arkansas State Board of Nursing (ASBN) requires criminal background checks on graduates of nursing schools and has the authority to deny application for licensure to any person who has been convicted of a crime. The Arkansas State Board of Nursing Nurse Practice Act can be viewed, in its entirety, at the ASBN website.

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 an adverse or negative background check or positive drug screen will be unable to complete the program objectives, thereby revoking admission into a program or halting continued progression in the student's program of study.

The BSN program is accredited by the Commission on Collegiate Nursing Education (CCNE), and is approved by the Arkansas State Board of Nursing (ASBN). On an annual basis, the School of Nursing provides the CCNE with information regarding tuition, fees, and the length of the track program. The CCNE may be contacted at 655 K Street, NW, Suite 750, Washington, DC 20001, (202) 887-6791.

ADMISSION REQUIREMENTS

1. Complete university admission requirements to include submission of official transcripts from all colleges/ universities attended.
2. Have a minimum 2.50 cumulative GPA for all college course work (including transfer work and excluding developmental courses) and be in good academic standing.
3. Complete required prerequisite courses for the program with a minimum grade of C or higher in each course prior to fall or spring entry; prerequisite courses are the first three semesters as listed on the degree plan for a total of 43 hours.
4. Students may not attempt any course more than twice and be eligible for admission to the nursing program.
5. Science courses taken more than five years prior to program application may not be eligible. See advisor for more information and to request a science course evaluation.

APPLICATION

Students who meet the above criteria are eligible to apply for admission. Applications can be found online and must be submitted by the date as determined by the program.

SELECTION

Selection is based on successful completion of the admission criteria and is a highly competitive process. Those with higher GPAs may rank higher in selection.

Students admitted into the BSN program must submit the following additional documentation prior to fall or spring entry:

1. Health Care Provider Statement/Medical Release form.
2. Proof of immunizations.
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 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 & 5
3	Speech	1, 3 & 5
6	Mathematics	1, 3 & 5
16	Lab Science	1, 3, 4 & 5
3	Fine Arts	1, 3 & 5
3	Humanities	1, 3 & 5
3	History/Government	1, 3 & 5
6	Social Sciences	1, 3 & 5
3	HLTH 3103 Pathophysiology	2, 3, 4 & 5
3	HLTH 4103 Research in the Health Sciences	2, 3 & 5
3	NUTR 2523 Nutrition	3 & 5
3	PHAR 3203 General Pharmacology	3 & 5
3	PSYC 2963 Developmental Psychology: A Life Span	3 & 5

61 Total Pre-Program Hours

SUGGESTED PROGRAM COMPLETION PLAN

FALL SEMESTER - 17 HOURS

HOURS				NOTES
3	NURS	2103	Introduction to Professional Nursing	2
3	NURS	3113	Nursing Skills	2
4	NURS	3164	Health Assessment	2
7	NURS	3227	Foundations of Nursing Care	2

SPRING SEMESTER - 13 HOURS

HOURS				NOTES
6	NURS	3236	Nursing Care of Women and Children	2
7	NURS	3337	Nursing Care of the Adult I	2

SUMMER - 12 HOURS

HOURS				NOTES
12	NURS	434C	Nursing Care of the Adult II	2

FALL SEMESTER - 17 HOURS

HOURS				NOTES
5	NURS	4355	Nursing Care of the Critically Ill Adult	2
4	NURS	4364	Leadership in Professional Nursing	2
8	NURS	4458	Psychiatric and Community Health Nursing	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 stipulations: mathematics - MATH 1403 or mathematics with MATH 1403 as a prerequisite and STAT 2503; lab science, 16 hours - BIOL 2203/2201, BIOL 2213/2211, BIOL 2503/2501, and CHEM 1303/1301 are required; social sciences, six hours - PSYC 1163 and SOCI 2753 are required.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Courses required for admission to the accelerated BSN program, Students must meet admission requirements and be officially admitted into the accelerated BSN program.
4. Science courses taken more than five years prior to program application must be evaluated and may not be eligible. See advisor for more information and to request a science course evaluation.
5. Students who are unsuccessful in their first attempt may seek admission to the traditional BSN program with permission from the executive director of nursing.

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

Practical Nursing (PN)

TECHNICAL CERTIFICATE

The practical nursing (PN) program is offered through the Western Arkansas Technical Center (WATC)and the College of Health, Education, and Human Sciences, and is open only to eligible students enrolled in WATC. It offers a technical

certificate in practical nursing that combines classroom instruction with clinical experiences in the care of clients at local healthcare facilities. Upon successful completion of the program, graduates are eligible to apply for the National Council Licensure Examination (NCLEX-PN) when they reach 18 years of age. The PN Program is approved by the Arkansas State Board of Nursing (ASBN).

Admission into the practical nursing program is competitive. Students must have college-ready scores on standardized admission tests such as ACT, Compass, or Accuplacer and make a minimum score of 200 on the PSB-HOAE.

Parental consent is required to participate in the practical nursing program. Students are not eligible to take the NCLEX-PN licensing examination until they are 18 years of age.

Note: The application process for PN licensure requires a state and federal criminal background check. Students who have been convicted of a crime, including those that are sealed or expunged, must seek permission from the ASBN to write the licensure exam to become a license practical nurse.

ADMISSION REQUIREMENTS

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

1. Complete university admission requirements to include submission of official transcripts from all colleges/ universities attended
2. Meet minimum skill levels in English, reading, and math according to one of the following criteria (scores must be available by application deadline.):
   a. ACT, Aspire, COMPASS, SAT, or Accuplacer English scores (taken within the last two years) or course work indicating placement into ENGL 0263 or higher.
   b. ACT, Aspire, COMPASS, SAT, or Accuplacer reading scores (taken within the last two years) or course work indicating placement into ENGL 0263 or higher.
   c. ACT, Aspire, COMPASS, SAT, or Accuplacer math scores (taken within the last two years) or course work indicating placement into MATH 0304 or higher.
3. Have a minimum 2.00 cumulative GPA for all high school and college course work (including transfer work and excluding developmental courses) and be in good academic standing.
4. Students may not attempt any course more than twice and be eligible for admission into the nursing program.
5. Complete the Psychological Services Bureau Health Occupations Aptitude Examination (PSB HOAE) with a minimum score of 200.

SELECTION

Selection is based on the following system:

- Quality points earned for courses on PN degree plan (college credit earned through CLEP or AP for a course will not be used for ranking purposes).
- Score earned on the Psychological Services Bureau (PSB) Health Occupations Aptitude Examination (HOAE). The PSB HOAE is required for admission and will be administered on the UAFS campus each fall; the test can only be taken once a year.

Note: In the event that applicants have identical ranking scores, priority will be given to the student with the highest cumulative grade point average. Top applicants will be offered positions for the available seats in the PN Program. Meeting the minimum criteria for admission or taking courses on the PN degree plan does not guarantee admission into the program.

Students admitted into the PN program must submit the following additional documentation:

1. Healthcare Provider Statement/Medical Release form
2. CPR Certification: American Heart Association Basic Life Support (BLS) for Healthcare Providers
3. Proof of immunizations
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.

PRACTICAL NURSING TECHNICAL CERTIFICATE MAJOR CODE: 2013

The PN program is offered through the Western Arkansas Technical Center.

Parental consent is required to participate in the practical nursing program. Students are not eligible to take the NCLEX-PN licensing examination until they are 18 years of age.

FALL FIRST SEMESTER - 7 HOURS

HOURS				NOTES
4	BIOL	1433 1431	Basic Anatomy and Physiology Basic Anatomy and Physiology Lab	1
3	HLTH	1473	Medical Terminology	1

SPRING SECOND SEMESTER - 14 HOURS

HOURS			
7	LPN	1187	Fundamentals I (first 8 weeks)
7	LPN	1197	Fundamentals II (second 8 weeks)

FALL THIRD SEMESTER - 14 HOURS

HOURS			
7	LPN	1217	Medical/Surgical I (first 8 weeks)
7	LPN	1227	Medical/Surgical II (second 8 weeks)

SPRING FOURTH SEMESTER - 7 HOURS

HOURS			
7	LPN	1237	Medical/Surgical III with Specialities

42 Total Hours

Notes

1. Courses required for admission to the practical nursing program. Students must meet admission requirements and be officially admitted into the PN Program. The PSB exam must

be completed prior to admittance. Please contact the WATC office for additional information regarding this program.

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

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 70% or more on a challenge exam for FIN 1521.

Radiography

ASSOCIATE OF APPLIED SCIENCE DEGREE

The radiography program prepares graduates to sit for the national certification examination in radiography. This program combines didactic and clinical instruction. Students are trained in the art and science of using radiation to provide images of tissues, bones, and blood vessels of the human body.

Admission to the program is highly selective. Students should consult Student Advisement concerning admission, progression, and graduation requirements. It is recommended that all general education courses be completed prior to entering the radiography program. A grade of C or better is required in ALL courses applicable to this program. Enrollment in courses beginning with the RADT prefix requires admission to the radiography program.

ADMISSION REQUIREMENTS

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

1. Complete university admission requirements to include submission of official transcripts from all colleges/universities attended.
2. Have a minimum 2.50 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 radiography program with a minimum of C or higher in each course prior to fall entry
4. Take the Psychological Services Bureau (PSB) Health Occupations Aptitude Examination. Go the UAFS Testing Center website for more information.

APPLICATION

Students who meet the above criteria are eligible to apply for admission. Applications can be found online and must be submitted by the date as determined by the program.

SELECTION

Selection is based on the following weighted system:

Phase One

- Quality points earned for prerequisites and any additional courses on the AAS radiography degree plan (college credit earned through CLEP or AP for a course will not be used for ranking purposes) - 40%
- Score earned on the PSB Exam - 30%. Scores are valid for up to two years.
- Cumulative GPA - 30%

Note: In the event applicants have identical ranking scores, priority will be given to the student with the highest cumulative GPA. The top 30 applicants after Phase One of the selection process will proceed to Phase Two.

Phase Two

- Interview.

Students admitted into the radiography 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 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.

RADIOGRAPHY
ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR CODE: 2040

PREREQUISITES - 13 HOURS

HOURS				NOTES
4	BIOL	2203 2201	Human Anatomy Human Anatomy Lab	2 & 4
3	CHEM	1303	Chemical Principles	2 & 4
3	MATH	1403	College Algebra or higher	
3	English Composition requirement			1

FIRST SEMESTER (FALL I) - 16 HOURS

HOURS				NOTES
4	BIOL	2213 2211	Human Physiology Human Physiology Lab	2 & 4
4	RADT	1104	Introduction to Radiography	2
2	RADT	1112	Radiographic Procedures I	2
4	RADT	1124	Clinical Education I	2
2	RADT	1232	Radiation Physics	2

SECOND SEMESTER (SPRING I) - 15 HOURS

HOURS				NOTES
3	HLTH	1473	Medical Terminology	2
4	RADT	1204	Image Production	2
4	RADT	1214	Radiographic Procedures II	2
4	RADT	1224	Clinical Education II	2

THIRD SEMESTER (SUMMER - 10 WEEKS) - 6 HOURS

HOURS				NOTES
2	RADT	1312	Radiographic Procedures III	2
4	RADT	1324	Clinical Education III	2

FOURTH SEMESTER (FALL II) - 15 HOURS

HOURS				NOTES
2	RADT	2412	Radiographic Procedures IV	2
5	RADT	2425	Clinical Education IV	2
2	RADT	2432	Principles of Radiation Biology/ Protection	2
3	PSYC SOCI	1163 2753	General Psychology or Introduction to Sociology	
3	English Composition requirement			1

FIFTH SEMESTER (SPRING II) - 12 HOURS

HOURS				NOTES
2	RADT	2502	Imaging Equipment	2
5	RADT	2525	Clinical Education V	2
1	RADT	2601	Radiographic Pathology	2
1	RADT	2611	Senior Seminar	2
3	ITA requirement			3

77 Total Hours

Notes

1. General Education Core requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.
3. ITA requirement, three hours. Select ITA 1003, or ITA 1051 and two from ITA 1101, 1201, or 1251.
4. Science courses taken more than five years prior to program application may not be eligible. 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.

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.

Surgical Technology

ASSOCIATE OF APPLIED SCIENCE DEGREE

The curriculum prepares students to function in the operating room by combining classroom instruction and campus laboratory instruction with actual surgical suite experience. Successful completion of the program prepares the graduate to take the National Certification Examination to become a certified surgical technologist (CST).

ADMISSION REQUIREMENTS

To be considered for admission to 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 2.00 GPA for all college course work (including transfer work and excluding developmental courses) and be in good academic standing.
3. Complete required prerequisite courses for the program with a minimum grade of C or higher in each course prior to fall entry; prerequisite courses are the first two semesters as listed on the degree plan for a total of 28 hours
4. Take the Psychological Services Bureau (PSB) Health Occupations Aptitude Examination. Go the UAFS Testing Center website for more information.

APPLICATION

Students who meet the above criteria are eligible to apply for admission. Applications can be found online and must be submitted by the date as determined by the program.

SELECTION

Selection is based on the following weighted system:

Phase One

- Quality points earned for courses on surgical technology degree plan (college credit earned through CLEP or AP for a course will not be used for ranking purposes.) - 40%.
- Score earned on the PSB Exam - 30%. Scores are valid for up to two years.
- Cumulative GPA - 30%.

Note: In the event that applicants have identical ranking scores, priority will be given to the student with the highest cumulative GPA. The top 25 applicants after Phase One of the selection process will proceed to Phase Two.

Phase Two

- Interview.

Students admitted into the Surgical Technology 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 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.

SURGICAL TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR CODE: 2046

FIRST SEMESTER - 14 HOURS

HOURS				NOTES
4	BIOL	1153 1151	Biological Sciences Biological Sciences Lab	3 & 4

HOURS				NOTES
1	ITA	1051	Computer - Word Processing	3
3	MATH	1403	College Algebra or higher	3
3	PSYC	1163	General Psychology	3
3	English Composition requirement			1 & 3

SECOND SEMESTER - 14 HOURS

HOURS				NOTES
4	BIOL	2503 2501	General Microbiology General Microbiology Lab	2, 3 & 4
4	BIOL	2203 2201	Human Anatomy Human Anatomy Lab	2, 3 & 4
3	HLTH	1473	Medical Terminology	2 & 3
3	English Composition requirement			1 & 3

THIRD SEMESTER - 16 HOURS

HOURS				NOTES
6	SUR	1526	Surgical Technology Procedures I	2
10	SUR	153A	Surgical Technology Practicum I	2

FOURTH SEMESTER - 16 HOURS

HOURS				NOTES
6	SUR	1546	Surgical Technology Procedures II	2
10	SUR	155A	Surgical Technology Practicum II	2

60 Total Hours

Notes

1. General Education Core requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.
3. Course must be successfully completed before admission to the surgical technology program and enrollment in SUR courses.
4. Science courses taken more than five years prior to program application may not be eligible. See advisor for more information and to request a science course evaluation.

A grade of C or above is required for ALL courses applicable to the surgical technology program.

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.

School of Education

ADMISSION REQUIREMENTS FOR BACCALAUREATE DEGREES

The goal of the School of Education is to recruit capable students who have the potential to become outstanding professional educators. Students who seek to earn a degree within the School of Education or a secondary education degree within other colleges on campus must apply for and be admitted into the Educator Preparation Program (EPP). To be admitted, students must meet these eligibility criteria:

1. Completion of an application packet for admission into the EPP. Secondary education majors must include a completed degree plan signed by the candidate's faculty advisor with the application packet.
2. Evidence of satisfactory Arkansas State Police and FBI background check and the Arkansas child maltreatment background check as required by the Department of Elementary and Secondary Education. Students should contact their faculty advisor for current information on obtaining the appropriate checks.
3. Completion of a satisfactory interview evaluation.
4. Successful completion of the following courses prior to admission into the program: ENGL 1203, ENGL 1213, SPCH 1203, EDUC 2752 or EDUC 2753, and required mathematics course on student's degree plan.
5. Students must earn a C or higher in all courses on the degree plan.
6. A cumulative 2.75 GPA or better. This is tracked throughout the program and verified for admission into internship.
7. Evidence of a satisfactory disciplinary record with UAFS, and demonstrate a professional attitude and interest related to the School of Education's stated dispositions.

Note: Requirements for admission may change over time. Students must meet current admission requirements at the time they are admitted to the EPP.

GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREES

School of Education students who meet prescribed degree requirements will be awarded the bachelor of science degree by satisfying the University requirements and the School of Education specific requirements:

1. Satisfactory completion of all coursework for the baccalaureate degree.
2. A minimum 2.75 cumulative grade point average for admission into internship and a grade of C or higher in EDUC 4802 Seminar in Education and EDUC 490A Internship.
3. Successful completion of all required Praxis II, Praxis PLT, and Foundations of Reading Exam, if applicable, prior to internship.
4. 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.

Early Childhood Education

The early childhood education program is designed primarily for preschool workers and P-4 teaching assistants or para-professionals who are not seeking admission into a teacher licensure program. The coursework is specifically designed to address the birth-five population, and lead to an associate of applied science, technical certificate, and/or certificate of proficiency. A unique feature of the AAS is the completion of the educational component of the national CDA credentialing within the first two semesters. Students who are successful in degree

completion will meet the educational component of the Arkansas Birth through Prekindergarten Teaching Credential, awarded by the Division of Child Care and Early Childhood Education.

ASSOCIATE OF APPLIED SCIENCE

EARLY CHILDHOOD EDUCATION
MAJOR CODE: 3553

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	ECD	1003	Foundations of Early Childhood Education	2
3	ECD	1103	Child Growth and Development	2
1	ECED	1401	Early Childhood Field Experience I	2
3	ITA	1003	Computer Applications for the Knowledge Worker	
3	English Composition requirement			1
3	Mathematics requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	ECTC	2803	Infant Toddler Curriculum	2
3	ECTC	2903	Future Perspectives in Early Childhood	2
3	HLTH	2953	First Aid	2
4	SPAN	1304	Beginning Spanish I	2
3	English Composition requirement			1

SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
1	ECED	1411	Early Childhood Field Experience II	2
3	ECTC	2403	Math and Science for Early Childhood	2
3	ECTC	2503	Child Guidance	2
3	ECTC	2703	Preschool Curriculum (B - Pre-K)	2
3	SPCH	1203	Introduction to Speech Communication	2
3	Social Sciences requirement			1

SOPHOMORE YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	ECED	2093	Health, Safety, and Nutrition for Young Learners	2
3	ECTC	2303	Literacy and Language Arts for Early Childhood	2
3	ECTC	2603	Practicum	2
3	Fine Arts requirement			1 & 2

60 Total Hours

Notes

1. General Education core requirements. See graduation requirements section of this catalog. Follow requirements with the following stipulation: social sciences-select either PSYC 1163 or SOCI 2753.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a 2.50 cumulative GPA in these courses. Any course with grade of D must be retaken.

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.

EARLY CHILDHOOD EDUCATION TECHNICAL CERTIFICATE
MAJOR CODE: 3557

All courses must be completed with a grade of C or better and cumulative 2.5 GPA.

HOURS			
3	ECD	1003	Foundations of Early Childhood Education
3	ECD	1103	Child Growth and Development
1	ECED	1401	Early Childhood Field Experience I
1	ECED	1411	Early Childhood Field Experience II
3	ECTC	2403	Math and Science for Early Childhood
3	ECTC	2503	Child Guidance
3	ECTC	2703	Preschool Curriculum (B - Pre-K)
3	ECTC	2803	Infant Toddler Curriculum
3	ECTC	2903	Future Perspectives in Early Childhood
3	HLTH	2953	First Aid

26 Total Hours

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.

EARLY CHILDHOOD EDUCATION CERTIFICATE OF PROFICIENCY
MAJOR CODE: 3556

HOURS			
3	ECD	1003	Foundations of Early Childhood Education
3	ECD	1103	Child Growth and Development
1	ECED	1401	Early Childhood Field Experience I
3	ECTC	2903	Future Perspectives in Early Childhood
3	HLTH	2953	First Aid

13 Total Hours

Elementary Education K - 6

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3554

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	MATH	1403	College Algebra	3
3	HUMN 2563 Humanities through the Arts or GEOG World Regional Geography or HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World Since 1500			

HOURS				NOTES
4	BIOL 1153/1151 Biological Science/Laboratory or PHSC 2713/ 2711 Physical Science/Laboratory or GEOL 2653/2651 Earth Science/Laboratory			
3	HIST 2753 US History I or HIST 2763 US History II			
3	English Composition requirement			1 & 3

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	EDUC	2783	Introduction to Educational Foundations	2 & 3
3	SPCH	1203	Introduction to Speech Communication	3
3	HUMN 2563 Humanities through the Arts or GEOG World Regional Geography or HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World Since 1500			
4	BIOL 1153/1151 Biological Science/Laboratory or PHSC 2713/ 2711 Physical Science/Laboratory or GEOL 2653/2651 Earth Science/Laboratory			
3	English Composition requirement			1 & 3

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	MATH	1333	Number Sense I	2
3	MATH	1343	Number Sense II	2
3	POLS	2753	American National Government	
3	ECON 2803 Principles of Macroeconomics or ECON 2813 Principles of Microeconomics			
3	ENGL 2013 Global Literature or ENGL 2023 American Literature			

SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	ELML	2013	Educational Technology and Digital Literacy	2
3	MATH	2233	Geometry and Measurement I	2 & 3
3	MATH	2243	Geometry and Measurement II	2 & 3
3	HUMN 2563 Humanities through the Arts or GEOG World Regional Geography or HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World Since 1500			
4	BIOL 1153/1151 Biological Science/Laboratory or PHSC 2713/ 2711 Physical Science/Laboratory or GEOL 2653/2651 Earth Science/Laboratory			
	Admission to the Educator Preparation Program (EPP) is required prior to start of the junior year. Recommend taking Praxis II Math.			

JUNIOR YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
1	EDUC	4401	Integrating Health and Physical Education	2 & 4
3	ELML	3013	Educational Psychology	2 & 4
2	ELML	3102	Foundations of Clinical Practice	2 & 4
3	ELML	3203	Introduction to Assessment	2 & 4
2	ELML	3302	Learning Environments	2 & 4
3	READ	3303	Foundations of Teaching Reading and Writing	2 & 4
	Recommend taking PLT			

JUNIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS				NOTES
2	ELML	3202	Practicum I	2 & 4
3	HIST	4153	History of Arkansas	
3	READ	3503	Methods and Materials for Teaching Literacy	2 & 4
3	READ	3803	Literacy Assessment and Intervention	2 & 4
3	SPED	3003	Teaching Diverse Learners	2 & 4

SENIOR YEAR FALL SEMESTER - 17 HOURS

HOURS				NOTES
3	EDUC	4203	Social Studies Curriculum, Instruction, and Assessment	2 & 4
2	ELML	4102	Practicum II	2 & 4
3	ELML	4303	STEAM Curriculum, Instruction, and Assessment	2 & 4
3	MATH	3843	Mathematics Curriculum, Instruction, and Assessment	2 & 4
3	READ	3903	Disciplinary Literacy	2 & 4
3	SPED	4403	Assessment and Differentiation for Diverse Learners	2 & 4

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
2	EDUC	4802	Seminar in Education	2 & 4
10	EDUC	490A	Internship	2 & 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.
2. These courses are used to determine major courses in residency, Graduation Requirements this catalog.
3. Requirements for Admission in Educator Preparation Program (EPP). 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.

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 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.

Pre-K Level, Age 3-4 Endorsement

The Pre-K Level, Age 3-4 endorsement is an add-on to the elementary education K-6 license. It is open to students who are pursuing the bachelor of science in elementary education and currently licensed teacher who wish to add the endorsement to their existing license.

HOURS			
1	ECED	1411	Early Childhood Field Experience II
3	ECTC	2303	Literacy and Language Arts for Early Childhood
3	ECTC	2403	Math and Science for Early Childhood
3	ECTC	2503	Child Guidance
3	ECTC	2703	Preschool Curriculum (B - Pre-K)

13 Total Hours

Middle Childhood Education 4-8

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3515

CONCENTRATION CHOICES: ENGLISH-C041; MATHEMATICS-C042; SCIENCE-C043; SOCIAL STUDIES-C044

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	MATH	1403	College Algebra	3
3	POLS	2753	American National Government	
3	Fine Arts/Humanities/Social Sciences requirement			1
3	English Composition requirement			1 & 3
4	Laboratory Science requirement			1

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
2	EDUC	2752	Introduction to Education	2 & 3
1	FIN	1521	Personal Finance Applications	7
3	SPCH	1203	Introduction to Speech Communication	3
3	English Composition requirement			1 & 3
3	Fine Arts/Humanities/Social Sciences requirement			1
4	Laboratory Science requirement			1

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	MATH	2333	Structures of Arithmetic	2
3	MATH	2343	Informal Geometry	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Concentration requirement 1			2 & 5
3	Concentration requirement 2			2 & 5

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	ELML	2013	Educational Technology and Digital Literacy	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Concentration requirement 1			2 & 5
3	Concentration requirement 1			2 & 5
3	Concentration requirement 2			2 & 5

HOURS	NOTES
Admission to the Educator Preparation Program (EPP) is required prior to start of the junior year	

JUNIOR YEAR FALL SEMESTER - 17 HOURS

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

JUNIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
2	ELML	3202	Practicum I	2 & 4
2	ELML	3302	Learning Environments	2 & 4
3	READ	3803	Literacy Assessment and Intervention	2 & 4
3	READ	3903	Disciplinary Literacy	2 & 4
3	Concentration requirement 1			2 & 5
3	Concentration requirement 2			2 & 5

SENIOR YEAR FALL SEMESTER - 13 HOURS

HOURS				NOTES
2	ELML	4102	Practicum II	2 & 4
3	ELML	4303	STEM Curriculum, Instruction, and Assessment	2 & 4
3	HIST	4153	History of Arkansas	
3	SPED	3003	Teaching Diverse Learners	2 & 4
2	Elective			6

SENIOR YEAR SPRING SEMESTER - 12 HOURS

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

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: Laboratory science - BIOL 1153/1151 and PHSC 2713/2711 are required; social sciences - ECON 2813 and GEOG 2753 are required; fine Arts- HUMN 2563 is required; humanities select one from ENGL 2013 or ENGL 2023.
2. These courses are used to determine major courses in residency, Graduation Requirements this catalog.
3. Requirements for Admission in Educator Preparation Program (EPP). 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. Students must select two different concentrations (12 hours each) from the following: English - ENGL 3203, ENGL 3303, ENGL 3663, and either ENGL 2013 or ENGL 2023 (cannot be course used to meet humanities requirement); mathematics - MATH 1453, MATH 3803, MATH 3843, and STAT 2503; science - GEOL 2653/2651, BIOL 2203/2201 and CHEM 1303/1301; social studies - EDUC 4203, GEOG 2763, HIST 1123 or 1133, and HIST 2753 or 2763.
6. Select two-hour 3000 or 4000 level EDUC, SPED, or READ course in consultation with faculty advisor.
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.

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

Special Education Resource Teacher Endorsement K-6, 7-12

COURSE REQUIREMENTS

HOURS			
3	SPED	3413	Classroom and Group Management
3	SPED	4403	Assessment and Differentiation for Diverse Learners
3	SPED	4803	Special Education Academy 101
3	SPED	4813	Instructional Strategies for the Diverse Learner

12 Total Hours

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

Teaching English as a Second Language (TESL) Endorsement

The certificate of proficiency in TESL is awarded by the College of Languages and Communication upon completion of the prescribed curriculum. The candidate for the TESL endorsement, grades P -12, must be accepted into the UAFS 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
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 the coursework receive a continuing education certificate and have then met the educational component of the CDA national credentialing process.

Individuals interested in this program should contact the Early Childhood Preschool office at (479) 788-7249.

REQUIREMENTS

HOURS			
3	ECD	1003	Foundations of Early Childhood Education
3	ECD	1103	Child Growth and Development
1	ECED	1401	Early Childhood Field Experience I
3	ECTC	2703	Preschool Curriculum
3	ECTC	2803	Infant Toddler Curriculum

13 Total Hours

All courses must be completed with a grade of C or better, and a cumulative and program GPA of 2.50.

HUMAN SCIENCES

Psychology

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2552

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
1	PSYC	1001	Psychology Orientation	2
3	PSYC	1163	General Psychology	2
3	SPCH	1203	Introduction to Speech Communication	

HOURS				NOTES
3	English Composition requirement			1
3	Mathematics requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	PSYC	2803	History and Systems of Psychology	2
3	English Composition requirement			1
4	Lab Science requirement			1
4	World Language requirement			5
1	Additional degree requirement			4

SOPHOMORE YEAR FALL SEMESTER - 17 HOURS

HOURS				NOTES
3	PSYC	2513	Introduction to Behavioral Statistics	2
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 Personality	2
3	PSYC	4303	Sensation and Perception	2
3	Additional degree requirement			4
3	Additional degree requirement			4

SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	PSYC	4953	Psychology Capstone	2
3	Psychology requirement			2 & 3
3	Additional degree requirement			4
3	Additional degree requirement			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 following stipulations: humanities-select one course other than PHIL 2753; lab science-select BIOL 1153/1151 is required select either CHEM 1303/1301 or PHSC 2713/2711; social sciences-select two courses other than PSYC 1163.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Must earn a grade of C or better in all PSYC courses applied toward the major.
3. Psychology requirement, three hours. Consult with faculty advisor. Select from PSYC 3123, 3173, 3414, 3653, 3703, 3763, 4233, 4243, 4613, 4803, 4923, 493V.
4. Additional degree requirements, 22 hours; at least seven must be upper-level. Consult with faculty advisor. A minor is required; follow the respective minor requirements. Remaining hours may be additional PSYC courses or other electives.
5. World language requirement, 11 hours. Must complete through Intermediate I of a world language.

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.

PSYCHOLOGY MINOR
MINOR CODE: A006

The minor in psychology requires 18 hours of coursework.

REQUIRED NINE HOURS:

PSYC	1163	General Psychology
PSYC	2513	Introduction to Behavioral Statistics
PSYC	2613	Research Methods in Psychology

SELECT NINE HOURS:

Any upper-level (3000 or 4000) PSYC courses

Social Work

The UAFS Social Work Program is fully accredited by the Council on Social Work Education (CSWE). A program that has earned accreditation has demonstrated full compliance to the standards set by the Educational Policy and Accreditation Standards. Students earning a CSWE Accredited BSW degree are eligible to apply to universities offering advanced standing graduate programs to earn a master of social work (MSW)

degree in one year. For more information about social work accreditation contact the Council on Social Work Education

ADMISSION TO THE BACHELOR OF SOCIAL WORK

Admission to the bachelor of social work (BSW) is required prior to start of junior year. A student may declare a major of BSW at any time. However, to be officially admitted to the BSW program, the student must meet the following eligibility criteria for admission consideration:

- Completed a minimum of 35 general education hours towards degree compliance.
- Completed SOWK 2103 Introduction to Social Work and SOWK 3043 Human Behavior in the Social Environment.
- Have completed ENGL composition requirement, SPCH 1203 Introduction to Speech Communication, SOCI 2753 Introduction to Sociology, and PSYC 1163 General Psychology with a grade of C or better.
- Have a minimum 2.00 cumulative GPA for all college course work (including transfer work and excluding developmental courses) used towards degree compliance and be in good academic standing.

Admission is selective. Students must be admitted to the social work program before taking advanced BSW courses.

BACHELOR OF SOCIAL WORK (BSW) DEGREE MAJOR CODE: 2570

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	SOCI PSYC	2753 1163	Introduction to Sociology or General Psychology	5
3	SPCH	1203	Introduction to Speech Communication	5
3	English Composition requirement			1 & 5
4	Lab Science requirement			1 & 5
3	Mathematics requirement			1 & 5

FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	POLS	2753	American National Government	5
3	SOCI PSYC	2753 1163	Introduction to Sociology or General Psychology	5
3	English Composition requirement			1 & 5
3	Fine Arts requirement			1 & 5
4	Lab Science requirement			1 & 5

SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	6
3	PHIL	2753	Introduction to Philosophy	5
3	SOWK	2103	Introduction to Social Work	2 & 5
4	SPAN	1304	Beginning Spanish I	
3	Statistics requirement			4
1	Elective requirement			3

SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	SOWK	3043	Human Behavior in the Social Environment	2 & 5
4	SPAN	1314	Beginning Spanish II	
3	Elective requirement			3
3	Elective requirement			3
2	Elective requirement			3

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	4613	Research Methods in Social Work	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	Geriatric Social Work	2
3	SOWK	3853	Social Work Values and Ethics	2

SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	SOWK	3823	Social Policy Analysis and Advocacy	2
3	SOWK	4623	Social Work and Substance Abuse	2
3	SOWK	4903	Field Instruction I (Seminar)	2
4	SOWK	4914	Social Work Practicum I	2
2	Elective requirement			3

SENIOR YEAR SPRING SEMESTER - 13 HOURS

HOURS				NOTES
3	SOWK	3843	Child Welfare Services	2
3	SOWK	4913	Field Instruction II (Seminar)	2
4	SOWK	4924	Social Work Practicum II	2
3	Elective requirement			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. Follow requirements with the following stipulations: lab science - BIOL 1153/1151 is required and select one additional lecture/lab.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog. Must earn a C or better in all SOWK courses applied toward the degree.
3. Elective requirement, 17 hours. Consult with advisor.
4. Statistics requirement. Select one course from STAT 2503 or PSYC 2513.

5. Required for admission to the BSW program. To be eligible for admission, student must have following:
    a. Completed a minimum of 35 general education hours towards degree compliance.
    b. Completed SOWK 2103 and SOWK 3043.
    c. Completed the English Composition requirement, SPCH 1203, SOCI 2753, and PSYC 1163 with a grade of C or better.
    d. Minimum 2.00 cumulative GPA for all college course work (including transfer work and excluding developmental courses) used towards degree compliance and be in good academic standing
6. 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.

SOCIAL WORK MINOR
MINOR CODE: AO32

The minor in social work requires 18 hours of coursework. Each course taken in the minor must be completed with a grade of C or better.

REQUIRED SIX HOURS:

SOWK	2103	Introduction to Social Work
SOWK	3043	Human Behavior in the Social Environment

SELECT 12 HOURS:

SOWK	3413	Diversity and Social Economic Justice
SOWK	3433	Populations at Risk
SOWK	3523	Social Work in Mental Health
SOWK	3843	Child Welfare Services
SOWK	3823	Social Policy Analysis and Advocacy
SOWK	3833	Geriatric Social Work
SOWK	4623	Social Work and Substance Abuse

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Course Symbols and ACTS

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 offering more than nine hours of credit, a letter will replace the final digit: A = 10, B = 11, C = 12, etc.

The number of semester hours of credit for the course are indicated by a number followed by "CR". 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

IND STU - Independent Study

INT/PRAC - Internship/Practicum

LAB - Laboratory

LEC - Lecture

PART - Participation

STU - Studio

To the right of the credit hour designations, one or more of the terms below indicate the typical course rotation. This rotation is not guaranteed; course offerings can change due to low enrollment, instructor availability, or other extenuating circumstances.

FALL - Each fall semester

ODD FALL - Fall semester of odd numbered years

EVEN FALL - Fall semester of even numbered years

SPRING - Each spring semester

ODD SPRING - Spring semester of odd numbered years

EVEN SPRING - Spring semester of even numbered years

SUMMER - Each summer semester

IRREGULAR - No set schedule of instruction

THE ARKANSAS COURSE TRANSFER 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 at the Arkansas Department of Higher Education ACTS webpage.

ACCT Accounting

ACCT 2803 **3 CR (3 LEC) FALL, SPRING**
PRINCIPLES OF FINANCIAL ACCOUNTING

Prerequisite: MATH 1303 College Mathematics and Quantitative Literacy 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) FALL, SPRING**
PRINCIPLES OF MANAGERIAL ACCOUNTING

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

Introduction to the fundamentals of managerial accounting theory and practice. Emphasizes cost accounting and managerial analysis. (ACTS: ACCT 2013)

ACCT 3003 **3 CR (3 LEC) FALL, SPRING**
INTERMEDIATE ACCOUNTING I

Prerequisites: ACCT 2813 Principles of Managerial Accounting and MATH 2403 Survey of Calculus or higher MATH and admission to the business program, or consent of instructor

An in-depth study of financial statements, the accounting process, inventory valuation procedures, operational assets, and investments.

ACCT 3013 **3 CR (3 LEC) FALL, SPRING**
INTERMEDIATE ACCOUNTING II

Prerequisite: ACCT 3003 Intermediate Accounting I and admission to the business program, or consent of instructor

A detailed study of the corporate form of organization. In addition, effort is devoted to error corrections, analysis of financial statements, funds flow and cash flow reporting, and the controversial areas of accounting.

ACCT 3023 **3 CR (3 LEC) FALL**
COST ACCOUNTING

Prerequisites: ACCT 2813 Principles of Managerial Accounting, MGMT 2963 Business Statistics or STAT 2503 Probability and Statistics I, and admission to the business program, or consent of instructor

General principles of cost accounting, including the methods of collection, preparation, and interpretation of cost data for industrial and commercial concerns, comprehensive budgets, and standard costs.

ACCT 3043 **3 CR (3 LEC) IRREGULAR**
ADVANCED COST ACCOUNTING

Prerequisite: ACCT 3023 Cost Accounting and admission to the business program, or consent of instructor

Discussion of advanced topics in ACCT 3023 Cost Accounting. Includes decision models and cost information, cost allocation, and management controls.

ACCT 3053 **3 CR (3 LEC) SPRING**
ACCOUNTING INFORMATION SYSTEMS

Prerequisites: demonstrated competency in business computing as defined by the business program, ACCT 2813 Principles of Managerial Accounting, and MATH 2403 Survey of Calculus or higher MATH course and admission to the business program, or consent of instructor

Study of the role, design, characteristics, and function of accounting information systems.

ACCT 3123 3 CR (3 LEC) FALL
GOVERNMENTAL AND NOT-FOR-PROFIT ACCOUNTING

Prerequisites: junior-level standing and ACCT 3003 Intermediate Accounting I and admission to the business program, or consent of instructor

Accounting principles and reporting standards as applied to governmental units and not-for-profit enterprises. Special emphasis is placed on pronouncements of the Governmental Accounting Standards Board.

ACCT 3813 3 CR (3 LEC) IRREGULAR
COST MANAGEMENT

Prerequisites: ACCT 2813 Principles of Managerial Accounting, MATH 2403 Survey of Calculus or higher math, STAT 2503 Probability and Statistics I, and admission to the business program

Builds on the students' core knowledge of managerial accounting and business to provide advanced learning in cost management for their future in business.

ACCT 4013 3 CR (3 LEC) FALL
TAX ACCOUNTING I

Prerequisite: ACCT 2813 Principles of Managerial Accounting and admission to the business program, or consent of instructor

Examines the laws, rules, and procedures of federal income taxes for individuals.

ACCT 4023 3 CR (3 LEC) SPRING
ADVANCED ACCOUNTING

Prerequisite: ACCT 3013 Intermediate Accounting II, and admission to the business program, or consent of instructor

Advanced study of financial accounting concepts and problems in the areas of business combinations, foreign currency transactions and hedging, interim and segment reporting, and international accounting.

ACCT 4053 3 CR (3 LEC) FALL
AUDITING

Prerequisites: ACCT 3013 Intermediate Accounting II, MGMT 2963 Business Statistics and admission to the business program, or consent of instructor

Prerequisite or corequisite: ACCT 3053 Accounting Information Systems

Study of the standards and procedures of auditing, code of ethics, reporting, and the principles underlying the verification of data presented in financial reports.

ACCT 4113 3 CR (3 LEC) SPRING
TAX ACCOUNTING II

Prerequisite: ACCT 4013 Tax Accounting I and admission to the business program, or consent of instructor

Continuation of Tax Accounting I. Emphasis on federal income tax laws for partnerships, fiduciaries, and corporations.

ACCT 4153 3 CR (3 LEC) SPRING
FORENSIC ACCOUNTING

Prerequisites: ACCT 4053 Auditing and admission to the business program, or consent of instructor

Emphasizes key issues relevant to forensic accounting and fraud examination, including audit committee and liability-related issues. Students will be exposed to applicable authoritative literature, as well as to tools and methods used by modern forensic accountants and auditors to identify, report, and ultimately, prevent financial statement frauds.

ACCT 447V 1-3 CR (IND STU) IRREGULAR
INDEPENDENT STUDY IN ACCOUNTING

Prerequisites: admission to the business program and consent of instructor and department head

Prerequisite or corequisite: may vary depending on topic

Individual problems or topics in accounting arranged in consultation with instructor. May be repeated for a total of six hours.

ACCT 453V 1-3 CR (VARIABLE) IRREGULAR
ACCOUNTING MAYMESTER EXPERIENCE

Prerequisite: ACCT 3003 Intermediate Accounting I

Provides students the opportunity to examine emerging issues/ special topics in accounting. Includes on-campus instruction and several site visits to organizations relevant to the course topic.

ACCT 457V 1-3 CR (VARIABLE) IRREGULAR
SPECIAL TOPICS IN ACCOUNTING

Prerequisite: admission to the business program or consent of instructor

Prerequisite or corequisite: may vary depending on topic

Topics and current issues of critical importance to the field of accounting. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a maximum of 9 total hours.

ACCT 467V 1-4 CR (INT/PRAC) FALL, SPRING, SUMMER
INTERNSHIP IN ACCOUNTING

Prerequisites: admission to the business program, overall GPA of 2.5, consent of instructor and any additional criteria as specified for the position

Prerequisite or corequisites: ACCT 3003 Intermediate Accounting I and MGMT 3153 Organizational Behavior

Designed to offer practical accounting experience working with an area business along with classroom instruction. The classroom instructor and a business representative will jointly supervise the external intern experience. Amount of credit is dependent upon the hours worked during the semester. May only count a maximum of six hours of ACCT 467V and/or COBI 467V combined.

AERO Air Force ROTC

The U. S. Air Force offers the Air Force ROTC program on the University of Arkansas, Fayetteville campus for interested UAFS students. Students enroll for the AERO courses through the ROAR at UAFS and take the courses on the Fayetteville campus.

AERO 1011 1 CR (1 LEC, 2 LAB) IRREGULAR
HERITAGE AND VALUES OF THE UNITED STATES AIR FORCE I

A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.

AERO 1021 1 CR (1 LEC, 2 LAB) IRREGULAR
HERITAGE AND VALUES OF THE UNITED STATES AIR FORCE II

The continuation of AERO 1011. A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.

AERO 2011 **1 CR (1 LEC, 2 LAB) IRREGULAR**
TEAM AND LEADERSHIP FUNDAMENTALS I

This course focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The course will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. .

AERO 2021 **1 CR (1 LEC, 2 LAB) IRREGULAR**
TEAM AND LEADERSHIP FUNDAMENTALS II

The continuation of AERO 2011. This course focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The course will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate

AERO 3013 **3 CR (3 LEC, 3 LAB) IRREGULAR**
LEADING PEOPLE AND EFFECTIVE COMMUNICATION I

Prerequisite: successful completion of summer field training and AERO 1011, 1021, 2011, and 2021.

This course teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.

AERO 3023 **3 CR (3 LEC, 3 LAB) IRREGULAR**
LEADING PEOPLE AND EFFECTIVE COMMUNICATION II

Prerequisite: AERO 3013 Leading People and Effective Communication I

The continuation of AERO 3013. This course teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.

AERO 4013 **3 CR (3 LEC, 3 LAB) IRREGULAR**
NATIONAL SECURITY AFFAIRS/ PREPARATION FOR ACTIVE DUTY I

Prerequisites: AERO 3023 Leading People and Effective Communication II

This course is designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. The final semester provides information that will prepare the cadets for active duty.

AERO 4023 **3 CR (3 LEC, 3 LAB) IRREGULAR**
NATIONAL SECURITY AFFAIRS/PREPARATION FOR ACTIVE DUTY II

Prerequisites: AERO 4013 National Security Affairs/ Preparation for Active Duty I

The continuation of AERO 4013. This course is designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. The final semester provides information that will prepare the cadets for active duty.

AHIS Art History

AHIS 2863 **3 CR (3 LEC) FALL, SPRING**
ART HISTORY SURVEY I

Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition

Explores the creation of art from before the development of the written word to the European Middle Ages. Both Western and non-Western art are included. Students are recommended to take AHIS 2863 before AHIS 2873. (ACTS: ARTA 2003)

AHIS 2873 **3 CR (3 LEC) FALL, SPRING**
ART HISTORY SURVEY II

Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition

Surveys the history of the visual arts circa 1300 through the twentieth century. While the course emphasizes Western art, the arts of Africa are also discussed. Students are recommended to take AHIS 2863 before AHIS 2873. (ACTS: ARTA 2103)

AHIS 3103 **3 CR (3 LEC) IRREGULAR**
ANCIENT ART

Prerequisites: HUMN 2563 Humanities through the Arts or AHIS 2863 Art History Survey I, or consent of instructor

Explores the foundation of Western and Eastern art history. Examining ancient art from Mesopotamia, Egypt, Crete, Greece, Rome, China, and Japan. Both visual analysis (style) and contextual analysis will be emphasized.

AHIS 3203 **3 CR (3 LEC) IRREGULAR**
ART OUTSIDE THE WESTERN TRADITION

Prerequisite: HUMN 2563 Humanities through the Arts or AHIS 2863 Art History Survey I or consent of instructor

Surveys art created outside the Western tradition, including the art of the Americas, Asia, India, Africa, the Pacific Islands, and Middle East. Emphasizes the role played by historical, cultural, and religious factors in shaping the creation of art.

AHIS 3303 **3 CR (3 LEC) IRREGULAR**
EARLY MODERN ART 1300-1700

Prerequisite: HUMN 2563 Humanities through the Arts or AHIS 2873 Art History Survey II, or consent of instructor

Examines the art of the Renaissance and Baroque periods in Italy. Discussions will include architecture, painting, sculpture, and the sumptuous arts.

AHIS 3523 **3 CR (3 LEC) IRREGULAR**
HISTORY OF AMERICAN ART

Prerequisite: HUMN 2563 Humanities through the Arts or AHIS 2873 Art History Survey II or consent of instructor

Explores the broad expanse of artistic expression in what is now the United States, including the work of indigenous peoples, folk art, and the decorative arts. Emphasizes the cultural and critical interpretation of works of art from the Colonial period through the Armory Show of 1913.

AHIS 3663 **3 CR (3 LEC) IRREGULAR**
CASTLES AND CATHEDRALS OF THE MIDDLE AGES

Prerequisite: HUMN 2563 Humanities through the Arts or AHIS 2863 Art History Survey I, or consent of instructor

Explores the art of the European Middle Ages through the castle and the cathedral. Covers technology and architectural styles within the context of historical and cultural influences. Monumental pictorial arts (mural painting, stained-glass windows, tapestries) and sumptuous arts (works in precious metals, stones, enamels, and ivory) that enriched and activated these spaces are also a fundamental aspect of the course. Course is equivalent to HIST 3663, may only take one course for credit.

AHIS 3863 3 CR (3 LEC) SPRING
HISTORY OF GRAPHIC DESIGN

Prerequisite: sophomore standing or consent of instructor

Designed to help students develop an intelligent appreciation of design and art movements that have affected graphic design from the invention of writing to the present.

AHIS 3903 3 CR (3 LEC) IRREGULAR
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.

AHIS 4003 3 CR (3 LEC) IRREGULAR
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 city of Paris. Targeted readings and discussion of French art and culture, focused research on an individual work of art, and on-site discussion of the art of Paris—from the ancient Roman baths to contemporary public sculpture—are all integral aspects of the course.

AHIS 4213 3 CR (3 LEC) IRREGULAR
MODERN ART

Prerequisite: HUMN 2563 Humanities through the Arts or AHIS 2873 Art History Survey II, or consent of instructor

Explores the idea of "modern art", incorporating both works and arts on both sides of the Atlantic, from the second half of the nineteenth century up to World War II. Examines works of art within their cultural, political, and social contexts; understanding their distinctive formal qualities is also an important aspect of the course.

AHIS 4223 3 CR (3 LEC) IRREGULAR
ART SINCE 1945

Prerequisite: AHIS 2873 Art History Survey II

Critically investigates approaches to visual art following World War II. Art in the United States and Europe will constitute the primary focus in this seminar-style class. Students who have taken AHIS 4213 will be especially well prepared for the class.

ANTH Anthropology

ANTH 2203 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO ARCHAEOLOGY

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

Introduction to the theories and methods of archaeology; basic excavation techniques and the various approaches to understanding the relationship of material artifacts of a culture to their non-material origins. Hands on fieldwork will be part of the coursework.

ANTH 2303 3 CR (3 LEC) IRREGULAR
INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

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

Introduction to the scientific account of human evolution. Explores the range of biological diversity in primates via fossil evidence and genetics. The interrelationship between biological, cultural, and environmental changes is emphasized.

ANTH 2803 3 CR (3 LEC) FALL, SPRING
CULTURAL ANTHROPOLOGY

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

Introduces students to the wide variety of existing cultures. Provides conceptual framework for making comparisons between them; tools for understanding cultural variation in language, economics, political processes, kinship structures, gender, and religious beliefs. Explores the impact of cultural interaction and the distinction between ethnicity and social racial categories. (ACTS: ANTH 2013)

ANTH 3213 3 CR (3 LEC) IRREGULAR
WORLD PREHISTORY

Prerequisites: ANTH 2203 Introduction to Archaeology or ANTH 3303 Anthropological Theory, and either ENGL 1213 Composition II or RHET 2863 Advanced Composition

Focuses on the rise of civilization in conjunction with the advent of agricultural technologies, market economies, political states, alphabets, and urbanization. Examples are drawn from major developments around the world such as the Fertile Crescent, Egypt, Meso-America, and Asia. Environmental pressures on ancient civilizations will be analyzed.

ANTH 3303 3 CR (3 LEC) IRREGULAR
ANTHROPOLOGICAL THEORY

Prerequisite: ANTH 2803 Cultural Anthropology

Examines the range of theories anthropologists have used to describe and explain variability in sociocultural phenomena. Explores the organization of particular theories, as well as issues that separate divergent theories. Major theoretical orientations to be explored include evolutionism, Marxism, Freudianism, structuralism, structural-functionalism, ethnoscience, diffusionism, historical particularism, cultural ecology, sociobiology, and cultural materialism.

ANTH 3313 3 CR (3 LEC) IRREGULAR
FORENSIC ANTHROPOLOGY

Prerequisites: ANTH 2303 Introduction to Biological Anthropology, BIOL 1151/1153 Biological Science/Laboratory, and either ENGL 1213 Composition II or RHET 2863 Advanced Composition

Introduction to the theories and methods of identifying human remains using the various tools of anthropology: biological anthropology, human osteology, and archaeology. Medical and legal requirements for cause of death and identity will be emphasized.

ANTH 3813 3 CR (3 LEC) IRREGULAR
NORTH AMERICAN INDIANS

Prerequisites: ANTH 2803 Introduction to Cultural Anthropology, and either ENGL 1213 Composition II or RHET 2863 Advanced Composition

Explores the existence of human beings in North America from pre-history to contemporary times. Intercultural contact is

an underlying theme throughout the course from the prehistoric cultural diffusion of artifacts to the interaction between Indian Nations and the governments of the United States, Canada, and Mexico.

ANTH 4813 — 3 CR (3 LEC) IRREGULAR
GLOBAL CHALLENGES

Prerequisite: ANTH 3303 Anthropological 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 POLS 4813 and SOCI 4813, and may only be taken once for credit.

ANTH 490V — 3-6 CR (VARIABLE) FALL, SPRING
SPECIAL TOPICS

Prerequisites: junior standing and ANTH 2803 Cultural Anthropology, or consent of department head

Course topics will vary each semester and may include but are not limited to the following: anthropology of business, anthropology of education, anthropology of religion, anthropology of sex and gender, anthropology of race and ethnicity, sociolinguistics, foodways, anthropological theory, Egyptology, bioarchaeology, historical archaeology. May be repeated once when topics differ for up to six hours.

ANTH 493V — 1-3 CR (IND STU) IRREGULAR
ANTHROPOLOGY INDEPENDENT STUDY

Prerequisites: junior standing and ANTH 2803 Cultural Anthropology, or consent of department head

Anthropological research and assessment of a topic chosen by the student and approved by instructor. May be repeated once when topics differ for up to six hours.

ART

ART 1103 — 3 CR (2 LEC, 4 STU) FALL, SPRING
2D DESIGN

An introduction to 2D design, addressing the elements and principles of design and their planar qualities and applications.

ART 1113 — 3 CR (2 LEC, 4 STU) FALL, SPRING
DRAWING

Fundamental drawing elements and their application to pictorial motifs. Visual perception and drawing concepts of planar issues, proportion, pictorial space, modeled drawing, chiaroscuro, and comprehensive application are investigated.

ART 1123 — 3 CR (2 LEC, 4 STU) FALL, SPRING
DIGITAL IMAGING

Introduces basic software applications commonly used in art and design, including raster and vector graphic-based applications; page layout; photography and image manipulation; printing, finishing and network communications. Topics include fundamental design principles and other aesthetic issues involved in digital art/design; photography/image manipulation, problem solving, and deadlines.

ART 1133 — 3 CR (2 LEC, 4 STU) FALL, SPRING
INTRODUCTION TO TYPOGRAPHY

An introduction to design and aesthetic issues concerning type and its use. Type measurement, typography design, technical issues relating to type and production, and a survey of the history of type are covered. Projects involve type design issues, problem solving, and deadlines.

ART 1143 — 3 CR (2 LEC, 4 STU) FALL, SPRING
3D DESIGN

An introduction to 3D design, addressing materials, working in-the-round, form, space, surface, color and their relationship to three-dimensional design.

ART 1551 — 1 CR (1 LEC) FALL, SPRING
ADMISSIONS PORTFOLIO

Prerequisites or corequisites: ART 1103 2D Design, ART 1113 Drawing, ART 1123 Digital Imaging, ART 1133 Introduction to Typography, and ART 1143 3D Design

Prepares students to submit a comprehensive portfolio of projects from art foundations courses. Students must pass this course to be admitted into the graphic design and studio art programs.

ART 2203 — 3 CR (2 LEC, 4 STU) IRREGULAR
FIGURE DRAWING

Drawing the human figure using traditional materials and techniques. Emphasis on gesture, proportion, volume, structure, and comprehensive drawings of the figure in space.

ART 2213 — 3 CR (2 LEC, 4 STU) IRREGULAR
INTRODUCTION TO PRINTMAKING

Prerequisite: ART 1551 Admissions Portfolio or consent of department head

Introduces the techniques of relief, intaglio, lithography, and screen printing. Students create work in each medium, following the historical development of the major printmaking processes.

ART 2223 — 3 CR (2 LEC, 4 STU) IRREGULAR
INTRODUCTION TO PAINTING

Prerequisites: ART 1551 Admissions Portfolio or consent of department head

Introduces basic color theory, concepts of perception, materials and methods of basic painting that apply to modern and contemporary practice.

ART 2303 — 3 CR (2 LEC, 4 STU) IRREGULAR
INTRODUCTION TO LETTERPRESS

Introduces the planning, design and printing of limited edition publications, such as cards, broadsides, posters and books using handset movable type and hand-operated printing presses. Covers basic elements of design and typography as it relates to actual hands-on printing, and how this technology is incorporated into contemporary design communication. Integrates other printing processes into letterpress work.

ART 2403 — 3 CR (2 LEC, 4 STU) IRREGULAR
INTRODUCTION TO BOOK ARTS

Introduces the traditions and methods of the handmade book, as well as the expressive possibilities available with books as an art form.

ART 3303 — 3 CR (2 LEC, 4 STU) IRREGULAR
ARTISTIC ANATOMY

Prerequisite: ART 1551 Admissions Portfolio or consent of the department head

Incorporates an understanding of the skeleton and muscular system as it relates to the structure, composition and drawing of the figure. An overview of the figure in the history of Western art augments sustained life studies from the skeleton and live model.

ART 3313 3 CR (2 LEC, 4 STU) FALL
ADVANCED DRAWING

Prerequisite: ART 1551 Admissions Portfolio or consent of the department head

Advanced study of drawing using a variety of material and mediums to resolve perceptual and conceptual projects. Drawings focus on a personal interpretation of assignments that achieve meaningful form and content relative to the objectives of each assignment. Includes representational and abstract imagery.

ART 3323 3 CR (2 LEC, 4 STU) IRREGULAR
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.

ART 3623 3 CR (2 LEC, 4 STU) IRREGULAR
FINE PRINTING AND BOOKMAKING

Prerequisite: junior standing or consent of instructor

Employs letterpress, bookmaking, and other production methods, and explores contemporary interpretations of the book as a vehicle for sequential/narrative design. Emphasizes mature dimensional idea generation, sequential consistency, and media choices.

ART 3633 3 CR (2 LEC, 4 STU) IRREGULAR
ADVANCED FINE PRINTING AND BOOKMAKING

Prerequisite: ART 3623 Fine Printing and Bookmaking or consent of instructor

Expands the exploration of various advanced concepts and practices in the art and design of printed matter using letter press (relief), especially in relation to the production of books. Students will conceive, design and construct their own books using a variety of printing techniques to enhance their professional portfolios.

ART 3723 3 CR (INT/PRAC) IRREGULAR
STUDIO ART INTERNSHIP

Prerequisites: junior standing and ART 1551 Admissions Portfolio, or consent of instructor

Students are placed in a working environment to gain on-the-job experience. Workplace locales can include art centers, galleries, museums, or businesses engaged in production of specialized media such as ceramics, neon, etc. The length of the internship is 120 clock hours.

ART 3753 3 CR (2 LEC, 4 STU) IRREGULAR
SCREEN PRINTING

Prerequisites: ART 2213 Introduction to Printmaking or consent of department head

Presents a wide range of stencil techniques, printing processes, and inks in screenprinting, applying both hand and photographic techniques.

ART 3763 3 CR (2 LEC, 4 STU) IRREGULAR
RELIEF PRINTING

Prerequisites: ART 2213 Introduction to Printmaking or consent of department head

Presents a broad range of relief printing techniques, including single block images as well as multi-block and reduction color printing.

ART 3773 3 CR (2 LEC, 4 STU) IRREGULAR
FIGURE PAINTING

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

Painting from a live model using traditional and experimental approaches. Proceeds from color sketches to resolved paintings.

ART 3783 3 CR (2 LEC, 4 STU) IRREGULAR
INTAGLIO

Prerequisite: ART 2213 Introduction to Printmaking or consent of department head

Presents a variety of techniques including soft ground, mezzotint, multi-plate color printing, and monotype processes.

ART 3793 3 CR (2 LEC, 4 STU) IRREGULAR
LITHOGRAPHY

Prerequisite: ART 2213 Introduction to Printmaking or consent of department head

Encompasses a variety of media and techniques including crayon, tusche, autographic ink, transfer processes, and color lithography.

ART 3903 3 CR (2 LEC, 4 STU) IRREGULAR
SPECIAL TOPICS IN STUDIO ART

Prerequisites: junior standing and ART 1551 Admissions Portfolio, or consent of instructor

Provides for study and extensive studio practice in a topic or medium that is not included in other course offerings. Topics might include advanced life drawing, storyboarding, digital painting, etc.

ART 3953 3 CR (3 LEC) IRREGULAR
ART COLLECTING AND THE BUSINESS OF ART

Prerequisite: junior standing or consent of instructor

Explores the history of art collecting and display as well as historic and current approaches to the business of art. Discusses different types of art organizations (both profit and non-profit), how they are run and governed, and what makes an effective leader in the art world. Basic business planning is also included.

ART 391V 1-3 CR (IND STU) IRREGULAR
SPECIAL PROJECTS

Prerequisites: six hours of upper level studio art courses and consent of the instructor

Focuses on creating a number of works that address form, content and subject matter in the style and medium of their choice. Produces a highly developed body of work with a coherent visual theme that promotes an individual approach to creating art.

ART 4954 4 CR (1 LEC, 4 STU) FALL, SPRING
STUDIO ART CAPSTONE

Prerequisites: senior standing and 12 or more hours of upper-level studio art courses

An independent study course that concludes the BA in studio art. Requires a proposal, an artist statement supporting the artwork, an oral presentation, an exhibit, and digital documentation of the work.

ATDI Automotive and Diesel

ATDI 1234 4 CR (2 LEC, 4 LAB) FALL,SPRING
THEORY AND MAINTENANCE

Beginning course for all automotive and diesel students with major emphasis on design, operation and servicing of vehicles and related systems.

ATDI 1334 4 CR (2 LEC, 4 LAB) FALL
BRAKING SYSTEMS

Prerequisite or corequisite: ATDI 1234 Theory and Maintenance

A study of the functioning of braking systems. Students gain experience working with all types of braking systems to include drum type, four-wheel disc, anti-lock brakes, S-cam service brakes, and air brake systems.

ATDI 1354 4 CR (2 LEC, 4 LAB) SPRING
SUSPENSION AND STEERING

Prerequisite or corequisite: ATDI 1234 Theory and Maintenance

A study of the functioning of conventional suspension, air ride suspension, and steering systems. Students gain experience working with alignment equipment, balancing wheels and adjusting steering systems.

ATDI 1434 4 CR (2 LEC, 4 LAB) SPRING
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, and regulators. Students learn trouble shooting techniques using wiring diagrams and schematics.

ATDI 1584 4 CR (2 LEC, 4 LAB) SUMMER
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.

ATDI 2434 4 CR (2 LEC, 4 LAB) FALL
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.

AUTO Automotive Technology

AUTO 1284 4 CR (2 LEC, 4 LAB) FALL
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.

AUTO 1384 4 CR (2 LEC, 4 LAB) SPRING
INTRODUCTION TO MANUAL TRANSMISSIONS AND DRIVETRAINS

Prerequisite or corequisite: ATDI 1234 Theory and Maintenance

A study of the function and adaptation of transmissions. Various types of power trains are studied in both rear-wheel and front-wheel vehicles. Students are familiarized with the operation and repair of clutches, manual transmissions, trans axles, differentials and drivelines.

AUTO 1484 4 CR (2 LEC, 4 LAB) FALL
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.

AUTO 1534 4 CR (2 LEC, 4 LAB) IRREGULAR
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.

AUTO 2484 4 CR (2 LEC, 4 LAB) SPRING
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-combustion systems.

AUTO 290V 1-5 CR (VARIABLE) IRREGULAR
AUTOMOTIVE: SPECIAL TOPICS

Prerequisite: consent of instructor

Designed to give special instruction for new and emerging topics in automotive technology not covered in the curriculum. Topics in these emerging technologies offered periodically based on the recognized needs of the field and the availability of the instruction. May be repeated for a total of five hours.

AUTO 295V 1-4 CR (INT/PRAC) IRREGULAR
AUTOMOTIVE INTERNSHIP

Prerequisite: general technology - automotive major with 30 hours completed in program, cumulative GPA of 2.5, and consent of department head

Provides work experience in an area business with on-site supervision and instructor observation.

AUTO 299V 1-3 CR (VARIABLE) IRREGULAR
AUTO MECHANICS: SPECIAL PROJECTS

Prerequisite: consent of instructor

Designed for the advanced automotive student who has completed or is enrolled in all other appropriate automotive courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated for a total of six hours.

BIOL Biology

BIOL 1151 1 CR (2 LAB) FALL, SPRING, SUMMER
BIOLOGICAL SCIENCE LABORATORY

Prerequisite or corequisite: BIOL 1153 Biological Science

Complements BIOL 1153; laboratory exercises are integrated with lecture topics and stress scientific methodology and thinking. Participation in animal dissections may be required.

BIOL 1153 3 CR (3 LEC) FALL, SPRING, SUMMER
BIOLOGICAL SCIENCE

General principles of biology and their relationship to society. A scientific focus is used to examine the maintenance of living systems and the interrelationship among living systems, and the biosphere. Topics include ecology, genetics, evolution, the diversity and unity of life, molecular and cellular biology. (ACTS: BIOL 1004; must complete BIOL 1153/1151)

BIOL 1154H 4 CR (3 LEC, 2 LAB) IRREGULAR
BIOLOGICAL SCIENCE (HONORS)

Prerequisite: acceptance into the Miles Friedman Honors program

Students acquire a broad understanding of biological and ecological principles and the methods of science, which help them make personal and social decisions involving biology. Content includes scientific methodology, organisms and ecology, evolution and genetics, the origin and diversity of life, cell organization and energetics, and the organ systems of higher animals.

BIOL 1431 1 CR (2 LAB) IRREGULAR
BASIC ANATOMY AND PHYSIOLOGY LABORATORY

Prerequisite or corequisite: BIOL 1433 Basic Anatomy and Physiology or consent of instructor

Complements BIOL 1433; includes the hierarchy of body structure and organization and basic biological chemistry. The structures and functions of each body system are studied, with emphasis on the contribution that each makes to homeostasis.

BIOL 1433 3 CR (3 LEC) IRREGULAR
BASIC ANATOMY AND PHYSIOLOGY

Prerequisite or corequisite: BIOL 1431 Basic Anatomy and Physiology Laboratory or consent of instructor

Fundamentals of human anatomy and physiology. Includes hierarchy of body structure and organization and basic biological chemistry. Structures and functions of each body system are studied, with emphasis on contribution each makes to homeostasis.

BIOL 200V 1-3 (VARIABLE) IRREGULAR
INTRODUCTION TO UNDERGRADUATE RESEARCH

Prerequisites: freshman or sophomore standing and consent of department head

Introduction to undergraduate research focusing on scientific topics appropriate for freshman and sophomore students. Students will review scientific methods to design experiments, identify variables, collect and analyze data, and present research findings in written or oral form. The course may be repeated for a total of six hours.

BIOL 2003 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO CELL BIOLOGY

Prerequisite or corequisite: CHEM 1403 College Chemistry I

Study of the general principles of biology. The focus is on natural laws, the maintenance of living systems, and evolutionary concepts central to biology. Topics include cellular structure and function, genetics, evolution, and molecular and cellular biology. Course intended for science majors.

BIOL 2011 1 CR (3 LAB) FALL, SPRING
GENERAL BIOLOGY LABORATORY

Prerequisite or corequisite: BIOL 2003 Introduction to Cell Biology and BIOL 2013 Introduction to Organismal Biology

Introduction to basic biological laboratory techniques, scientific method, and experimentation. Course is designed to complement concepts presented in BIOL 2003 and BIOL 2013.

BIOL 2013 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO ORGANISMAL BIOLOGY

Prerequisite or corequisite: CHEM 1403 College Chemistry I

Study of the general principles of biology from an organismal perspective. Topics include ecological and evolutionary concepts, global and community biodiversity, and the basic principles of physiology in plants and animals. Course is intended for science majors.

BIOL 2201 1 CR (2 LAB) FALL, SPRING, SUMMER
HUMAN ANATOMY LABORATORY

Prerequisites: BIOL 1153/1151 Biological Science/Laboratory or BIOL 2003 Introduction to Cell Biology or prerequisite/corequisite of CHEM 1303/1301 Chemical Principles/Laboratory or higher level chemistry

Prerequisite or corequisite: BIOL 2203 Human Anatomy

Study of microscopic and gross anatomical structures of the major human organ systems. Dissections are required.

BIOL 2203 3 CR (3 LEC) FALL, SPRING, SUMMER
HUMAN ANATOMY

Prerequisites: BIOL 1153/1151 Biological Science/Laboratory or BIOL 2003 Introduction to Cell Biology or prerequisite/corequisite of CHEM 1303/1301 Chemical Principles/Laboratory or higher level chemistry

Prerequisite or corequisite: BIOL 2201 Human Anatomy Laboratory

Study of the microscopic and gross anatomical structures of the major human organ systems. (ACTS: BIOL 2404; must complete BIOL 2203/2201)

BIOL 2211 1 CR (2 LAB) FALL, SPRING, SUMMER
HUMAN PHYSIOLOGY LABORATORY

Prerequisites: BIOL 2203/BIOL 2201 Human Anatomy/Laboratory

Prerequisite or corequisite: BIOL 2213 Human Physiology

Investigations of human physiological processes will be used to enhance the integration of content presented in BIOL 2213. Clinical scenarios are incorporated throughout the course to assist students in correlating basic physiology with the pathophysiologic outcomes.

BIOL 2213 3 CR (3 LEC) FALL, SPRING, SUMMER
HUMAN PHYSIOLOGY

Prerequisites: BIOL 2203/BIOL 2201 Human Anatomy/Laboratory

Prerequisite or corequisite: BIOL 2211 Human Physiology Laboratory

Provides students with an understanding of the function of the human body. Emphasis will be placed on the integration and regulation of various organ systems. Course content will include neural and hormonal homeostatic control mechanisms, as well as study of the musculoskeletal, circulatory, respiratory, digestive, urinary, immune, reproductive, and endocrine organ systems. (ACTS: BIOL 2414; must complete BIOL 2213/2211)

BIOL 2301 1 CR (3 LAB) FALL, SPRING
GENERAL BOTANY LABORATORY

Prerequisite: BIOL 1151 Biological Science Laboratory or BIOL 2011 General Biology Laboratory

Prerequisite or corequisite: BIOL 2303 General Botany

A survey of plant anatomy, physiology, morphology and taxonomy.

BIOL 2303 3 CR (3 LEC) FALL, SPRING
GENERAL BOTANY

Prerequisite: BIOL 1153 Biological Science or BIOL 2013 Introduction to Organismal Biology

Molecular, cellular and physiological aspects of botany, plant metabolic processes, and plant ecology are presented. The plant phyla are surveyed from an evolutionary perspective. (ACTS: BIOL 1034; must complete BIOL 2303/2301)

BIOL 2501 1 CR (2 LAB) FALL, SPRING, SUMMER
GENERAL MICROBIOLOGY LABORATORY

Prerequisite or corequisite: BIOL 2503 General Microbiology

A study of the basic techniques used in microbiology including culturing and isolation strategies along with aseptic technique. Biochemical tests using differential media will be used to identify bacteria and enumeration techniques such as serial dilutions. Immunological testing using agglutination for blood typing and ELISA for identification and diagnosis will be employed.

BIOL 2503 3 CR (3 LEC) FALL, SPRING, SUMMER
GENERAL MICROBIOLOGY

Prerequisite: BIOL 1153/1151 Biological Science/Laboratory or BIOL 2003 Introduction to Cell Biology or CHEM 1303/1301 Chemistry Principles/Laboratory or CHEM 1403/1401 College Chemistry I/Laboratory

A general overview of the topic of microbiology including culturing and enumeration techniques, metabolism, microbial genetics, taxonomy, sterilization and disinfection, disease processes and immunology. The course will conclude with a survey of infectious diseases, immunological disorders, immunizations, and chemotherapy. (ACTS: BIOL 2004; must complete BIOL 2503 /2501)

BIOL 2701 1 CR (3 LAB) FALL, SPRING
GENERAL ZOOLOGY LABORATORY

Prerequisite: BIOL 1151 Biological Science Laboratory or BIOL 2011 General Biology Laboratory

Prerequisite or corequisite: BIOL 2703 General Zoology

Covers the classification, morphology, and major biological features of animals.

BIOL 2703 3 CR (3 LEC) FALL, SPRING
GENERAL ZOOLOGY

Prerequisite: BIOL 1153 Biological Science or BIOL 2013 Introduction to Organismal Biology

Comparative study of the classification, phylogeny, natural history, and ecology of animals. Includes a survey of the major animal phyla, their evolutionary relationships, and main biological features, and strategies for survival. (ACTS: BIOL 1054: must complete BIOL 2703/2701.

BIOL 3204 4 CR (3 LEC, 3 LAB) IRREGULAR
CONSERVATION AND ENVIRONMENTAL SCIENCE

Prerequisites: BIOL 2303/2301 General Botany/Laboratory or BIOL 2503/2501 General Microbiology/Laboratory or BIOL 2703/2701 General Zoology/Laboratory, CHEM 1303/1301 Chemical Principles/Laboratory or CHEM 1403/1401 College Chemistry I/Laboratory, and STAT 2503 Probability and Statistics

Examines a variety of biological, chemical, and radioactive pollution problems plaguing the modern world. Detrimental effects of pollution on delicate ecosystems are studied intensely. Proper safety precautions and regulations needed to properly handle hazardous materials will be critiqued. Students are exposed to bioremediation and other cleanup measures being implemented today, along with a review of relevant case studies.

BIOL 3401 1 CR (3 LAB) FALL, SPRING
ECOLOGY LABORATORY

Prerequisite or corequisite: BIOL 3403 Ecology

Field and lab exercises on a variety of topics dealing with distribution and abundance of organisms, and with the interactions among organisms and their environment.

BIOL 3403 3 CR (3 LEC) FALL, SPRING
ECOLOGY

Prerequisites: STAT 2503 Probability and Statistics I and one of the following: BIOL 2303/2301 General Botany /Laboratory or BIOL 2503/2501 General Microbiology /Laboratory or BIOL 2703/2701 General Zoology /Laboratory

Prerequisite or corequisite: BIOL 3401 Ecology Laboratory

Broad overview of interactions between organisms and their environment, and the interactions between various organisms. Special emphasis on how humans affect populations, communities, and the biosphere.

BIOL 3453 3 CR (3 LEC) IRREGULAR
MARINE ECOSYSTEMS

Prerequisite: BIOL 1153 Biological Science or BIOL 2003 Introduction to Cell Biology or BIOL 2013 Introduction to Organismal Biology

A survey of oceanography, marine biodiversity and ecosystems, and the impact of humans on the world's oceans.

BIOL 3503 3 CR (3 LEC) IRREGULAR
CULTURAL AND ECONOMIC BOTANY

Prerequisite: BIOL 2303/2301 General Botany/Laboratory or consent of instructor

An introduction to the important uses of plants throughout human history and in the current global economy. Topics include economic, medical, agricultural, ethnographic and herbal uses of diverse groups of plants across various societies. Significant focus will be placed on the effects of humans on the modification of plants through selection and culture practices as well as the effects of plants on the development of human social structure.

BIOL 3603 3 CR (3 LEC) IRREGULAR
VERTEBRATE ZOOLOGY

Prerequisites: BIOL 2703/2701 General Zoology/Laboratory

Provides a broad and basic background of the biology of vertebrate animals and explains how vertebrates function, evolve, and interact with each other. The course includes a comparative overview of the origins, phylogeny, and major morphological and physiological adaptations of fishes, amphibians, reptiles, birds, and mammals. Special emphasis is placed on regional forms.

BIOL 3704 4 CR (3 LEC, 3 LAB) IRREGULAR
INVERTEBRATE ZOOLOGY

Prerequisites: BIOL 2703/2701 General Zoology/ Laboratory, and ENGL 1213 Composition II or RHET 2863 Advanced Composition

Survey of major invertebrate phyla. Introduction to morphology, physiology, behavior, and ecology of major

invertebrate groups as they relate to phylogenetic relationships, and adaptations for specific habitats and lifestyles.

BIOL 3801 — 1 CR (3 LAB) FALL, SPRING
GENETICS LABORATORY

Prerequisite or corequisite: BIOL 3803 Genetics

Heredity and the patterns of inheritance will be studied in detail including data collection and analysis of experimental crosses. DNA isolation and analysis using modern Recombinant DNA technology and Polymerase Chain Reaction (PCR) will be performed and data will be collected and analyzed. Recombinant DNA, transcription, and translation will be analyzed at the molecular level.

BIOL 3803 — 3 CR (3 LEC) FALL, SPRING
GENETICS

Prerequisites: BIOL 2003 Introduction to Cell Biology and CHEM 1403/1401 College Chemistry I/Laboratory and STAT 2503 Probability and Statistics I or higher STAT, or MATH equivalent to ACT mathematics score of 23 or higher

Prerequisite or corequisite: BIOL 3801 Genetics Laboratory

Replication, transcription and translation are studied in detail at the molecular level. Differences between prokaryotes and eukaryotes are studied in how they express genetic traits. Heredity will be studied in detail including genetic defects, oncogenes and gene therapy. Recombinant DNA technology is examined thoroughly to develop an understanding of restriction enzymes and gel electrophoresis.

BIOL 3814 — 4 CR (3 LEC, 3 LAB) IRREGULAR
ANIMAL PHYSIOLOGY

Prerequisites: BIOL 2703/2701 General Zoology/Laboratory, BIOL 3803/3801 Genetics/Laboratory, and CHEM 2703/2701 Organic Chemistry I/Laboratory

An introduction to animal structure and function. Basic mechanisms of physiology related to major systems will be covered including neurobiology, endocrinology, movement, circulation, gas exchange, digestion, and ionic and osmotic balance. A comparative approach emphasizing how physiological differences among animal species have evolved based upon the need for the animal to adapt to the environment.

BIOL 3824 — 4 CR (3 LEC, 3 LAB) IRREGULAR
PLANT PHYSIOLOGY

Prerequisites: BIOL 2303/2301 General Botany/Laboratory, BIOL 3803/3801 Genetics/Laboratory, and CHEM 2703/2701 Organic Chemistry I/Laboratory

A study of the physical and biochemical processes of plant functions, including water relations, photosynthesis, and growth and development.

BIOL 3834 — 4 CR (3 LEC, 3 LAB) IRREGULAR
MICROBIAL PHYSIOLOGY

Prerequisites: BIOL 2503/2501 General Microbiology/Laboratory, BIOL 3803/3801 Genetics/Laboratory, and CHEM 2703/2701 Organic Chemistry I/Laboratory

A molecular study of the composition of prokaryotic cells, the metabolic chemistry of bacteria with emphasis on the aerobic and anaerobic energy yielding reactions, mechanisms of enzyme activity in bacterial physiology, and genetic control of bacterial processes.

BIOL 4001 — 1 CR (1 LEC) FALL, SPRING
SEMINAR IN BIOLOGY

Prerequisites: senior standing

Prerequisite or corequisite: BIOL 4803/4801 Cell and Molecular Biology/Laboratory and one of the following: BIOL 3814 Animal Physiology, or BIOL 3824 Plant Physiology, or BIOL 3834 Microbial Physiology

Exposes students to the details of scientific communication methods and develops their abilities to acquire, organize, assimilate, and present scientific information. Examination of published information pertaining to biological questions and presentation of the findings to biology department faculty members is required.

BIOL 400V — 1-3 CR (VARIABLE) IRREGULAR
UNDERGRADUATE RESEARCH IN BIOLOGY

Prerequisite: biology major, completion of at least 12 hours of Biology coursework, junior standing, and consent of instructor.

A course that covers the scientific method by giving practical exposure to hypothesis testing, experimental design, data collection and analysis. Students are required to do a department-wide presentation of their findings at the end of the term. May be repeated when topics differ for a total of six hours.

BIOL 4103 — 3 CR (2 LEC, 3 LAB) IRREGULAR
SCIENCE TEACHING METHODS

Prerequisite: admission to educator preparation program

Corequisite: EDUC 4211 Practicum II or consent of instructor

Designed to give the pre-service science teacher opportunities to reflect upon and design curricula for the classroom. New methods of teaching science will be explored and modeled throughout the course, and the creation of laboratory exercises is emphasized.

BIOL 4203 — 3 CR (3 LEC) IRREGULAR
PATHOGENIC MICROBIOLOGY

Prerequisite: BIOL 2503/2501 General Microbiology/Laboratory

A study of the morphology, physiology, and immunogenicity of disease-causing bacteria, viruses, and eukaryotic parasites. Additional topics will include methods of isolation, identification and control of pathogens and disease.

BIOL 4213 — 3 CR (3 LEC) IRREGULAR
VIROLOGY

Prerequisite: BIOL 2503/2501 General Microbiology/Laboratory

A study of the representative bacterial, animal, and plant viruses.

BIOL 4223 — 3 CR (3 LEC) IRREGULAR
FOOD MICROBIOLOGY

Prerequisite: BIOL 2503/2501 General Microbiology/Laboratory

The role of microorganisms in the preservation, spoilage, poisoning of food products, and their role in the manufacture of products of agricultural origin.

BIOL 4233 — 3 CR (3 LEC) IRREGULAR
BIOCHEMICAL GENETICS

Prerequisite: BIOL 3803 Genetics

Focuses on molecular and biochemical techniques used in research, delving extensively into the process of each technique covered, and discussion of applications and shortcomings.

BIOL 4253 — 3 CR (3 LEC) IRREGULAR
ZOOGEOGRAPHY

Prerequisite: BIOL 3403/3401 Ecology/Laboratory

An examination of the spatial patterns of biodiversity based on the effects of historical geology, climate, topography, evolution, and biological interactions.

BIOL 4263 **3 CR (3 LEC) IRREGULAR**
WILDLIFE CONSERVATION

Prerequisite: BIOL 3403/3401 Ecology/Laboratory

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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
HUMAN EVOLUTIONARY GENETICS

Prerequisite: BIOL 3803 Genetics

Prerequisite or corequisite: BIOL 4403 Evolutionary Biology

A survey of human genomics, genetics, and phylogenetics, 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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
MAMMALOGY

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) FALL, SPRING**
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) FALL, SPRING**
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) IRREGULAR**
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) IRREGULAR**
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 birds of Arkansas. Laboratory will primarily entail field work.

BIOL 4904 **4 CR (3 LEC, 3 LAB) IRREGULAR**
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.

BIOL 4913 **3 CR (3 LEC) IRREGULAR**
ANIMAL BEHAVIOR

Prerequisites: BIOL 2703/2701 General Zoology/Laboratory or PSYC 2613 Research Methods in Psychology or consent of instructor

An examination of the principles of animal behavior from an explicitly evolutionary perspective. Topics will include communication, foraging, mate choice, and parental care, among others.

BIOL 4914 **4 CR (3 LEC, 3 LAB) IRREGULAR**
DEVELOPMENTAL BIOLOGY

Prerequisites: BIOL 3803/3801 Genetics/Laboratory

The study of the progression through time and space from a single cell, the fertilized egg, to a complex multicellular organism. Explores the processes of morphogenesis, differentiation, pattern formation, growth, and reproduction at the molecular, cellular, and organismal levels to provide a current overview of development in a wide variety of organisms.

BIOL 4923 **3 CR (3 LEC) IRREGULAR**
IMMUNOLOGY

Prerequisites: BIOL 3803/3801 Genetics/Laboratory

Fundamental mechanisms of the immune system with applications in basic research and medicine. Topics include the mechanisms of induction, regulation, and expression of the cellular and humoral immune responses, immunochemistry, antigen-antibody reactions, immunogenetics, immunopathologies, and immunodeficiencies.

BSAT Animation Technology

BSAT 3004 **4 CR (2 LEC, 4 LAB) FALL**
ANIMATION OVERVIEW

Provides an orientation of animation techniques and 3D modeling practices for transfer and non-Digital Design CGT students. Beneficial for disciplines such as architects, engineers, and designers interested in animation and who have basic CAD knowledge.

BSAT 3013 **3 CR (2 LEC, 2 LAB) IRREGULAR**
3D SPATIAL ANALYSIS

Prerequisite: UAS 2203 Land Surveying and Information Systems or consent of department head

Prerequisite or corequisite: BSAT 3003 GIS Analysis

Focuses primarily on the representation of data and spatial areas in three dimensions that can then be graphically analyzed. Projects will include problems from the field of civil engineering, statistics, mapping, environmental, and manufacturing.

BSAT 3014 **4 CR (2 LEC, 4 LAB) IRREGULAR**
MODELING PROCESSES

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

Concepts, commands, and techniques used in creating models with 3D printing and computer numerical control (CNC) equipment. Various materials will be used including ABS plastics, Styrofoam, wood and aluminum.

BSAT 3023 **3 CR (2 LEC, 2 LAB) FALL**
DIGITAL PRODUCTION TECHNIQUES

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

Focuses on the use of digital technologies and strategies for composing video productions, simulations, and animations. Post production techniques, story boarding, and composition will be covered.

BSAT 3033 **3 CR (2 LEC, 2 LAB) FALL**
MOTION FOR APPLIED ANIMATION

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

Focuses on the creation of natural appearing motion for animated characters. Subjects include motion, motion capture systems and procedures for representing motion in an animation.

BSAT 3043 **3 CR (2 LEC, 2 LAB) SPRING**
LIGHTING AND RENDERING

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

A complete review of computer generated lighting options. Students will prepare an animation showing unique lighting techniques.

BSAT 3053 **3 CR (2 LEC, 2 LAB) SPRING**
RECORDING METHODS FOR HISTORIC STRUCTURES

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

Instruction in methods and techniques of architectural, engineering, and industrial documentation, including the preparation of drawings and photographs to general requirements of documenting historical structures.

BSAT 3063 **3 CR (2 LEC, 2 LAB) IRREGULAR**
CAD MANAGEMENT

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

Instruction in the methods and techniques used in industry for standards, organization, and management of a multi-person design office using CAD software.

BSAT 3084 **4 CR (2 LEC, 4 LAB) SPRING**
3D ADVANCED CONCEPTS

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

Intensive application of advanced 3D gaming software packages.

BSAT 3774 **4 CR (2 LEC, 4 LAB) IRREGULAR**
ADVANCED CAD CUSTOMIZATION

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

Provides in-depth understanding of graphic software while learning to configure basic shape files, complex line types, hatch patterns, along with CAD office configurations and plotting styles.

BSAT 3893 **3 CR (2 LEC, 2 LAB) FALL**
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.

BSAT 3993 **3 CR (2 LEC, 2 LAB) IRREGULAR**
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.

BSAT 4003 **3 CR (2 LEC, 2 LAB) IRREGULAR**
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.

BSAT 4013 **3 CR (2 LEC, 2 LAB) IRREGULAR**
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.

BSAT 4023 **3 CR (2 LEC, 2 LAB) IRREGULAR**
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.

BSAT 490V **2-4 CR (VARIABLE) IRREGULAR**
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 addresses. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the department head. May be repeated for a total of eight hours.

BSAT 4044 **4 CR (2 LEC, 4 LAB) SPRING**
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

CGT 1001 **1 CR (2 LAB) IRREGULAR**
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.

CGT 1204 **4 CR (2 LEC, 4 LAB) IRREGULAR**
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.

CGT 1234 **4 CR (2 LEC, 4 LAB) FALL, SPRING**
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.

CGT 1284 **4 CR (2 LEC, 4 LAB) SPRING**
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.

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

Introduction to industry standards for graphical representation of objects, 2D presentations, and 3D modeling, utilizing the commands resident in current graphic software.

CGT 1644 **4 CR (2 LEC, 4 LAB) SPRING**
3D VISUALIZATION

An introduction to the release of 3D software. Students research a 3D topic and prepare a written and oral report on the latest 3D applications. Current market trends and availability are reviewed.

CGT 1894 **4 CR (2 LEC, 4 LAB) IRREGULAR**
ROBOTICS CONCEPTS

Provides students with hands-on experience in learning and exploring how robots are designed, constructed, and tested for authentic achievement of design goals.

CGT 2303 **3 CR (2 LEC, 2 LAB) SPRING**
INTEGRATED 3D APPLICATIONS

Prerequisite: CGT 1644 3D Visualization

Introduces students to 3D programs and connectivity, including how to choose programs for the appropriate application. Students will research and utilize programs to develop scenes and animations.

CGT 2333 **3 CR (2 LEC, 2 LAB) SPRING**
FUNDAMENTALS OF TECHNICAL VISUAL COMMUNICATIONS

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

CGT 2624 **4 CR (2 LEC, 4 LAB) FALL, SPRING**
PHOTOSHOP APPLICATIONS
Prerequisite: declared CGT major or consent of instructor
Extensive coverage of skill sets necessary to successfully use Photoshop in multiple fields.

CGT 2634 **4 CR (2 LEC, 4 LAB) SPRING**
ARCHITECTURAL MATERIALS
Prerequisite: CGT 1284 Engineering Graphics II
Introduction to the concepts and common terminology used by the architectural industry. Information used for conventions, views, -materials, details, and codes used by architects.

CGT 2654 **4 CR (2 LEC, 4 LAB) FALL**
ARCHITECTURAL CAD APPLICATIONS
Prerequisite or corequisite: CGT 1644 3D Visualization
An in-depth study of the latest release of architectural software. The student generates 3D working drawings with rendered scenes from any angle in real-time. Current market trends and job availability are reviewed.

CGT 2664 **4 CR (2 LEC, 4 LAB) FALL**
DIGITAL DESIGN LEVEL I
Prerequisite: CGT 1644 3D Visualization
Introduction to industry leading software programs designed and specifically structured around the goals of creative development and design visualization.

CGT 2674 **4 CR (2 LEC, 4 LAB) FALL**
DIGITAL LAYOUT LEVEL I
Prerequisite: CGT 1644 3D Visualization
Provides students new techniques for modeling, texturing, and lighting scenes in a 3D environment.

CGT 2684 **4 CR (2 LEC, 4 LAB) SPRING**
DIGITAL DESIGN LEVEL II
Prerequisite: CGT 2664 Digital Design Level I
Provides student with advanced modeling techniques including particle systems and environmental effects.

CGT 2694 **4 CR (2 LEC, 4 LAB) SPRING**
DIGITAL LAYOUT LEVEL II
Prerequisite: CGT 2674 Digital Layout Level I
Combines design composition techniques acquired in CGT 2674 and applies them to create examples of real-world projects. Course focuses on post-production software used for composition and output of .avi, .mov, and other digital formats.

CGT 2744 **4 CR (2 LEC, 4 LAB) FALL, SPRING**
CAD LEVEL I
Prerequisite or corequisite: CGT 1001 CAD Concepts and Applications and CGT 1234 Engineering Graphics I
Introduction to CAD software and its uses for geometric construction, orthographic projection, section and auxiliary views, dimensioning, and drawing annotation. Students will also learn how to create and use title blocks along with the importance of plotting drawings to specific scales.

CGT 2764 **4 CR (2 LEC, 4 LAB) SPRING**
CAD LEVEL II
Prerequisite: CGT 2744 CAD Level I
Prerequisite or corequisite: MATH 1403 College Algebra or MATH 1715 Pre-Calculus Mathematics
Involves the use of several advanced CAD features such as productivity techniques, user coordinate systems, external references, advanced plotting, advanced grips, region modeling system variables, object filtering, and wildcards.

CGT 2834 **4 CR (2 LEC, 4 LAB) SPRING**
MACHINE DRAWING AND DESIGN
Prerequisite: CGT 2894 Parametric Modeling
Prerequisite or corequisite: CGT 2764 CAD Level II
Preparation of advanced machine detail and assembly drawings based on actual problems encountered in industry. Drawings are prepared applying machine finishes and consideration of appropriate manufacturing processes. Supplementary topics are stress analysis and scheduling of design and drafting projects in industry.

CGT 2894 **4 CR (2 LEC, 4 LAB) FALL**
PARAMETRIC MODELING
Prerequisite: CGT 1644 3D Visualization
Introduces the concepts, commands, and techniques of parametric modeling. Brings together tools used for part modeling, assembly modeling, and surface modeling.

CGT 290V **1-5 CR (VARIABLE) IRREGULAR**
CGT: SPECIAL TOPICS
Prerequisite: consent of department head or instructor.
Special instruction on new and emerging topics in CGT that are not otherwise covered in the curriculum. May be repeated for a total of eight hours.

CGT 295V **1-4 CR (INT/PRAC) IRREGULAR**
COMPUTER GRAPHIC TECHNOLOGY INTERNSHIP
Prerequisite: computer graphic technology major with 30 hours completed in program, cumulative GPA of 2.5, and consent of department head
Provides work experience in an area business with on-site supervision and instructor observation.

CGT 299V **1-3 CR (VARIABLE) IRREGULAR**
CGT: SPECIAL PROJECTS
Prerequisite: consent of department head
For the advanced CGT student who has completed or is enrolled in all other appropriate CGT courses. 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

CGT 2994 **4 CR (2 LEC, 4 LAB) SPRING**
CAPSTONE PROJECT
Prerequisite: consent of department head
The capstone project is intended to provide the student with the opportunity to compile and present their electronic portfolio. Additional assignments may encompass a wide variety of activities depending on the specific needs of the course.

CHED Coaching Education

CHED 2013 **3 CR (3 LEC) IRREGULAR**
CARE AND PREVENTION OF ATHLETIC INJURIES
Provides the theory, principles, and skills used in the prevention, care, and rehabilitation of athletic injuries. Key topics of study include anatomy, evaluation, treatment, rehabilitation techniques, emergency procedures, and liability issues in athletics.

CHED 2023 3 CR (3 LEC) IRREGULAR
MOTOR DEVELOPMENT AND LEARNING

Emphasizes theories and task analysis focused on motor skill acquisition as well as the processes underlying skilled performance and how to apply the principles of performance and learning in coaching settings.

CHED 3113 3 CR (3 LEC) IRREGULAR
THEORY OF COACHING

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries and CHED 2023 Motor Development and Learning

Corequisite: one of the following: CHED 3121 Practicum of Coaching Football, CHED 3131 Practicum of Coaching Basketball, CHED 3141 Practicum of Coaching Baseball/ Softball, CHED 3151 Practicum of Coaching Volleyball, CHED 3161 Practicum of Coaching Track, or CHED 3171 Practicum of Coaching Soccer

Addresses competitive sports, coaching roles, organizational influences, and media relations.

CHED 3121 1 CR (2 LAB) IRREGULAR
PRACTICUM OF COACHING FOOTBALL

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries, CHED 2023 Motor Development and Learning, satisfactory FBI background check, and Arkansas Central Registry Maltreatment background check

Prerequisite or corequisite: CHED 3113 Theory of Coaching

Emphasizes techniques particular to football. A fifteen-hour field experience is required.

CHED 3123 3 CR (3 LEC) IRREGULAR
KINESIOLOGY

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries and CHED 2023 Motor Development and Learning

Study of human anatomy with its adaptations to biomechanical principles, including the skeletal, muscular, vascular and nervous systems.

CHED 3131 1 CR (2 LAB) IRREGULAR
PRACTICUM OF COACHING BASKETBALL

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries, CHED 2023 Motor Development and Learning, satisfactory FBI background check, and Arkansas Central Registry Maltreatment background check

Prerequisite or corequisite: CHED 3113 Theory of Coaching

Emphasizes techniques particular to basketball. A fifteen-hour field experience is required.

CHED 3141 1 CR (2 LAB) IRREGULAR
PRACTICUM OF COACHING BASEBALL/SOFTBALL

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries, CHED 2023 Motor Development and Learning, satisfactory FBI background check, and Arkansas Central Registry Maltreatment background check

Prerequisite or corequisite: CHED 3113 Theory of Coaching

Emphasizes techniques particular to baseball and softball. A fifteen-hour field experience is required.

CHED 3151 1 CR (2 LAB) IRREGULAR
PRACTICUM OF COACHING VOLLEYBALL

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries, CHED 2023 Motor Development and Learning, satisfactory FBI background check, and Arkansas Central Registry Maltreatment background check

Prerequisite or corequisite: CHED 3113 Theory of Coaching

Emphasizes techniques particular to volleyball. A fifteen-hour field experience is required.

CHED 3161 1 CR (2 LAB) IRREGULAR
PRACTICUM OF COACHING TRACK

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries, CHED 2023 Motor Development and Learning, satisfactory FBI background check, and Arkansas Central Registry Maltreatment background check

Prerequisite or corequisite: CHED 3113 Theory of Coaching

Emphasizes techniques particular to track. A fifteen-hour field experience is required.

CHED 3171 1 CR (2 LAB) IRREGULAR
PRACTICUM OF COACHING SOCCER

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries, CHED 2023 Motor Development and Learning, satisfactory FBI background check, and Arkansas Central Registry Maltreatment background check

Prerequisite or corequisite: CHED 3113 Theory of Coaching

Emphasizes techniques particular to soccer. A fifteen-hour field experience is required.

CHED 4113 3 CR (3 LEC) IRREGULAR
ORGANIZATION AND ADMINISTRATION OF ATHLETICS

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries and CHED 2023 Motor Development and Learning

Techniques of marketing, finance, public relations, budgeting, philosophy, facility construction /utilization, and sports law are studied.

CHED 4123 3 CR (3 LEC) IRREGULAR
EXERCISE PHYSIOLOGY

Prerequisites: CHED 2013 Care and Prevention of Athletic Injuries and CHED 2023 Motor Development and Learning

A study of the current literature and research into the human body's function as it responds to physical activity.

CHEM Chemistry

CHEM 1301 1 CR (2 LAB) FALL, SPRING, SUMMER
CHEMICAL PRINCIPLES LABORATORY

Prerequisite: MATH 0304 Beginning and Intermediate Algebra or higher level MATH or exemption by placement

Prerequisite or corequisite: CHEM 1303 Chemical Principles

Application of the fundamental principles of chemistry as well as the collection and analysis of experimental data needed to solve chemistry problems.

CHEM 1303 3 CR (3 LEC) FALL, SPRING, SUMMER
CHEMICAL PRINCIPLES

Prerequisite: MATH 0304 Beginning and Intermediate Algebra or higher level MATH or exemption by placement

Covers the fundamental principles of chemistry as well as the mathematical manipulations required to solve chemistry problems. (ACTS: CHEM 1004; must have CHEM 1303/1301)

CHEM 1401 1 CR (3 LAB) FALL, SPRING, SUMMER
COLLEGE CHEMISTRY I LABORATORY

Prerequisite or corequisite: CHEM 1403 College Chemistry I

Investigative experience in basic chemistry necessary for advanced courses in science, to include the theoretical basis of atomic structure and bonding, stoichiometry, thermochemistry, and physical properties of matter.

CHEM 1403 3 CR (3 LEC) FALL, SPRING, SUMMER
COLLEGE CHEMISTRY I

Prerequisite: MATH 1403 College Algebra or higher MATH course or exemption by placement or CHEM 1303 Chemical Principles

Prerequisite or corequisite: CHEM 1401 College Chemistry I Laboratory

Basic chemical background necessary for advanced courses in science, to include the theoretical basis of atomic structure and bonding, stoichiometric calculations, classification of elements, thermochemistry, and physical properties of matter. CHEM 1303 and CHEM 1301 are highly recommended for students who have never taken a chemistry course. (ACTS: CHEM 1414; must have CHEM 1403/1401)

CHEM 1411 1 CR (3 LAB) FALL, SPRING, SUMMER
COLLEGE CHEMISTRY II LABORATORY

Prerequisite or corequisite: CHEM 1413 College Chemistry II

Investigative experience in basic chemistry, covering introductory organic chemistry, chemical equilibrium, thermodynamics, solubility equilibria, kinetics, acid-base theory, and oxidation-reduction.

CHEM 1413 3 CR (3 LEC) FALL, SPRING, SUMMER
COLLEGE CHEMISTRY II

Prerequisite: CHEM 1403/1401 College Chemistry I/ Laboratory

Prerequisite or Corequisite: CHEM 1411 College Chemistry II Laboratory

Covers introductory organic chemistry, chemical equilibrium, thermodynamics, solubility equilibria, kinetics, acid base theory and oxidation-reduction. (ACTS: CHEM 1424; must have CHEM 1413/1411)

CHEM 2701 1 CR (3 LAB) FALL, SPRING, SUMMER
ORGANIC CHEMISTRY I LABORATORY

Prerequisite or corequisite: CHEM 2703 Organic Chemistry I

Presentations of the physical and chemical properties, and structural analysis of aliphatic and aromatic hydrocarbons, alkyl halides, and alcohols.

CHEM 2703 3 CR (3 LEC) FALL, SPRING, SUMMER
ORGANIC CHEMISTRY I

Prerequisite: CHEM 1413 College Chemistry II

Covers the structural, stereochemical, physical, and chemical properties of hydrocarbons and alkyl halides. Mechanisms of substitution, elimination, and additional reactions will be used to explain trends in chemical reactivity.

CHEM 2711 1 CR (3 LAB) FALL, SPRING, SUMMER
ORGANIC CHEMISTRY II LABORATORY

Prerequisite or corequisite: CHEM 2713 Organic Chemistry II

Presentations of the physical and chemical properties, and structural analysis of aliphatic and aromatic hydrocarbons, alkyl halides, and alcohols.

CHEM 2713 3 CR (3 LEC) FALL, SPRING, SUMMER
ORGANIC CHEMISTRY II

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 IRREGULAR, MS, and NMR will also be covered.

CHEM 3034 4 CR (3 LEC, 3 LAB) IRREGULAR
DESCRIPTIVE INORGANIC CHEMISTRY

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.

CHEM 3202 2 CR (2 LEC) SPRING
CHEMICAL LITERATURE AND SEMINAR

Prerequisite: CHEM 2713 Organic Chemistry II

Uses modern chemical literature search methods to abstract information from the body of chemical literature. Students will present their findings in a variety of different methods such as written reports, oral seminars, and poster presentations.

CHEM 3303 3 CR (3 LEC) IRREGULAR
MEDICINAL CHEMISTRY

Prerequisite: CHEM 2713 Organic Chemistry II

Focuses on the discovery, invention, and/or design of biologically active compounds. Focuses on the metabolism, mode of action at the molecular level, and structure-activity relationship (SAR), and pharmacological activity of a wide-array of current medicinal compounds.

CHEM 3401 1 CR (3 LAB) FALL, SPRING
BIOCHEMISTRY I LABORATORY

Prerequisite or corequisite: CHEM 3403 Biochemistry I

An introduction to laboratory and analysis techniques used in biochemistry.

CHEM 3403 3 CR (3 LEC) FALL, SPRING
BIOCHEMISTRY I

Prerequisite: CHEM 2713 Organic Chemistry II and BIOL 2003 Introduction to Cell Biology

Structure and function of important classes of biomolecules and the relationships of structure to function are explored. An introduction to enzyme kinetics, biochemical thermodynamics, and biochemical solution relationships are included.

CHEM 3421 1 CR (3 LAB) SPRING
BIOCHEMISTRY II LABORATORY

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.

CHEM 3423 3 CR (3 LEC) SPRING
BIOCHEMISTRY II

Prerequisite: CHEM 3403 Biochemistry I

Presentations of metabolic regulation, enzyme kinetics, protein biosynthesis, and application of biochemical principles to physiological processes.

CHEM 3604 4 CR (3 LEC, 3 LAB) FALL
ANALYTICAL CHEMISTRY

Prerequisite: CHEM 1413/1411 College Chemistry II/ Laboratory

The total analysis concept is introduced and developed. This framework encompasses the areas of experimental design, sample collection and treatment, and statistical evaluation of results, as well as standard analysis techniques. Basic theory and laboratory practice in analytical chemistry, including introduction to multiple equilibria and chemical separation methods are addressed.

CHEM 3991 1 CR (3 LAB) IRREGULAR
FOUNDATIONS OF CHEMISTRY RESEARCH

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.

CHEM 400V 1-3 CR (VARIABLE) FALL, SPRING
CHEMISTRY RESEARCH

Prerequisite or corequisite: CHEM 3991 Foundations of Chemistry Research

Covers the scientific method by giving practical exposure to hypothesis testing, experimental design, data collection and analysis as it relates to one of the fields of chemistry. Students are required to publicly present their findings. This course may be repeated for a total of six credit hours.

CHEM 4203 3 CR (3 LEC) FALL
BIOPHYSICAL CHEMISTRY

Prerequisites: CHEM 2703 Organic Chemistry I, and PHYS 2823 College Physics II or PHYS 2923 University Physics II

Explores traditional physical chemistry subject matter from a biochemistry perspective. Topics will include thermodynamics, chemical and enzyme kinetics, solutions of macromolecules, chemical equilibria, transport and signaling processes, and bioenergetics

CHEM 4401 1 CR (3 LAB) IRREGULAR
INSTRUCTIONAL METHODS I

Prerequisite: CHEM 1413/1411 College Chemistry II/ Laboratory

Field experience in local junior or senior high school working as tutor in chemistry-related content. Students work in assigned school two hours per week and meet on campus one hour per week to discuss strategies and compare experiences. May be repeated for a total of two hours.

CHEM 4411 1 CR (3 LAB) IRREGULAR
LABORATORY METHODS I

Prerequisite: CHEM 2713/2711 Organic Chemistry II/ Laboratory

Practical experience in planning and carrying out laboratory exercises and demonstrations to suit a variety of levels of students. Students collaborate with instructors, peers, and laboratory students. May be repeated for a total of two hours.

CHEM 4421 1 CR (3 LAB) IRREGULAR
INSTRUCTIONAL METHODS II

Prerequisite: CHEM 4401 Instructional Methods I

Field experience in tutoring students in lower-level college chemistry courses. Students work in assigned labs two hours per week and meet with peers one hour per week to discuss strategies and compare experiences. May be repeated for a total of two hours.

CHEM 4431 1 CR (3 LAB) IRREGULAR
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 448V 1-3 CR (IND STU) IRREGULAR
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) IRREGULAR
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) ODD FALL
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) ODD SPRING
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) EVEN SPRING
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) IRREGULAR
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 select "Name Reactions". Transition state theory, free energy relationships and select derivatives: the reactivity selectivity principle and the Brown Selectivity Relationship (BSR). Includes the survey of (hyper) deamination.

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

Prerequisite or corequisite: CHEM 3604 Analytical Chemistry

Explores group theory and symmetry, molecular structure and -bonding, inorganic crystals, and mechanisms. Course is offered every other year; consult with faculty advisor.

CHEM 4803 **3 CR (3 LEC) IRREGULAR**
CHEMISTRY OF ENVIRONMENTAL POLLUTANTS

Prerequisite: CHEM 2713 Organic Chemistry II

Physicochemical, biochemical, and environmental properties and behaviors of selected environmental pollutants are examined, as are the molecular bases for their toxicities. Pollutants to be discussed include heavy metals, inorganics containing nitrogen, oxygen, and sulfur, and a variety of organics including hydrocarbons, chlorofluorocarbons, carbocation and free radical generators. Uptake, distribution and metabolism of exogenous compounds in man are examined.

CHEM 4903 **3 CR (3 LEC) EVEN SPRING**
SPECIAL TOPICS: CHEMISTRY

Prerequisite: CHEM 2713/2711 Organic Chemistry II/ Laboratory

Current advanced topics in chemistry are explored through lecture and/or laboratory work. Topics are selected based on student and faculty interest. May be repeated for a total of six hours.

CJ Criminal Justice

CJ 1013 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM

An overview of the issues and trends in the criminal justice system including ethics, law enforcement, courts and trial processes, corrections, jail and prison systems, juvenile justice systems, and the future of the criminal justice system. (ACTS: CRJU 1023)

CJ 1253 **3 CR (3 LEC) SPRING**
CRIMINOLOGY

Prerequisites or corequisites: CJ 1013 Introduction to the Criminal Justice System and SOCI 2753 Introduction to Sociology

A study of crime as a form of deviant behavior; nature and extent of crime; past and present theories; and evaluation of prevention, control, and treatment programs.

CJ 2003 **3 CR (3 LEC) SPRING**
INTRODUCTION TO CRIMINAL LAW

Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System

The study of criminal law including the classification of criminal offenses, elements of crimes, ranges of punishment, accomplice liability, and basic defenses to criminal charges.

CJ 2313 **3 CR (3 LEC) FALL**
CORRECTIONAL SYSTEMS AND PRACTICES

Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System

Analysis and evaluation of contemporary correctional systems and discussion of recent research concerning the correctional institution and the various field services.

CJ 2373 **3 CR (3 LEC) FALL**
POLICE SYSTEMS AND PRACTICES

Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System

Study of the philosophy and history of law enforcement; limitations imposed on law enforcement in a democratic society in accordance with the Constitution; agencies of law enforcement; the role and place of law enforcement in the total justice process. Examines the police profession; organization of law enforcement systems; police discretion; ethics; police community interaction; current and future issues in policing.

CJ 2402 **2 CR (2 LEC) SPRING**
CRIME SCENE DOCUMENTATION

Prerequisite or corequisite: 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.

CJ 2403 **3 CR (3 LEC) FALL**
LEGAL ASPECTS OF LAW ENFORCEMENT

Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System

A study of investigation, arrest, search and seizure; and constitutional and statutory law and the decisions of the United States Supreme Court and the Arkansas Court of Criminal Appeals.

CJ 2504 **4 CR (2 LEC, 4 LAB) FALL, SPRING**
CRIMINALISTICS: AN INTRODUCTION TO FORENSIC SCIENCE

Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System

Process of analysis of forensic evidence and developments in crime scene techniques, to include basic knowledge of, and some practical experience in, techniques concerning types of evidence including fingerprint, impression, hair, fiber, trace, firearm, tooth mark, biological, accelerant, explosive, and drug.

CJ 2513 **3 CR (3 LEC) SPRING**
JUVENILE DELINQUENCY AND JUVENILE JUSTICE

Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System

Nature and extent of delinquency, explanatory models and theories: the juvenile justice system; history, philosophy, and evaluation of the juvenile court, juvenile court practices and procedures; the role of the police officer and the correctional officer.

CJ 2603 **3 CR (3 LEC) FALL**
COURTS AND CRIMINAL PROCEDURE

Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System

Principles of police work, including arrests, search and seizure, and criminal procedures affected by constitutional safeguards.

CJ 290V **1-5 CR (VARIABLE) IRREGULAR**
CRIMINAL JUSTICE: SPECIAL TOPICS

Prerequisite: consent of instructor

Designed to give special instruction for new and emerging topics in the criminal justice field that are not otherwise covered in the curriculum. Topics will be offered periodically based

on the recognized needs of the field and the availability of the instruction. May be repeated for a total of five hours.

CJ 3003 **3 CR (3 LEC) SPRING**
WHITE COLLAR CRIME

Prerequisites: CJ 1253 Criminology and CJ 2603 Courts and Criminal Procedures

Examines white collar crime in the U.S. criminal justice system and throughout the world, including its history, types, and methods of perpetrating and prosecuting. Additional topics include the criminal justice system's responses and the societal views of the causes and effects of white collar crime.

CJ 3013 **3 CR (3 LEC) FALL**
ORGANIZED CRIME

Prerequisite: CJ 1253 Criminology

Provides a realistic concept and understanding of the problem of organized criminal activity throughout the world. Focuses on theories and the evolution of traditional organized crime in America as well as examining the many new and emerging organized crime groups attempting to acquire a stronghold on domestic criminal enterprises.

CJ 3023 **3 CR (3 LEC) SPRING**
CHILD MALTREATMENT

Prerequisite: criminal justice major or minor with junior standing or consent of department head

An overview of child abuse and maltreatment, including training required for mandated reporters in the state of Arkansas. Examines the sociological and psychological effects of abuse with emphasis on the effects on diverse racial ethnicity groups, and on the family structure and culture. The courses includes discussion on intervention strategies.

CJ 3033 **3 CR (3 LEC) FALL**
HATE CRIMES

Prerequisites or corequisites: CJ 1013 Introduction to the Criminal Justice System and CJ 1253 Criminology

Examines the causes, manifestations, rates, and consequences of hate crime in the United States and other countries. It covers hate groups and their interactions in society in the areas of recruitment and criminal activity. The course includes an overview of hate crime legislation at the federal and state level and the consequences and opposition to hate crime legislation.

CJ 3043 **3 CR (3 LEC) SPRING**
COMMUNITY CORRECTIONS

Prerequisite: CJ 2313 Correctional Systems and Practices

An examination of non-institutional correctional agencies and techniques including probation, parole, diversion, pretrial release, community service, restitution, halfway house, and similar programs.

CJ 3063 **3 CR (3 LEC) FALL**
INTRODUCTION TO CYBER CRIME

Prerequisites: CJ 1253 Criminology and CJ 2603 Courts and Criminal Procedures

Examines computer and network based crimes, including hacking, cyber pornography, and other activity. Examines tools used in the investigation and prosecution of cyber crimes, current laws and security measures, and future concerns for effective tracking and prevention.

CJ 3213 **3 CR (3 LEC) SPRING**
CRIMINAL INVESTIGATIONS

Prerequisite or corequisite: 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 3353 **3 CR (3 LEC) SPRING**
SERIAL KILLERS

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

Insights into the mind and criminal behaviors of serial killers. Case studies will be used to examine common characteristics of serial killers and their victims.

CJ 3363 **3 CR (3 LEC) FALL**
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 3413 **3 CR (3 LEC) SPRING**
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 390V **1-6 CR (VARIABLE) IRREGULAR**
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 3913 **3 CR (3 LEC) FALL**
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) SPRING**
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.

CJ 397V **3-6 CR (INT/PRAC) FALL, SPRING, SUMMER**
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 3983 **3 CR (3 LEC) FALL**
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 4113 **3 CR (3 LEC) FALL**
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 4833 **3 CR (3 LEC) SPRING**
ADMINISTRATIVE CONCEPTS IN LAW ENFORCEMENT

Prerequisite: CJ 2603 Courts and Criminal Procedure

Principles and practices of administration and their applications to law enforcement. Relationship of theoretical administrative concepts and practical police problems.

CJ 4883 **3 CR (3 LEC) FALL**
CURRENT POLICE POLICIES

Prerequisite: CJ 2313 Correctional Systems and Practices, CJ 2373 Police Systems and Practices, and one of the following: ENGL 1213 Composition II, or RHET 2863 Advanced Composition

Analysis of police policies with particular attention to the current major problem areas from the point of view of both the administrator and the line operations officer. Integration of established scientific knowledge with practical police experience in the various areas of police functioning.

CJ 4903 **3 CR (3 LEC) ODD SPRING**
CRIMINAL JUSTICE RESEARCH I

Prerequisites: criminal justice major with junior standing or consent of instructor, CJ 3983 Introduction to Research Methods, STAT 2503 Probability and Statistics I or PSYC 2513 Introduction to Behavioral Statistics, and ENGL 1213 Composition II or ENGL 1233 Honors Composition

Guides students through the research process. Students will learn how to identify a research topic, conduct literature reviews, develop research questions, select an appropriate research design, development data collection and measurement instruments, write an IRB proposal and obtain approval to conduct their research. Students will select a sample and collect primary and/or secondary data under the direction of a criminal justice faculty member.

CJ 4913 **3 CR (3 LEC) ODD FALL**
CRIMINAL JUSTICE RESEARCH II

Prerequisite: CJ 4903 Criminal Justice Research I

Continuation of research skills developed in CJ 4903. With faculty guidance, students will learn how to perform data entry, organize, and manage data. Will learn how to use statistical analysis software to analyze data collected in CJ 4903. The class will jointly compose a research white paper or article for presentation in a public forum and for future publication.

CJ 4953 **3 CR (3 LEC) SPRING**
CRIME AND FILM

Prerequisite: criminal justice major with junior or senior standing

Focuses on films as a reflection of ideas concerning crime, victimization and criminal justice. Traces societal trends, profiling the emergence of stereotypic depictions of crime and society's response to crime.

CJ 4963 **3 CR (3 LEC) FALL, SPRING**
CRIMINAL JUSTICE CAPSTONE

Prerequisite: criminal justice major with senior standing in semester of anticipated graduation and consent of instructor

Synthesizes disciplinary learning by integrating key concepts and theories with students' core area of criminal justice focus. Students will design and implement a comprehensive capstone project related to their area of focus culminating in a written and oral presentation

CNA Nursing Assistant

CNA 1006 **6 CR (4 LEC, 4 LAB) SPRING**
NURSING ASSISTANT

The nurse assistant's role will be explored in theory and practice with emphasis on skill proficiency, respecting client's rights, and therapeutic communication between nurse assistant and client and between nurse assistant and other healthcare providers.

COBI Business Integration

COBI 3533 **3 CR (VARIABLE) IRREGULAR**
INTERNATIONAL BUSINESS EXPERIENCE

Prerequisite: admission to the business program, or consent of instructor for majors outside the business program

Provides students the opportunity to learn about cultural differences between the United States and another foreign country, and business practices in that foreign country. Includes on-campus instruction and a study abroad experience.

COBI 4033 **3 CR (VARIABLE) IRREGULAR**
BUSINESS PLAN COMPETITION

Prerequisite: MGMT 3033 New Venture Creation and admission to the business program, or consent of instructor for majors outside the business program

Requires the application of principles of management, marketing and finance to a start-up business. Addresses the practical aspects of analyzing the planning and organizing, marketing, human resources, and financial control needs for a new business. Students work in teams to develop a business plan to be entered state, regional or national competitions

such as the Donald W. Reynolds Governor's Cup for Entrepreneurial Development.

COBI 457V 1-3 CR (VARIABLE) IRREGULAR
SPECIAL TOPICS: INTEGRATIVE EXPERIENCE

Prerequisite: admission to the business program or consent of instructor

Prerequisite or corequisite: may vary depending on topic.

Topics and current issues requiring the integration of functional areas in business will be addressed. Topics will vary and will be announced in the schedule of classes for the semester in which the course is offered. May be repeated for a maximum of nine hours.

COBI 467V 1-4 CR (INT/PRAC) FALL, SPRING, SUMMER
INTEGRATIVE INTERNSHIP

Prerequisite: Admission to the business program, overall GPA of 2.5, consent of instructor, and any additional criteria as specified for the position

Prerequisite or corequisite: MGMT 3153 Organizational Behavior

Designed to offer practical business experience working in an area business along with classroom instruction. The classroom instructor and a business representative will jointly supervise the external intern experience. Amount of credit is dependent upon the hours worked during the semester. May only count a maximum of six hours of COBI 467V and/or ACCT 467V combined.

CS Computer Science

CS 1014 4 CR (3 LEC, 2 LAB) FALL, SPRING
FOUNDATIONS OF PROGRAMMING I

Prerequisite: MATH 1403 College Algebra or exemption by placement

Introduces the fundamental techniques of programming needed for a foundation for more advanced study in information technology and computer science. Considerable attention is devoted to developing effective software engineering practice, algorithm design, decomposition, procedural abstraction, testing, and software reuse.

CS 1024 4 CR (3 LEC, 2 LAB) FALL, SPRING
FOUNDATIONS OF PROGRAMMING II

Prerequisite: CS 1014 Foundations of Programming I and MATH 1403 College Algebra or exemption by placement

Advanced programming techniques and concepts are presented to include programming paradigms, object-oriented programming, exception handling, graphical user interfaces, and event-driven programming.

CS 1033 3 CR (3 LEC) IRREGULAR
FOUNDATIONS OF OPERATING SYSTEMS I

Prerequisite or corequisite: CS 1044 Foundations of Networking

Introduces how operating systems work and examines the building blocks of all modern operating systems including processes, threads, file systems, input/output, memory architecture and memory management, buses, storage devices, graphics subsystems, and security. Specific examples of mobile and personal computer operating systems will be used to illustrate the concepts.

CS 1044 4 CR (4 LEC) SPRING
FOUNDATIONS OF NETWORKING

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

Provides the basic knowledge and skills to implement a simple local area network, including the OSI and TCP/IP network models, topologies, transmission media, network devices, Ethernet technologies, IP addressing, and subnets.

CS 1053 3 CR (3 LEC) IRREGULAR
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) FALL
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 1073 3 CR (3 LEC) IRREGULAR
INTRODUCTION TO MOBILE APPLICATIONS

Provides an introduction to programming fundamentals using the Swift language from Apple. Students will get practical experience with the tools and concepts needed to build mobile IOS applications.

CS 1093 3 CR (3 LEC) FALL, SPRING
COMPUTER SCIENCE CONCEPTS

An overview of the computer science discipline introducing the student to logic concepts, computational thinking, and problem solving.

CS 1213 3 CR (3 LEC) IRREGULAR
ENTERPRISE COMPUTING

Introduces concepts in modern enterprise systems. Topics for this course include enterprise servers and mainframe computing, operating systems, database systems, file systems and storage, security, availability, scalable computing, and enterprise programming languages (COBOL, JCL, etc.).

CS 1303 3 CR (3 LEC) IRREGULAR
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 2003 3 CR (3 LEC) FALL
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) FALL**
DATABASE SYSTEMS I
Prerequisite: CS 1014 Foundations of Programming I
Introduction to database management systems, implementation, and theory.

CS 2022 **2 CR (2 LEC) IRREGULAR**
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) SPRING**
WEB SYSTEMS
Prerequisite: CS 1024 Foundations of Programming II
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 scripting language.

CS 2043 **3 CR (3 LEC) SPRING**
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 2053 **3 CR (3 LEC) FALL**
FOUNDATIONS OF CYBERSECURITY
Prerequisites: CS 1014 Foundations of Programming I and CS 1044 Foundations of Networking
Examines the business continuity mandate for securing computing assets, including physical versus logical security, categorization and analysis of threats, organizational security policies, and identification of security measures.

CS 298V **1-3 CR (VARIABLE) FALL, SPRING, SUMMER**
INTRODUCTION TO UNDERGRADUATE RESEARCH
Prerequisites: freshman or sophomore standing and consent of department head
Introduction to undergraduate research focusing on computer science topics appropriate for freshman and sophomore students. Students will review scientific methods to design experiments, identify variables, collect and analyze data, and present research findings in written or oral form. The course may be repeated for a total of six hours.

CS 3003 **3 CR (3 LEC) SPRING**
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) IRREGULAR**
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.

CS 3023 **3 CR (3 LEC) IRREGULAR**
RESEARCH METHODS IN INFORMATION TECHNOLOGY
Prerequisites: CS 2003 Data Structures, ENGL 1213 Composition II, and STAT 2503 Probability and Statistics I
Review of current IT research, and instruction on determining the veracity of published assessments of technology. Student will also learn how to design a research project for accurate results.

CS 3033 **3 CR (3 LEC) FALL**
COMPUTER ARCHITECTURE
Prerequisite: CS 2003 Data Structures
Studies the organization and architecture of computer systems, beginning with the standard von Neumann model to current. Topics include digital logic, instruction set architecture, machine and assembly instructions, memory, and multiprocessors.

CS 3043 **3 CR (3 LEC) FALL**
DATABASE SYSTEMS
Prerequisite: CS 2003 Data Structures
Introduces concepts in modern data storage and processing systems. Topics include data models, query languages, relational algebra and calculus, query processing and optimization, database design theory, transaction processing, data storage and indexing, recovery, concurrency, and distributed databases.

CS 3053 **3 CR (3 LEC) SPRING**
OPERATING SYSTEMS
Prerequisite: CS 2003 Data Structures
An examination of the software that provides an abstraction of hardware and manages shared resources among applications. Hardware interfaces, system calls, user mode and kernel mode tasks, and operating system design and development are emphasized.

CS 3103 **3 CR (3 LEC) FALL**
ALGORITHMS
Prerequisites: CS 2003 Data Structures and MATH 2443 Discrete Mathematics I
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.

CS 3113 **3 CR (3 LEC) SPRING**
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.

CS 3123 **3 CR (3 LEC) IRREGULAR**
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.

CS 3133 **3 CR (3 LEC) IRREGULAR**
BUSINESS APPLICATION PROGRAMMING II
Prerequisite: CS 3123 Business Application Programming I

Concentrates on advanced native COBOL file systems and processing techniques, designing and implementing a system of sub-programs, and other advanced COBOL topics.

CS 3143 — 3 CR (3 LEC) IRREGULAR
GAME DESIGN AND DEVELOPMENT

Prerequisite: CS 2003 Data Structures

Introduction to computer game design theory and application. Topics include game design methodology, architectures, computer graphics, game mechanics, and artificial intelligence.

CS 3223 — 3 CR (3 LEC) IRREGULAR
ROUTING AND SWITCHING

Prerequisites: CS 1033 Foundations of Operating Systems I and CS 1063 Foundations of Operating Systems II

Examines network routing and switching concepts and their methods of implementation, including routed and routing protocols, router and switch configuration, router and switch security, access control lists (ACLs), and virtual local area networks (VLANs).

CS 3233 — 3 CR (3 LEC) IRREGULAR
NETWORK SERVICES

Prerequisite: CS 3223 Routing and Switching

Introduction to how organizations design and implement required services on a network infrastructure for all sizes of organizations. Students will design and implement complete organizational networks and then have several smaller projects to design/implement various network services within that network.

CS 3323 — 3 CR (3 LEC) IRREGULAR
COMPUTER GRAPHICS

Prerequisite: CS 2003 Data Structures

Examines the generation and manipulation of computer images and digital media. Topics include basic theories and concepts around computer graphics, hardware, geometric modeling, and display algorithms and data structures.

CS 3333 — 3 CR (3 LEC) IRREGULAR
BIG DATA

Prerequisite: CS 1303 Introduction to Data Science or CS 2003 Data Structures

Examines the design, implementation and utilization of large-scale data clusters and parallel DBMS architectures. Students learn how to manipulate, organize and manage data by utilizing emerging technologies to achieve highly scalable systems.

CS 3403 — 3 CR (3 LEC) IRREGULAR
.NET APPLICATION PROGRAMMING

Prerequisite: CS 1024 Foundations of Programming II

Prerequisite or corequisite: CS 2033 Web Systems

Introduces the Microsoft .NET framework and the numerous tools and technologies for developing stand-alone Windows applications, web applications, and distributed network applications.

CS 3503 — 3 CR (3 LEC) FALL
IT SECURITY

Prerequisite: CS 1033 Foundations of Operating Systems I and CS 1063 Foundations of Operating Systems II

Begins with an examination of the business continuity mandate for securing IT assets, and moves through physical versus logical security, how to categorize and analyze threats using organizational security policies; integrating multi-disciplinary skills to analyze risks, and implementation of security measures. These security measures include authentication, authorization, cryptography, perimeter security, as well as methods for securing applications and various functional servers.

CS 3513 — 3 CR (3 LEC) IRREGULAR
APPLIED CRYPTOGRAPHY

Prerequisites: CS 1024 Foundations of Programming II and CS 2053 Foundations of CyberSecurity

Examines the theoretical foundation and practical applications of a cryptographic system. Topics introduced are protocol generation and design, the symmetric and asymmetric cryptographic approaches, hash ciphers and functions and challenges to formulate in an adversarial environment.

CS 3523 — 3 CR (3 LEC) IRREGULAR
COMPUTER FORENSICS

Prerequisites: CS 2053 Foundations of CyberSecurity

Examines techniques and procedures to obtain evidence from a computing device, network messages, and logs. Topics include the preservation of data and evidentiary chain, legal aspects of the search and seizure of computers and related equipment/information.

CS 3533 — 3 CR (3 LEC) IRREGULAR
ASSEMBLY LANGUAGE PROGRAMMING

Prerequisite: CS 2003 Data Structures

Introduction to machine language and assembly language programming. Concepts discussed include techniques for encoding data as numbers, instruction set design, and the industry standard numbering schemes. Requires students to practice assembly language programming techniques and develop solutions with assembler programming.

CS 3543 — 3 CR (3 LEC) IRREGULAR
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.

CS 4003 — 3 CR (3 LEC) FALL, SPRING
SOFTWARE ENGINEERING

Prerequisite: CS 2003 Data Structures and consent of department head

Examines modern techniques and methodologies needed to plan, analyze, design and implement a computer based system.

CS 4023 — 3 CR (3 LEC) FALL, SPRING
SENIOR CAPSTONE

Prerequisites: CS 4003 Software Engineering and consent of department head

Students will work in teams to complete a significant software development project using an incremental agile software development approach. The project will include planning, design, development, testing, and implementation and culminate with a team presentation.

CS 4033 — 3 CR (3 LEC) FALL
ETHICS AND PROFESSIONAL PRACTICE

Prerequisite: CS 2003 Data Structures

Students are exposed to the larger societal context of computing to develop an understanding of the relevant social, ethical, legal, and professional issues inherent in the discipline of computing.

CS 4043 **3 CR (3 LEC) SPRING**
FORMAL LANGUAGES

Prerequisites: CS 2003 Data Structures and MATH 2443 Discrete Mathematics I

Introduces fundamental concepts in automata theory and formal languages. Topics include finite automata, pushdown automata, regular expressions, grammars, formal languages, context-free languages, Turing machines, and Church's thesis. The course also presents applications of these models to algorithms, complexity theory, and compiler design.

CS 4103 **3 CR (3 LEC) IRREGULAR**
MOBILE APPLICATION DEVELOPMENT

Prerequisite: CS 2003 Data Structures

Examines problem solving and application development in the context of a mobile computing environment. Students will create and deploy applications usable by modern cell phones. The special requirements inherent in mobile environments will be addressed as well as methods for developing commercially viable applications.

CS 4133 **3 CR (3 LEC) IRREGULAR**
CLOUD APPLICATIONS DEVELOPMENT

Prerequisite: CS 2033 Web Systems

Examines cloud architecture, application development, and the technologies used to create and deliver them. Students will also learn cloud application development and design using existing cloud development tools.

CS 4143 **3 CR (3 LEC) IRREGULAR**
DEEP LEARNING

Prerequisite: CS 3113 Artificial Intelligence or CS 4333 Machine Learning

Examines deep neural networks and their applications to the fields of artificial intelligence, natural language processing, machine learning, and computer graphics and vision.

CS 4153 **3 CR (3 LEC) IRREGULAR**
ADVANCED ALGORITHMS

Prerequisite: CS 3103 Algorithms

Explores the topics of advanced algorithm design with a special focus on efficiency, analysis, and implementation

CS 4213 **3 CR (3 LEC) IRREGULAR**
IDENTITY MANAGEMENT

Prerequisites: CS 2053 Foundations of CyberSecurity and CS 1044 Foundations of Networking

Introduces the skills and knowledge to analyze, design, install and configure identity management/directory service systems in a network environment.

CS 4223 **3 CR (3 LEC) IRREGULAR**
COMPUTING TO SCALE

Prerequisite: CS 3223 Routing and Switching

Introduction to economies of scale related to computing infrastructure. Network design techniques such as Software as a Service (SaaS), Platform as a Service (PaaS), Infrastructure as a Service (IaaS) and Virtual Desktop Infrastructure (VDI) will be introduced along with hands-on experiences with current tools utilized to create these structures. On-site and off-site data center design techniques will also be examined.

CS 4233 **3 CR (3 LEC) IRREGULAR**
ADVANCED ROUTING

Prerequisite: CS 3223 Advanced Routing

Provides the necessary knowledge and skills to plan, implement, and troubleshoot scalable routed networks. Routing of IPv4 and IPv6 using interior gateway protocols, EIGRP and OSPF, within enterprise networks will be addressed. The routing between autonomous systems with BGP will also be examined.

CS 4323 **3 CR (3 LEC) IRREGULAR**
DATA ANALYTICS

Prerequisite: CS 1303 Introduction to Data Science or CS 2003 Data Structures

Introduction to data science and statistical methods with emphasis on large-scale advanced data analysis.

CS 4333 **3 CR (3 LEC) IRREGULAR**
MACHINE LEARNING

Prerequisite: CS 1303 Introduction to Data Science or CS 2003 Data Structures

Explores the topics of machine learning and statistical pattern recognition. Supervised, unsupervised and reinforcement machine learning algorithms are introduced. Modern applications of machine learning are reviewed.

CS 4343 **3 CR (3 LEC) IRREGULAR**
NATURAL LANGUAGE PROCESSING

Prerequisite: CS 1303 Introduction to Data Science or CS 2003 Data Structures

Comprehensive overview of the field of Natural Language Processing (NLP) that is at the core of much technological advancement, including search engines, machine translation, customer service, medicine, etc.

CS 4363 **3 CR (3 LEC) IRREGULAR**
INTERNET OF THINGS DEVELOPMENT

Prerequisite: CS 2003 Data Structures

Introduces the design and development of applications and systems for Internet of Things (IoT) devices. Topics include IoT technology and devices, communication, data storage, application development, machine learning for IoT data, and distributed systems for supporting IoT devices.

CS 4373 **3 CR (3 LEC) IRREGULAR**
INFORMATION RETRIEVAL

Prerequisite: CS 2003 Data Structures

Introduces fundamental concepts in modern information retrieval systems and search engines. Topics include information retrieval algorithms, retrieval models, evaluation, text indexing, document clustering and classification, ranking, machine learning algorithms, and current research in the field of information retrieval.

CS 4503 **3 CR (3 LEC) IRREGULAR**
CYBEROPS

Prerequisites: CS 2053 Foundations of CyberSecurity and CS 1044 Foundations of Networking

Analyzes security threats to operations and the methods used to secure cyber operations against these threats. Topics include securing device access; using authentication, authorization, and accounting systems; implementing firewall technologies; implementing intrusion prevention systems; the use of cryptographic systems; implementing and securing access; and the continuing management requirements of maintaining a secure network.

CS 4523 **3 CR (3 LEC) IRREGULAR**
CYBER CRIMES

Prerequisite: CS 2053 Foundations of CyberSecurity

Introduction to the economic crimes facilitated and propagated via the use of the Internet and other public and private communication networks. Compromising techniques such as fraud, denial of service activities, spoofing, social engineering and email scams such as phishing will be introduced along with foundational network forensics and investigative techniques.

CS 4903 3 CR (3 LEC) IRREGULAR
SPECIAL TOPICS IN COMPUTER SCIENCE

Prerequisite: junior standing and consent of instructor.

Examines emerging and advanced technologies in computing that are not currently offered in the curriculum. Offered periodically, based on need. May be taken for a total of nine hours when topics differ.

CS 4913 3 CR (INT/PRAC) FALL, SPRING, SUMMER
INFORMATION TECHNOLOGY INTERNSHIP

Prerequisite: information technology major with junior standing and consent of department head

An intensive field experience that draws from the areas of exposure during the baccalaureate degree program in information technology. The internship program includes both cooperative, educational experiences and extended job shadowing. May be repeated for a total of six hours.

CS 4933 3 CR (3 LEC) IRREGULAR
COMPETITIVE PROGRAMMING

Prerequisite: consent of instructor.

Introduces algorithms and concepts required to solve complex programming challenges in competitive environments.

CS 498V 1-3 CR (VARIABLE) IRREGULAR
UNDERGRADUATE RESEARCH IN COMPUTER SCIENCE

Prerequisites: junior standing and consent of department head

Practical exposure to hypothesis testing, experimental design, data collection and analysis. Students will present their findings at the end of the term. May be repeated for a total of six hours

CS 499V 1-3 CR (IND STU) IRREGULAR
INFORMATION TECHNOLOGY INDEPENDENT STUDY

Prerequisite: junior standing and consent of instructor

Student is allowed to work individually or within an acceptable team setting to study and/or design information technology issues and techniques. Can be used to offer a variety of topics that enhance the student's educational pursuits in areas not currently covered in the curriculum. Open only to students with demonstrated ability to perform research and adequately document their findings. May be repeated for a total of six hours.

DHYG Dental Hygiene

Enrollment in courses with the DHYG prefix requires admission to the dental hygiene program.

DHYG 2111 1 CR (1 LEC) FALL
DENTAL ANATOMY AND OCCLUSION

Prerequisite: admission to the dental hygiene program

Corequisites: DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, DHYG 3103 Pre-Clinical Dental Hygiene Theory, and DHYG 3412 Oral Embryology and Histology

The study of formation of primary and permanent dentition, including information on crown and root anatomy. All primary and permanent teeth, including tooth form, function, and relationship to oral health; calcification, eruption and exfoliation patterns; ideal static occlusion, dental terminology, and tooth annotation systems. Includes identification and annotation of teeth. Occlusion and malocclusion are studied.

DHYG 2313 3 CR (2 LEC, 3 LAB) FALL
RADIOLOGY

Prerequisites: admission to the dental hygiene program and CHEM 1303 Chemical Principles

Corequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, DHYG 3103 Pre-Clinical Dental Hygiene Theory, and DHYG 3412 Oral Embryology and Histology

Theory and clinical practice of oral radiographic methods. Topics include properties and uses of x-radiation, radiation hygiene, exposing and developing radiographs (intraoral, extra-oral, panoramic, and digital), mounting films, identification of radiographic anatomical landmarks, and radiographic interpretation.

DHYG 2432 2 CR (2 LEC) FALL
HEAD AND NECK ANATOMY

Prerequisites: admission to the dental hygiene program and BIOL 2203/2201 Human Anatomy/Laboratory

Corequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 3102 Pre-Clinical Dental Hygiene, DHYG 3103 Pre-Clinical Dental Hygiene Theory, and DHYG 3412 Oral Embryology and Histology

The study of the bones, muscles, nerves, vascular supply, and specialized tissues of the head and neck. Topics include the skeletal, muscular, nervous, circulatory, and digestive systems with an emphasis on correlating content to dental hygiene interventions.

DHYG 3102 2 CR (8 LAB) FALL
PRE-CLINICAL DENTAL HYGIENE

Prerequisite: admission to the dental hygiene program

Corequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3103 Pre-Clinical Dental Hygiene Theory, and DHYG 3412 Oral Embryology and Histology

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) FALL
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

Theoretical instruction of basic dental hygiene procedures. Topics include dental equipment operation/maintenance, infection control/aseptic techniques/safety practices, current principles of the instrumentation, and basic data collection and procedures performed by the dental hygienist. Applies theory at the laboratory/clinical level in DHYG 3102.

DHYG 3113 3 CR (3 LEC) SPRING
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 Theory, 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 fluoride therapy. Application of theory in DHYG 3213.

DHYG 3212 — 2 CR (2 LEC) SPRING
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 Theory, and DHYG 3412 Oral Embryology and Histology

Corequisites: DHYG 3113 Clinic I Theory, 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 3213 — 3 CR (12 LAB) SPRING
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 Theory, and DHYG 3412 Oral Embryology and Histology

Corequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

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) FALL
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 Theory

Study of oral embryology and histology, including the application of pathophysiology to specific organ systems, extensively of the mouth. Emphasis on the identification and management of selected oral conditions.

DHYG 3443 — 3 CR (3 LEC) SPRING
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 Theory, and DHYG 3412 Oral Embryology and Histology

Corequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, and DHYG 3453 General and Oral Pathology

Study of the physiologic effects of medications with an emphasis on commonly prescribed medications. The composition, dosage, therapeutic action, use, and effects of drugs related to clinical dentistry and dental hygiene are studied. Emergency treatment for drug hypersensitivity is included.

DHYG 3453 — 3 CR (3 LEC) SPRING
GENERAL AND ORAL PATHOLOGY

Prerequisites: BIOL 2213/2211 Human Physiology/Laboratory, BIOL 2503/2501 General Microbiology/Laboratory, 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 Theory, and DHYG 3412 Oral Embryology and Histology

Corequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, and DHYG 3443 Pharmacology

Concepts of general pathology including inflammation, immunology, microorganisms, neoplasm, and hormonal influence. Emphasis on diseases and their manifestations in the oral cavity, and on the recognition of abnormal oral conditions, as well as systemic disorders that require modifications in patient management.

DHYG 4122 — 2 CR (2 LEC) FALL
CLINIC II THEORY

Prerequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

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

Advanced clinical theory of patient care and management. Includes advanced periodontal instrumentation techniques, intraoral media equipment, dental implants, air polishing, use of fluorides, and the assessment and treatment of patients with special needs.

DHYG 4132 — 2 CR (2 LEC) SPRING
CLINIC III THEORY

Prerequisites: DHYG 4122 Clinic II Theory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4142 Advanced Dental Hygiene Theory 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.

DHYG 4142 **2 CR (2 LEC) FALL**
ADVANCED DENTAL HYGIENE THEORY FOR SPECIAL NEEDS PATIENTS

Prerequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology, or current dental hygiene licensure

Corequisites: DHYG 4122 Clinic II Theory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4311 Periodontology II, DHYG 4372 Dental Nutrition, DHYG 4463 Dental Materials, and DHYG 4512 Local Anesthesia and Nitrous Oxide

Study and application of advanced clinical concepts. Preparation for the dental hygienist to implement dental health care services in a variety of public health settings for children and adults. Legal issues in dealing with patients with special needs, institutional access, and liability are addressed.

DHYG 4224 **4 CR (16 LAB) FALL**
DENTAL HYGIENE CLINIC II

Prerequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

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

Clinical treatment of patients with emphasis placed on treating periodontally involved patients. Clinical application and evaluation of topics presented in DHYG 4122 and DHYG 4463.

DHYG 4234 **4 CR (16 LAB) SPRING**
DENTAL HYGIENE CLINIC III

Prerequisites: DHYG 4122 Clinic II Theory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4142 Advanced Dental Hygiene Theory 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 4132 Clinic III Theory, DHYG 4522 Ethics and Practice Management, DHYG 4533 Community Dentistry and Dental Health Education, and DHYG 4542 Public Health Dentistry

Focuses on the competence in clinical skills required in providing dental hygiene care. Emphasis on the provision of competent and quality patient care. Students will rotate to local sites in the area to obtain additional clinical experiences with special needs and periodontal patients.

DHYG 4311 **1 CR (1 LEC) FALL**
PERIODONTOLOGY II

Prerequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

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

Continuation of DHYG 3212, including the clinical procedures associated with the surgical phase of periodontal therapy, as well as the use of adjunctive chemotherapeutic treatments. Emphasis on the evaluation of periodontal treatment as well as the maintenance phase and the relationship between periodontics and other dentistry disciplines.

DHYG 4372 **2 CR (2 LEC) FALL**
DENTAL NUTRITION

Prerequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

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

Provides dental healthcare professionals with information in many aspects of nutrition. The biochemistry of nutrients, their metabolism, current concepts in nutrition throughout the life cycle are considered.

DHYG 4463 **3 CR (2 LEC, 3 LAB) FALL**
DENTAL MATERIALS

Prerequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

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

Designed to familiarize the student with commonly used materials in dentistry. Content on the theory and manipulation of dental materials including material composition, and physical and chemical properties. The theory and technique of finishing and polishing amalgam and composite restorations is presented.

DHYG 4512 **2 CR (1 LEC, 4 LAB) FALL**
LOCAL ANESTHESIA AND NITROUS OXIDE

Prerequisites: DHYG 3113 Clinic I Theory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

Corequisites: DHYG 4122 Clinic II Theory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4142 Advanced Dental Hygiene Theory for Special Needs Patients, DHYG 4311 Periodontology II, DHYG 4372 Dental Nutrition, and DHYG 4463 Dental Materials

Anatomy, physiology, pharmacology, patient assessment, indications and contraindications, selection of agents, injection techniques, complications, emergency management and legal and ethical considerations are covered. Classroom and laboratory sessions are included to develop competency in the techniques of administering local anesthetics and nitrous oxide inhalation sedation.

DHYG 4522 **2 CR (2 LEC) SPRING**
ETHICS AND PRACTICE MANAGEMENT

Prerequisites: DHYG 4122 Clinic II Theory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4142 Advanced Dental Hygiene Theory 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 4132 Clinic III Theory, DHYG 4234 Dental Hygiene Clinic III, DHYG 4533 Community Dentistry

and Dental Health Education, and DHYG 4542 Public Health Dentistry

Focus on professionalism, ethical theory and philosophy, ethical principles and values, ethical decision-making in dental hygiene and dentistry, state practice acts, and risk management.

DHYG 4533 **3 CR (2 LEC, 3 LAB) SPRING**
COMMUNITY DENTISTRY AND DENTAL HEALTH EDUCATION

Prerequisites: DHYG 4122 Clinic II Theory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4142 Advanced Dental Hygiene Theory 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 4132 Clinic III Theory, DHYG 4234 Dental Hygiene Clinic III, DHYG 4522 Ethics and Practice Management, and DHYG 4542 Public Health Dentistry

Emphasizes the hygienist's role in dental health education and public health. Examination of methods to assess the oral health status of communities including the theory and application regarding program assessment, planning, implementation, and evaluation.

DHYG 4542 **2 CR (2 LEC) SPRING**
PUBLIC HEALTH DENTISTRY

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

Corequisites: DHYG 4132 Clinic III Theory, DHYG 4234 Dental Hygiene Clinic III, DHYG 4522 Ethics and Practice Management, and DHYG 4533 Community Dentistry and Dental Health Education

Prepares the dental hygienist to provide services in the area of public health dentistry. Legal issues, coalition development, and integration of oral health into general and public health settings.

DIES Diesel

DIES 2154 **4 CR (2 LEC, 4 LAB) FALL**
INTRODUCTION TO DIESEL SYSTEMS

Prerequisite: ATDI 1234 Theory and Maintenance

Functions of diesel engines and diesel systems are introduced. Experience is gained in working with engine controls, fuel management, emissions control systems, engine components, and operation.

DVST Diversity Studies

DVST 2003 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO DIVERSITY STUDIES

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

An introduction to the study of diversity using a multidisciplinary approach. Concepts and theories from anthropology, comparative literature, history, psychology, and sociology will be used to develop and understand the social diversity of contemporary United States. Elements of diversity covered in the course include race, ethnicity, religion, gender, sexuality, ability, age, class, language, legal status, xenophobia, immigration, nationalism, and intersectionality.

ECD Early Childhood Development

ECD 1003 **3 CR (3 LEC) FALL**
FOUNDATIONS OF EARLY CHILDHOOD EDUCATION

Corequisites: ECED 1401 Early Childhood Field Experience I and ECD 1103 Child Growth and Development

Provides the student with an understanding of the historical roles of families in a child's development. The student will become familiar with the theories supporting early childhood education and learn how to develop an effective program designed uniquely for children ages birth to eight. The students will also obtain knowledge of state and federal laws pertaining to the care and education of young children.

ECD 1103 **3 CR (3 LEC) FALL**
CHILD GROWTH AND DEVELOPMENT

Corequisites: ECED 1401 Early Childhood Field Experience I and ECD 1003 Foundations of Early Childhood Education

Students will become familiar with environmental and hereditary effects on the cognitive, affective, psychomotor, and sociolinguistic development of typically and atypically developing children from conception through age eight in the diverse cultural backgrounds within and outside of the United States. The students will be introduced to methods used to observe and evaluate children's development and recognize possible delays in development. Practical application of theory is provided through a variety of hands-on experiences and observations. There will be five hours of observation to be completed in this class as assigned by the instructor. Child Development 5-8 will be embedded in this class.

ECED Early Childhood Education

ECED 1401 **1 CR (1 LAB) FALL**
EARLY CHILDHOOD FIELD EXPERIENCE I

Corequisites: ECD 1003 Foundations of Early Childhood Education and ECD 1103 Child Growth and Development.

Observing, recording, and interpreting human growth and development within the early childhood environment from prenatal period through age five with emphasis on observation of physical, social, and emotional development in connection with ECD 1003 and ECD 1103.

ECED 1411 **1 CR (3 LAB) FALL**
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 2093 **3 CR (3 LEC) SPRING**
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.

ECON Economics

ECON 2803 **3 CR (3 LEC) FALL, SPRING**
PRINCIPLES OF MACROECONOMICS

Prerequisite: MATH 1303 College Mathematics and Quantitative Literacy or higher MATH course

Introduction to macroeconomic theory, the study of national and world economies. Examines the interaction of households, businesses, and governments (domestic and foreign) in determining economic output and overall standard of living. Explores how inflation, unemployment, investment, interest rates, trade, exchange rates, taxes, national debt, and fiscal and monetary policy affect society. Emphasizes students' economic roles as consumers, workers, investors, and citizens. (ACTS: ECON 2103)

ECON 2803H **3 CR (3 LEC) IRREGULAR**
PRINCIPLES OF MACROECONOMICS (HONORS)

Prerequisites: MATH 1303 College Mathematics and Quantitative Literacy or higher MATH course and admission to the Miles Friedman Honors program or consent of instructor

Introduction to macroeconomic theory, the study of national and world economies. Examines the interaction of households, businesses, and governments (domestic and foreign) in determining economic output and overall standard of living. Explores how inflation, unemployment, investment, interest rates, trade, exchange rates, taxes, national debt and fiscal and monetary policy affect society. Emphasizes students' economic roles as consumers, workers, investors, and citizens.

ECON 2813 **3 CR (3 LEC) FALL, SPRING**
PRINCIPLES OF MICROECONOMICS

Prerequisite: MATH 1303 College Mathematics and Quantitative Literacy or higher MATH course

Introduction to microeconomic theory, the study of consumer and firm behavior. Examines the interaction of demand and supply in determining market price and output. Explores preferences, utility, consumer choice, elasticities, production, costs, and efficiency. Emphasizes manager decision making in the presence of various market structures including perfect competition, monopolistic competition, oligopoly, and monopoly. Overviews economic rationale of anti-trust policy. (ACTS: ECON 2203)

ECON 3313 **3 CR (3 LEC) SPRING**
MICROECONOMIC ANALYSIS

Prerequisites: ECON 2813 Principles of Microeconomics, MATH 2403 Survey of Calculus or higher MATH, and admission to the business program, 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) SPRING**
MACROECONOMIC ANALYSIS

Prerequisite: ECON 2803 Principles of Macroeconomics, MATH 2403 Survey of Calculus or higher MATH and admission to the business program, 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) IRREGULAR**
LABOR ECONOMICS

Prerequisites: ECON 2803 Principles of Macroeconomics and 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) FALL**
INTERNATIONAL ECONOMICS

Prerequisites: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics, and admission to the business program, 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) IRREGULAR**
NATURAL RESOURCE ECONOMICS

Prerequisite: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics and admission to the business program, 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) IRREGULAR**
PUBLIC EXPENDITURES AND TAXATION

Prerequisites: ECON 2803 Principles of Macroeconomics and 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) IRREGULAR**
URBAN ECONOMICS

Prerequisite: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics and admission to the business program, 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) FALL**
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 business program, 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) IRREGULAR
INDEPENDENT STUDY IN ECONOMICS

Prerequisites: admission to the business program 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) IRREGULAR
SPECIAL TOPICS IN ECONOMICS

Prerequisite: admission to the business program 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) SPRING
LITERACY AND LANGUAGE ARTS FOR EARLY CHILDHOOD

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

A study of the acquisition of language and how to provide children birth through pre-kindergarten, including children with special needs, with language rich environments by incorporating the four areas of language: speaking, listening, writing, and reading. Addresses requirements as mandated by state early childhood regulations.

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

Prerequisite: ECTC 2903 Future Perspectives in Early Childhood (for early childhood eduction 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 by state early childhood regulations.

ECTC 2503 3 CR (3 LEC) FALL
CHILD GUIDANCE

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

Students will learn to relate principles of child development to appropriate methods of guiding children's behavior for children birth through pre-kindergarten, including children with special needs. Techniques for managing groups of children in the various childcare setting are practiced. Five hours of pre-school observation required. Addresses requirements as mandated by state early childhood regulations.

ECTC 2603 3 CR (3 LAB) SPRING
PRACTICUM

Prerequisites: ECED 1411 Early Childhood Field Experience II, ECTC 2403 Math and Science for Early Childhood, ECTC 2503 Child Guidance, and ECTC 2703 Preschool Curriculum (B - Pre-K)

Prerequisite or corequisite: ECTC 2303 Literacy and Language Arts for Early Childhood

Students must be employed or volunteer in a licensed childcare facility to apply the knowledge acquired and skills learned in previous coursework. Observation of the student's work and evaluation of student skills are conducted by instructors following the NAEYC Associate Standards. Students must demonstrate competency in all areas observed and complete a minimum number of clock hours, determined by the institution, of observation and work experience with children birth to five. An emphasis will be on the observation of physical, cognitive, language, social, and emotional development in connection with previous courses. This class is taken in the student's final semester.

ECTC 2703 3 CR (3 LEC) FALL
PRESCHOOL CURRICULUM (BIRTH - PRE-K)

Prerequisites: ECTC 2903 Future Perspectives in Early Childhood and ECTC 2803 Infant Toddler Curriculum (for early childhood eduction majors), or admission into the educator preparation program (for elementary education majors)

Corequisite: ECED 1411 Early Childhood Field Experience II

Child development research which focuses on planning and implementing enriching environments with appropriate interactions and activities for young children ages three through five, including those with special needs, to maximize physical, cognitive, communication, creative, language/literacy, and social/emotional growth and development. Addresses requirements as mandated by state early childhood regulations.

ECTC 2803 3 CR (3 LEC) SPRING
INFANT TODDLER CURRICULUM

Prerequisites: ECD 1003 Foundations of Early Childhood Education, ECED 1401 Early Childhood Field Experience I and ECD 1103 Child Growth and Development

Focuses on planning and implementing environments with appropriate interactions and activities for young children from birth through age two, including those with special needs, to maximize physical, cognitive, communication, creative, language/literacy, and social/emotional growth and development. Five hours of observation in the infant toddler classroom are required.

ECTC 2903 3 CR (3 LEC) SPRING
FUTURE PERSPECTIVES IN EARLY CHILDHOOD

Prerequisites: ECD 1003 Foundations of Early Childhood Education, ECED 1401 Early Childhood Field Experience I and ECD 1103 Child Growth and Development

Students will develop a knowledge base of the NAEYC Code of Conduct through analyzing case studies designed to demonstrate competencies compatible with current research and practice. Students will also begin developing a professional portfolio to demonstrate competencies in the skills relating to the NAEYC standards.

EDUC Education

EDUC 2752 **2 CR (2 LEC) FALL, SPRING**
INTRODUCTION TO EDUCATION

Provides an overview of the teaching profession through philosophical, historical, social, and political lenses and to provide an opportunity for prospective teacher candidates to assess their desire, commitment level, and dispositions as prospective teachers.

EDUC 2783 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO EDUCATIONAL FOUNDATIONS

Provides a historical and social perspective of education as well as an overview of the teaching profession in areas such as ethics, professionalism, policy, school law, school systems, individualized learning, and discipline specific pedagogy.

EDUC 3002 **2 CR (2 LEC) FALL, SPRING**
INTRODUCTION TO EDUCATIONAL TECHNOLOGY

Prerequisite or corequisite: EDUC 2752 Introduction to Education

Incorporation and pedagogical practice of technology into the instructional situations.

EDUC 3013 **3 CR (3 LEC) FALL, SPRING**
HUMAN DEVELOPMENT AND LEARNING

Prerequisite: admission to the educator preparation program

Prerequisite or corequisite: EDUC 3221 Practicum I or ELML 3102 Foundations of Clinical Practice

A study of the application of practical theories and principles of development and learning to instructional planning, teaching, management, and assessment.

EDUC 3221 **1 CR (1 LEC, 4 LAB) FALL, SPRING**
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.

EDUC 3401 **1 CR (1 LEC) FALL, SPRING**
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.

EDUC 3612 **2 CR (2 LEC) FALL, SPRING**
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.

EDUC 400V **1-3 CR (IND STU) IRREGULAR**
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.

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

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: ELML 4102 Practicum II, ELML 4303 STEAM Curriculum, Instruction, and Assessment, and READ 3903 Disciplinary Literacy

Develop an awareness of the nature and purpose for social studies education in the elementary and middle school.

EDUC 4211 **1 CR (1 LEC, 4 LAB) FALL, SPRING**
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.

EDUC 4222 **2 CR (2 LEC) FALL, SPRING**
ASSESSMENT

Prerequisite: admission to the educator preparation program

Focuses on the decision-making skills required in developing authentic assessments appropriate for classroom use. The strengths and weaknesses of classroom evaluation procedures, both formal and informal, are examined. Candidates develop tests and projects designed for pupils with different learning styles. Rubrics are created for grading all assignments. Candidates develop fundamental statistical concepts and interpret both norm-referenced and criterion-referenced test results. A computerized gradebook program is examined.

EDUC 4401 **1 CR (1 LEC) FALL, SPRING**
INTEGRATING HEALTH AND PHYSICAL EDUCATION

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: ELML 3013 Educational Psychology, ELML 3102 Foundations of Clinical Practice, ELML 3203 Introduction to Assessment, ELML 3302 Learning Environments, and READ 3303 Foundations of Teaching Reading and Writing

Best practices for integrating health and physical education in educational settings.

EDUC 4802 **2 CR (2 LEC) FALL, SPRING**
SEMINAR IN EDUCATION

Prerequisite: admission to student internship

Corequisite: EDUC 490A Internship

Emphasizes teacher leadership, refinement of teaching skills, collaboration, and marketability plans.

EDUC 490A **10 CR (34 LAB) FALL, SPRING**
INTERNSHIP

Prerequisite: admission to student internship

Corequisite: EDUC 4802 Seminar in Education

An intensive field experience that is the culmination of a teacher candidate's bachelor degree program in education.

EET Electrical Engineering Technology

EET 3303 **3 CR (3 LEC) FALL**
WIRELESS SYSTEMS

Prerequisite: ELEC 1353 Electrical Circuits and Components and ELEC 2753 Communication Systems

Analysis of various wireless system formats and the concepts associated in their implementation. Multiple access schemes such as TDMA, FDMA and CDMA are covered, as well as cell capacity, link budgets, handoff, interference, multi-path, system capacity, and path loss.

EET 3453 **3 CR (2 LEC, 2 LAB) FALL**
MICROPROCESSOR APPLICATIONS

Prerequisite: ELEC 1243 Introduction to Programming or ITC 1374 Programming for Engineers

Application of microprocessors in various environments such as laboratory equipment, controller area networks, and data acquisition.

EET 3703 **3 CR (3 LEC) IRREGULAR**
ELECTROMAGNETICS

Prerequisites: MATH 2403 Survey of Calculus and PHYS 2823/2831 College Physics II/Laboratory

Analysis of transmission lines with sinusoidal and transient excitation. Other topics include: development and use of vector analysis, electrostatics, magnetostatics, and impedance matching.

EET 3743 **3 CR (2 LEC, 2 LAB) FALL**
DISCRETE ELECTRONICS

Prerequisites: ELEC 1353 Electrical Circuits and Components and ELEC 1393 Solid State

Application of discrete electronic devices and integrated circuits (ICs) in various environments such as laboratory equipment, motion equipment, and data acquisition.

EET 3953 **3 CR (2 LEC, 2 LAB) SPRING**
POWER ELECTRONICS

Prerequisite: EET 3743 Discrete Electronics

Analysis of modern electronics and integrated circuits (ICs) in power generation and transmission, motor drives and controls, and safety issues.

EET 4003 **3 CR (2 LEC, 2 LAB) FALL**
ELECTRONIC SYSTEM DESIGN

Prerequisite: EET 3953 Power Electronics

The synthesis of modern electronics, integrated circuits (ICs), and software into usable products.

EET 4113 **3 CR (2 LEC, 2 LAB) SPRING**
SENIOR DESIGN

Prerequisites: EET 3743 Discrete Electronics and PRFS 4133 Project Management

Examines the principles of engineering design processes. Students will design small electronic systems to specifications. A preliminary paper design followed by a hardware or software prototype is completed. A functioning design is demonstrated and final presentation given.

EET 4503 **3 CR (3 LEC) IRREGULAR**
VIRTUAL INSTRUMENTATION

Prerequisite: ELEC 1243 Introduction to Programming or ITC 1374 Programming for Engineers

Introduction to virtual instrumentation using LabView. Topics include data acquisition, control, LabView programming, and GUI design.

EET 490V **1-4 CR (VARIABLE) FALL, SPRING**
SPECIAL TOPICS IN ELECTRICAL ENGINEERING TECHNOLOGY

Prerequisite: consent of instructor

Current topics in electrical engineering technology are explored. Topics are selected by faculty members according to their areas of expertise and student interest. May be repeated twice when topics differ for a maximum of eight credit hours.

EET 495V **1-3 CR (VARIABLE) FALL, SPRING**
INTERNSHIP IN ELECTRICAL ENGINEERING TECHNOLOGY

Prerequisite: consent of instructor

Pre-approved work experience in an electrical engineering technology position in industry or the public sector. The student will be supervised by a faculty member and a liaison from the field experience site. Career development strategies will be emphasized. May be repeated for a maximum of three credit hours.

ELEC Electronics

ELEC 1233 **3 CR (2 LEC, 2 LAB) FALL**
FUNDAMENTALS OF ELECTRICITY

An overall study of the fundamental principles of AC and DC, Ohm's law, and the power equation. Series, parallel, series-parallel circuits, and DC meters are introduced, and a study is made of the practical applications of mathematics related to electronics and electricity.

ELEC 1242 **2 CR (1 LEC, 2 LAB) FALL**
INTRODUCTION TO ELECTRONICS TECHNOLOGY

Introduces the basic terms, powers of ten usages, component identification, and fundamental circuit building required to be successful in the pursuit of electronics technology.

ELEC 1243 **3 CR (2 LEC, 2 LAB) FALL**
INTRODUCTION TO PROGRAMMING

Introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem-solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files, use top-down algorithm design, and implement algorithmic solutions in a programming language.

ELEC 1263 **3 CR (2 LEC, 2 LAB) SPRING**
INDUSTRIAL ELECTRICITY

Prerequisite: ELEC 1233 Fundamentals of Electricity

Fundamentals of motors and motor control. Includes switches, relays, transformers, three-phase power systems, DC motors, single-phase motors, three-phase motors, overload protection, and motor controllers. The National Electrical Code standards for all circuits are emphasized.

ELEC 1353 **3 CR (2 LEC, 2 LAB) SPRING**
ELECTRICAL CIRCUITS AND COMPONENTS

Prerequisite: ELEC 1233 Fundamentals of Electricity

Details how individual components react to AC and DC. Includes the study of inductors, transformers, capacitors, R-C circuits, R-L circuits, R-L-C circuits, time constants, series-parallel resonant circuits, and filters.

ELEC 1393 3 CR (2 LEC, 2 LAB) SPRING
SOLID STATE

Prerequisite: ELEC 1233 Fundamentals of Electricity

Solid-state circuitry, including characteristics of active and passive circuit components. Both DC and AC signal approximations are analyzed to determine correct circuit operation and common failure modes. Rectifier, regulator, and amplifier circuits plus Bipolar, J-FET, MOSFET, SCR, DIAC, and TRIAC circuits are included.

ELEC 1863 3 CR (2 LEC, 2 LAB) FALL
DIGITAL FUNDAMENTALS

Prerequisite: MATH 0233 Beginning Algebra or MATH 0304 Beginning and Intermediate Algebra or higher level mathematics course, or exemption by placement

An introduction and development of the basic concepts related to the operation of a typical microprocessor will be introduced and developed to include number systems, elementary digital circuits, and the internal structure of the INTEL 8088 microprocessor. The student will gain experience in designing and debugging computer programs at the machine level.

ELEC 2243 3 CR (2 LEC, 2 LAB) FALL
APPLIED INDUSTRIAL ELECTRICITY AND SAFETY

Prerequisite: ELEC 1263 Industrial Electricity

Introduction to industrial control circuits such as multiple push-button, timing relays and sequence control, switching and sensing devices including flow and limit switches and Hall-effect sensors, starting and braking methods, variable speed drives, machinery installation, troubleshooting/reading of large electrical schematics and safety considerations while working with industrial electrical equipment.

ELEC 2413 3 CR (2 LEC, 2 LAB) FALL
ROBOT OPERATIONS AND MAINTENANCE

Teaches the basic operation and programing of a robot using a teach pendant as well as the robotic cell hazards, health and safety, and maintenance requirements.

ELEC 2423 3 CR (2 LEC, 2 LAB) SPRING
ROBOT PROGRAMMING II

Prerequisite: ELEC 2413 Robot Operations and Maintenance

Provides instruction in high level programming features and techniques. Includes off-line programming software for simulating robot layout and reach capabilities and robot program simulation.

ELEC 2513 3 CR (2 LEC, 2 LAB) FALL
PLC APPLICATIONS

Prerequisite: ELEC 1263 Industrial Electricity

Provides the engineer or technician with an overview of the selection, programming, operation, and capabilities/ limitations of programmable logic controllers.

ELEC 2733 3 CR (2 LEC, 2 LAB) FALL
ADVANCED ELECTRONIC CIRCUITS

Prerequisite: ELEC 1393 Solid State

Covers advanced electronic circuit analysis and trouble-shooting, and positive and negative feedback circuits.

ELEC 2753 3 CR (2 LEC, 2 LAB) SPRING
COMMUNICATION SYSTEMS

Prerequisite: ELEC 1242 Introduction to Electronics Technology

Prerequisite or corequisite: ELEC 2733 Advanced Electronic Circuits

Covers AM and FM receiver theory, alignment and troubleshooting. Details theory and practical application of troubleshooting techniques as applied to superheterodyne receivers, audio amplifiers, and stereo systems.

ELEC 290V 1-5 CR (VARIABLE) IRREGULAR
ELECTRONICS: SPECIAL TOPICS

Prerequisite: consent of department head

Designed to give special instruction for new and emerging topics in electronics that are not otherwise covered in the curriculum. Topics in these emerging technologies offered periodically based on recognized needs of the field and availability of instruction. May be repeated for a total of five hours.

ELEC 2943 3 CR (2 LEC, 2 LAB) SPRING
ELECTRONICS CAPSTONE

Prerequisite or corequisite: ELEC 2753 Communication Systems

Integrates the fundamental principles and circuits learned in other electronic courses into a complete, electronics capstone. Must be taken in last semester of program.

ELEC 295V 1-3 CR (INT/PRAC) IRREGULAR
ELECTRONICS INTERNSHIP

Prerequisite: electronics major with 30 hours completed in program, cumulative GPA of 2.5, and consent of department head

Provides work experience in an area business with on-site supervision and instructor observation.

ELEC 299V 1-3 CR (VARIABLE) IRREGULAR
ELECTRONICS: SPECIAL PROJECTS

Prerequisites: advanced electronics student and consent of department head

Designed for the advanced electronics student who has completed or is enrolled in all other appropriate electronics courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated for a total of six hours.

ELEC 3303 3 CR (1 LEC, 4 LAB) IRREGULAR
MOTION CONTROL SYSTEM DESIGN

Prerequisite: junior standing or consent of department head

Covers the design and optimal selection of electrical/ mechanical power transmission components for servo motion control systems. Students will learn how to calculate torque/ speed/inertia required of the motor which is used to select the proper size servo or vector motor and matching motor control.

ELEC 3314 4 CR (1 LEC, 6 LAB) IRREGULAR
SERVO MOTION CONTROL PROGRAMMING

Prerequisite: junior standing or consent of department head

Covers the configuration/tuning/ programming of Mint servo drive: torque/current, speed and position PID Loops. Emphasis is on the selection of servo system components and the design of servo motion programs to control typical industrial automated systems.

ELEC 3413 3 CR (2 LEC, 2 LAB) FALL
ENERGY AUDITING

Prerequisite: junior standing or consent of department head

The three major areas of energy auditing featured in this course – insulation and lighting, passive solar heating and ventilation and RESINET National Rater Certification – represent the most effective energy conservation options for achieving high levels of energy conservation and minimizing carbon emissions.

It also prepares the student for green collar employment and certification in the energy auditing field.

ELEC 3433 3 CR (2 LEC, 2 LAB) SPRING
GENERATING CLEAN ELECTRONS

Prerequisite: junior standing or consent of department head

Introductory hands-on interactive experience with the three leading sources of alternative energy generation technologies and begins to prepare them for job roles in these new technical fields.

ELEC 3433 3 CR (2 LEC, 4 LAB) FALL
ROBOT STUDIO PROGRAMMING

Prerequisites: ELEC 2413 Robot Operations and Maintenance and ELEC 2423 Robot Programming II

Teaches the use of off-line programming software for simulating robot layout and reach capabilities and robot program simulation. Students will learn how to use ABB Robot Studio with IRC5 controllers.

ELEC 3513 3 CR (2 LEC, 2 LAB) SPRING
ADVANCED PLC CONTROL SYSTEMS

Prerequisite: ELEC 2513 PLC Applications or consent of department head

Covers Allen Bradley Control Logix design, selection, wiring, programming and troubleshooting, using Control Logix PLC controls. Emphasizes the selection of PLC system components and the design/troubleshooting of wiring/ladder logic PLC programs to control typical industrial automated systems.

ELEC 3523 3 CR (2 LEC, 2 LAB) FALL
HMI PROGRAMMING

Prerequisite: ELEC 2513 PLC Applications or consent of department head

Prerequisite or corequisite: ELEC 3513 Advanced PLC Control Systems or consent of department head

Covers Allen Bradley Human Machine Interface (HMI) Factory Talk design, selection, wiring, programming, and troubleshooting using Panel View Plus touchscreen. Emphasizes user-friendly design of HMI systems for use in industry.

ELEC 3933 3 CR (2 LEC, 2 LAB) FALL
INDUSTRIAL CONTROL SYSTEMS

Prerequisite: consent of department head

Covers basic continuous control, control strategy design and application, integration, and software instrumentation maintenance and troubleshooting.

ELEC 3934 4 CR (1 LEC, 6 LAB) IRREGULAR
INVERTER/VECTOR DRIVE SYSTEMS APPLICATIONS

Prerequisite: consent of department head

Covers the design, selection, programming, tuning and troubleshooting of inverter and open/closed loop vector motors/drives and related control systems. Emphasis is on the design, programming and troubleshooting of inverter/vector motors/drives systems used in typical industrial automated systems.

ELEC 490V 1-4 CR (VARIABLE) FALL, SPRING
SPECIAL TOPICS IN ELECTRONICS TECHNOLOGY

Prerequisite: consent of instructor

Current topics in electronics technology are explored. Topics are selected by faculty members according to their areas of expertise and student interest. May be repeated when topics differ for a total of eight hours.

ELEG Electrical Engineering

ELEG 2101 1 CR (2 LAB) FALL
ELECTRIC CIRCUITS I LABORATORY

Prerequisite or corequisite: ELEG 2103 Electric Circuits I

Experimental investigation of the steady-state behavior of resistive circuits excited by DC sources. Topics include measurement procedures, resistive networks, Thevenin and Norton equivalents, power, and transient responses.

ELEG 2103 3 CR (3 LEC) FALL
ELECTRIC CIRCUITS I

Prerequisite: MATH 2854 Calculus II

Corequisite: ELEG 2101 Electric Circuits I Laboratory

Introduction to circuit variables, elements, and simple resistive circuits. Analysis techniques applied to resistive circuits. The concepts of inductance, capacitance and mutual inductance. The natural and step responses of RL, RC, and RLC circuits.

ELEG 2111 1 CR (2 LAB) SPRING
ELECTRIC CIRCUITS II LABORATORY

Corequisite: ELEG 2113 Electric Circuits II

Experimental investigation of the steady-state behavior of circuits excited by sinusoidal sources. Includes test and measurement equipment and techniques, single- and three-phase circuits, power in single- and three-phase circuits, transformers, and resonance.

ELEG 2113 3 CR (3 LEC) SPRING
ELECTRIC CIRCUITS II

Prerequisite: ELEG 2103 Electronic Circuits I

Prerequisites or corequisite: ELEG 2111 Electric Circuits II Laboratory

Introduction to complex numbers. Sinusoidal steady-state analysis of electric circuits, active, reactive, apparent, and complex power; balanced and unbalanced three-phase circuits, mutual inductance; the use of the Laplace Transform for electric circuit analysis, and two-port networks.

ELEG 2903 3 CR (3 LEC) FALL
DIGITAL SYSTEMS I

An introduction to diodes and transistors, gates, binary arithmetic, combinational logic, sequential logic, registers, counters, memory, and computer organization.

ELEG 2913 3 CR (3 LEC) SPRING
DIGITAL SYSTEMS II

Prerequisite: ELEG 2903 Digital Systems I

A further study into diodes and transistors, gates, binary arithmetic, combinational logic, sequential logic, registers, counters, memory, and computer organization.

ELML Elementary and Middle Level Education

ELML 2013 3 CR (3 LEC) FALL, SPRING
EDUCATIONAL TECHNOLOGY AND DIGITAL LITERACY

Prerequisite or corequisite: EDUC 2783 Introduction to Educational Foundations

Introduction to skills and applications needed to integrate technology into instruction. Designed for students interested in elementary or middle level education.

ELML 3013 **3 CR (3 LEC) FALL, SPRING**
EDUCATIONAL PSYCHOLOGY

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: EDUC 4401 Integrating Health and Physical Education, ELML 3102 Foundations of Clinical Practice, ELML 3203 Introduction to Assessment, ELML 3302 Learning Environments, and READ 3303 Foundations of Teaching Reading and Writing

An overview of the major theories, issues, and research related to teaching and learning as it relates to human development.

ELML 3102 **2 CR (2 LEC, 4 LAB) FALL, SPRING**
FOUNDATIONS OF CLINICAL PRACTICE

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: EDUC 4401 Integrating Health and Physical Education, ELML 3013 Educational Psychology, ELML 3203 Introduction to Assessment, ELML 3302 Learning Environments, and READ 3303 Foundations of Teaching Reading and Writing

An introduction to the application of learning theories through curriculum, instruction, assessment, and lesson planning.

ELML 3202 **2 CR (2 LEC, 4 LAB) FALL, SPRING**
PRACTICUM I

Prerequisite: ELML 3102 Foundations of Clinical Practice

Prerequisites or corequisites: READ 3503 Methods and Materials for Teaching Literacy, READ 3803 Literacy Assessment and Intervention, and SPED 3003 Teaching Diverse Learners

Develops connections between university coursework and clinical practice.

ELML 3203 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO ASSESSMENT

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: EDUC 4401 Integrating Health and Physical Education, ELML 3013 Educational Psychology, ELML 3102 Foundations of Clinical Practice, ELML 3302 Learning Environments, and READ 3303 Foundations of Teaching Reading and Writing

Provides teacher candidates with foundational knowledge, understanding, and skill to use assessment to make decisions.

ELML 3302 **2 CR (2 LEC) FALL, SPRING**
LEARNING ENVIRONMENTS

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: EDUC 4401 Integrating Health and Physical Education, ELML 3013 Educational Psychology, ELML 3102 Foundations of Clinical Practice, ELML 3203 Introduction to Assessment, and READ 3303 Foundations of Teaching Reading and Writing

A study of effective classroom management, behavioral expectations, and techniques.

ELML 4102 **2 CR (2 LEC, 4 LAB) FALL, SPRING**
PRACTICUM II

Prerequisite: ELML 3202 Practicum I

Prerequisites or corequisites: EDUC 4203 Social Studies Curriculum, Instruction, and Assessment, ELML 4303 STEAM Curriculum, Instruction, and Assessment, and READ 3903 Disciplinary Literacy

Application of university coursework through clinical practice.

ELML 4303 **3 CR (3 LEC) FALL, SPRING**
STEAM CURRICULUM, INSTRUCTION, AND ASSESSMENT

Prerequisites: BIOL 1153/1151 Biological and Science/Laboratory and PHSC 2713/2711 Physical Science/Laboratory

Prerequisites or corequisites: EDUC 4203 Social Studies Curriculum, Instruction and Assessment, ELML 4102 Practicum II, and READ 3903 Disciplinary Literacy

Study of teaching integrated science, technology, engineering, art, and mathematics.

EMR Emergency Medical Responder

EMR 1405 **5 CR (4 LEC, 1 LAB) SPRING**
EMERGENCY MEDICAL RESPONDER

Prerequisite or corequisite: American Heart Association CPR Certification *CPR for Healthcare Providers*

Provides training in emergency care for those who will be responding to emergency calls or who have jobs requiring emergency response to the injured. Follows the National Standard Curriculum guidelines as set forth by the Department of Transportation.

EMT Emergency Medical Technology

EMT 1408 **8 CR (7.5 LEC, 2.5 LAB) FALL, SPRING**
EMERGENCY MEDICAL TECHNOLOGY-BASIC

Prerequisite: American Heart Association CPR Certification *CPR for Healthcare Providers* or American Red Cross *CPR for the Professional Rescuer*

An introductory study of emergency medical service systems and the basic principles of emergency care. Through didactic and clinical instruction, the EMT-Basic student will be prepared to write the National Registry EMT-Basic written and practical exams.

Students must demonstrate proficiency in the practical skills used in dealing with medical and trauma-related emergencies, such as airway management, patient assessment, spinal immobilization, oxygen therapy, defibrillation with the AED (automatic external defibrillator), and patient-assisted medication administration.

ENGL English

ENGL 0201 **1 CR (1 LEC) FALL, SPRING**
COLLEGE WRITING WORKSHOP

Prerequisite: placement into ENGL 1203 with required placement score

Corequisite: ENGL 1203 Composition I

Provides additional instructional support to qualified students enrolled in ENGL 1203.

ENGL 0202 **2 CR (2 LEC) FALL, SPRING**
COLLEGE WRITING STUDIO

Prerequisite: required placement score

Corequisite: ENGL 1203 Composition I

Provides intensive instructional support to qualified students enrolled in ENGL 1203

ENGL 0263 **3 CR (3 LEC) IRREGULAR**
TRANSITION TO COLLEGE WRITING AND READING

Prerequisite: required placement score

Integrated reading and writing, including assignments such as students will encounter in content courses. Includes critical, rhetorical, and summative reading methods; annotation and evaluation of readings. Writing assignments include summary, response, short answer, and synthesis.

ENGL 1203 3 CR (3 LEC) FALL, SPRING, SUMMER
COMPOSITION I

Prerequisite: ENGL 0263 Transition to College Writing and Reading or required placement score

Provides basic instruction in rhetoric and writing, analysis of texts, and critical thinking, as well as an introduction to academic research. (ACTS: ENGL 1013)

ENGL 1213 3 CR (3 LEC) FALL, SPRING, SUMMER
COMPOSITION II

Prerequisite: ENGL 1203 Composition I

Provides further instruction in rhetoric and writing, analysis of texts, critical thinking, and academic research methods. (ACTS: ENGL 1023)

ENGL 1233 3 CR (3 LEC) IRREGULAR
HONORS COMPOSITION

Prerequisites: 27 ACT (composite) and admission to the Miles Friedman Honors program, or consent of instructor and honors director

Advanced composition course for students admitted to the Miles Friedman Honors program that combines the outcomes of both ENGL 1203 and ENGL 1213. ENGL 1213 may not be taken for credit after completion of this course.

ENGL 130V 1-4 CR (VARIABLE) IRREGULAR
LANGUAGE AND CULTURE

Study of a specific world language and culture to increase cultural appreciation and basic language skills. Focus on the specific language and culture may vary each semester. May be repeated once for credit when topic differs.

ENGL 2013 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO GLOBAL LITERATURE

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Introduces the genres of fiction, non-fiction, poetry and drama via the medium of global (specifically, non-American) literature. Emphasizes critical evaluations of texts within the backdrop of historical and writing conventions of their time. Writing is required. (ACTS: ENGL 2113)

ENGL 2013H 3 CR (3 LEC) IRREGULAR
INTRODUCTION TO GLOBAL LITERATURE (HONORS)

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and HONR 1101 Introduction to Honors International Studies

Introduces the genres of fiction, non-fiction, poetry and drama via the medium of global (specifically, non-American) literature. Emphasizes critical evaluations of texts within the backdrop of historical and writing conventions of their time. Writing is required. International Honors topics are included.

ENGL 2023 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO AMERICAN LITERATURE

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Introduces the genres of fiction, non-fiction, poetry, and drama via American literature. Emphasizes critical evaluations of texts within the backdrop of historical and writing conventions of their time. All four genres will be addressed. Writing is required. (ACTS: ENGL 2653)

ENGL 2023H 3 CR (3 LEC) IRREGULAR
INTRODUCTION TO AMERICAN LITERATURE (HONORS)

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition , and HONR 1101 Introduction to Honors International Studies

Introduces the genres of fiction, non-fiction, poetry, and drama via American literature. Emphasizes critical evaluations of texts within the backdrop of historical and writing conventions of their time. All four genres will be addressed. Writing is required. International Honors topics are included.

ENGL 2113 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO LITERARY AND CULTURAL STUDIES

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Study and interpretation of literature and popular culture covering a variety of genre and literary terminologies and their applications. Introduction to literary criticism with an emphasis on cultural studies and its applications.

ENGL 2503 3 CR (3 LEC) FALL
LANGUAGE AND SOCIETY

Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition

Study of the basic characteristics of language and its use and variations in society.

ENGL 2853 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO CREATIVE WRITING

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition or consent of instructor

Surveys the major genres of creative writing, including fiction and poetry. Workshop-style focus on craft will develop fundamental skills to understand and appreciate literary expression as a meaningful visual, aural, and oral medium aimed at maturing the aesthetic experience. (ACTS: ENGL 2013)

ENGL 3003 3 CR (3 LEC) SPRING
HISTORY AND DEVELOPMENT OF THE ENGLISH LANGUAGE

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

The historical development of the English language from its Indo-European roots to the present day, with an emphasis on the developing nature of the language.

ENGL 3013 3 CR (3 LEC) FALL
SEMINAR: BRITISH LITERATURE I

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Prerequisites or corequisites: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods

A critical study of canonical works of the British Isles from the beginnings to the early eighteenth century.

ENGL 3023 3 CR (3 LEC) SPRING
SEMINAR: BRITISH LITERATURE II

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Prerequisites or corequisites: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods

Critical study of canonical works of the British Isles from the late eighteenth century to the present.

ENGL 3033 **3 CR (3 LEC) FALL**
SEMINAR: AMERICAN LITERATURE I

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Prerequisites or corequisites: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods

Critical study of canonical American works of the seventeenth to mid-nineteenth centuries.

ENGL 3043 **3 CR (3 LEC) SPRING**
SEMINAR: AMERICAN LITERATURE II

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Prerequisites or corequisites: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods

Critical study of canonical American works from the middle of the nineteenth century through the twenty-first century.

ENGL 3053 **3 CR (3 LEC) IRREGULAR**
POPULAR LITERATURE

Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition

Popular literature genres such as Gothic horror, mystery, science-fiction, fantasy, romance, and the Western. Study includes the development of popular genres, popular literature's reflection and impact on the culture from which it emerges, the significance of values associated with "high" and "low" literature, and narrative patterns characteristic of popular genres. Topics will rotate.

ENGL 3203 **3 CR (3 LEC) FALL**
YOUNG ADULT LITERATURE

Prerequisite: admission to the educator's preparation program

Prerequisites or corequisites: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods, or consent of the director of English teacher licensure program

Selection and evaluation of young adult literature based upon biological, sociocultural, psychological, and developmental characteristics, emphasizing gender-fair and multicultural resources. Analysis and synthesis of teaching methods for literature that reflect the attitudes and interests of young adults.

ENGL 3223 **3 CR (3 LEC) ODD FALL**
THE SHORT STORY

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies

Prerequisite or corequisite: RHET 3203 Textual Research Methods

An intense study of the short story, focusing on period, thematic, or national contrasts or convergences. Topics will vary each semester.

ENGL 3233 **3 CR (3 LEC) EVEN SPRING**
THE NOVEL

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies

Prerequisite or corequisite: RHET 3203 Textual Research Methods

An intense study of the novel, focusing on period, thematic, or national contrasts or convergences. Topics offered on a rotating basis may include the Gothic novel, 1930s American novels, the war novel, the novel of manners, and the romance novel.

ENGL 3243 **3 CR (3 LEC) ODD SPRING**
DRAMA

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies or THEA 3603 Directing I or consent of instructor

An intense study of dramatic productions and texts, focusing on period, thematic, or national contrasts or convergences. Topics will vary each semester.

ENGL 3303 **3 CR (3 LEC) SPRING**
WRITING AND THE TEACHING OF WRITING

Prerequisite: admission to the educator's preparation program

Prerequisites or corequisites: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods, or consent of the director of English teacher licensure program

Practical application of current pedagogical approaches to teaching writing, grammar, and language awareness, using knowledge of theory, research, technology, and practice in composing individual and collaborative texts. Conventional and unconventional approaches to language acquisition, including current trends, issues, and research in teaching language awareness to native and second-language English learners.

ENGL 3343 **3 CR (3 LEC) IRREGULAR**
POETRY

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies

Prerequisite or corequisite: RHET 3203 Textual Research Methods

An intense study of poetry, focusing on period, thematic, or national contrasts or convergences. Topics will vary each semester.

ENGL 3443 **3 CR (3 LEC) SPRING**
LITERATURE OF DIVERSE CULTURES

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies

Prerequisite or corequisite: RHET 3203 Textual Research Methods

Emphasizes literature outside of the traditional Western canon. Topics are offered on a rotating basis, and may include the following: African American literature, African literature, Asian literature, Chicano/a literature, and Native American literature.

ENGL 3453 **3 CR (3 LEC) IRREGULAR**
WOMEN AND LITERATURE

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies

Prerequisite or corequisite: RHET 3203 Textual Research Methods

Explores the writing of women in a variety of literary genres, time periods, and literatures. The course is variable, with different content each semester. May be repeated, when topics differ, for a total of nine hours.

ENGL 3503 **3 CR (3 LEC) FALL**
LANGUAGES OF THE WORLD

Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition or consent of department head

Study of language and its classification, development, and structural aspects.

ENGL 3663 **3 CR (3 LEC) FALL**
ENGLISH GRAMMAR
Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition
An intense study of English grammar.

ENGL 4103 **3 CR (3 LEC) IRREGULAR**
MAJOR AUTHORS
Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods
Focuses on a major author of literary, historical, and/or cultural significance. Along with an intensive focus on the author's work, a close analysis of their life and times will be included. May be repeated, when topics differ, for a total of nine hours.

ENGL 4123 **3 CR (3 LEC) IRREGULAR**
REGIONAL/GEOGRAPHIC TOPICS IN LITERATURE
Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods
Focuses on literature of a specific geography or region. May be repeated, when topics differ, for a total of nine hours.

ENGL 4203 **3 CR (3 LEC) EVEN FALL**
CHAUCER
Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods
A reading-intensive course meant to introduce the student to the major works of Chaucer, as well as to a selection of critical theory and studies of the works. Readings of Chaucer will be from the Middle English text, and students will be required to become fluent in the language.

ENGL 4213 **3 CR (3 LEC) SPRING**
SHAKESPEARE
Prerequisites: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods, or THEA 3603 Directing I, or consent of instructor
A critical study of Shakespeare's major works, including selected comedies, tragedies, and histories. Shakespeare is a versatile source author, since his works are textually complex and widely read, offering opportunities for exploration into poetic and dramatic aspects of the works from many critical and historical perspectives.

ENGL 4223 **3 CR (3 LEC) IRREGULAR**
SEVENTEENTH CENTURY BRITISH LITERATURE
Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods
Selected poetry, prose, and plays from the Renaissance.

ENGL 4243 **3 CR (3 LEC) ODD SPRING**
VICTORIAN LITERATURE
Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods
Acquaints students, through a survey of literary texts, with the traditions, beliefs, motifs, and common themes of the Victorian Period (1837-1901) in English Literature.

ENGL 4313 **3 CR (3 LEC) FALL**
SECOND AND FOREIGN LANGUAGE TEACHING METHODS
Prerequisite: ENGL 1213 Composition II
Comprehensive approach to curriculum design, instruction, and assessment of second language programs combining theory and practice.

ENGL 4323 **3 CR (3 LEC) FALL**
SECOND LANGUAGE ACQUISITION
Prerequisite: ENGL 1213 Composition II
Important theories of and research in second language acquisition (SLA), similarities and differences between first and second language acquisition, and the relevance of SLA to the second language classroom.

ENGL 4333 **3 CR (3 LEC) SPRING**
SECOND LANGUAGE ASSESSMENT
Prerequisite: ENGL 1213 Composition II
Current principles and practices used to assess communicative language skills in a second language. Assessment reflects real-world language use, or meaningful communication outside the assessment situation.

ENGL 4353 **3 CR (3 LEC) SPRING**
TEACHING PEOPLE OF OTHER CULTURES
Prerequisite: ENGL 1213 Composition II
Explores issues faced by non-native speakers of English and people from other cultures when entering the mainstream US school system or the professional world. Techniques and activities to incorporate cultural diversity in the learning environment and assist students from differing backgrounds.

ENGL 4773 **3 CR (3 LEC) ODD FALL**
EIGHTEENTH CENTURY BRITISH LITERATURE
Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods
Students analyze and discuss major works of literature produced between 1690 and 1789 in the British Isles.

ENGL 4793 **3 CR (3 LEC) EVEN SPRING**
TWENTIETH CENTURY AMERICAN LITERATURE
Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods
A reading intensive and focused study of the literature and print culture of twentieth-century American literature. Students will engage in the process of critical analysis as they study twentieth-century American texts.

ENGL 4813 **3 CR (3 LEC) FALL**
INTRODUCTION TO DIGITAL HUMANITIES
Prerequisites: COMM 3903 Communication Research Methods, or RHET 3203 Textual Research Methods, or consent of instructor
An introduction to the emerging and growing field of digital humanities. Explores the digitization of text and text encoding, digital scholarly editions, distant reading, big data in literature, digital pedagogies, social and new media, network theory and historical application, and real world applications. Focuses on in-depth study of a specific text or corpus for project purposes.

ENGL 4903 **3 CR (3 LEC) IRREGULAR**
SPECIAL TOPICS IN LITERATURE

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies

Prerequisite or corequisite: RHET 3203 Textual Research Methods

Critical study of literature not included in other course offerings. Topics vary, often crossing geographic and temporal lines and usually dealing with a specific genre or a theme. May be repeated, when topics differ, for a total of nine hours.

ENGL 4911 **1 CR (1 LEC) FALL, SPRING**
SEMINAR IN APPLIED LITERACY PEDAGOGY

Prerequisite: admission to the educator's preparation program

Prerequisite or corequisite: ENGL 2113 Introduction to Literary and Cultural Studies and RHET 3203 Textual Research Methods, or consent of the director of English with teacher licensure program

Designed to meet the current needs of the teacher candidate with regard to special topics, trends, and issues in instructional design and technology.

ENGL 4913 **3 CR (3 LEC) IRREGULAR**
SPECIAL TOPICS IN POPULAR CULTURE

Prerequisite: ENGL 2113 Introduction to Literary and Cultural Studies

Prerequisite or corequisite: RHET 3203 Textual Research Methods

Focuses on in-depth study of a specific moment, figure, figures, or genre within popular culture. May be repeated, when topics differ, for a total of nine hours.

ENGL 493V **1-3 CR (IND STU) IRREGULAR**
ENGLISH INDEPENDENT STUDY

Prerequisites: senior standing, 15 hours of English, and consent of instructor

For the student of superior ability who wishes to undertake research in the field. May be repeated for a total of three hours.

ENGL 4993 **3 CR (3 LEC) FALL**
CAPSTONE

Prerequisites: senior standing, ENGL 2113 Introduction to Literary and Cultural Studies, and RHET 3203 Textual Research Methods

Students will synthesize, integrate, and/or apply their previous knowledge and skills in the creation of a professional portfolio to include a sustained 20 page paper/project.

ENGN Engineering

ENGN 1111 **1 CR (1 LEC, 1 LAB) FALL, SPRING**
INTRODUCTION TO ENGINEERING I

Introduction of the engineering profession to first-year students, emphasizing the professional and relevant computer skills.

ENGN 1121 **1 CR (1 LEC, 1 LAB) FALL, SPRING**
INTRODUCTION TO ENGINEERING II

Prerequisite: ENGN 1111 Introduction to Engineering I

Further study of the engineering profession to first year students. A semester project will be used to teach engineering principles.

ENGN 1022 **2 CR (2 LEC) IRREGULAR**
ENGINEERING ANALYSIS

Prerequisite: MATH 1403 College Algebra or higher MATH course

Introduction to engineering analysis using tools such as vectors, matrix algebra, problem solving, and computer programming.

ENGN 190V **1-4 CR (VARIABLE) IRREGULAR**
ENGINEERING WORK-BASED LEARNING

Prerequisite: consent of instructor or dean

A comprehensive treatment of relevant work experience related to the student's major field of study. Includes cooperative education, apprenticeships, extended job shadowing, internships and any other systematic, planned work experience. Academic faculty and local employers work together with students to ensure the relationship between classroom instruction and work experience. The dean approves the work experience and the number of hours of credit to be earned. May be repeated for a total of eight hours.

ENGN 2753 **3 CR (3 LEC) FALL**
ENGINEERING STATICS

Prerequisite: MATH 2804 Calculus I

Includes topics such as equilibrium of particles and rigid bodies, moments of forces, centroids, moments of inertia, analysis of structures, friction, and virtual work. Both scalar and vector formulations are used, and methods of computer solutions are introduced.

ENGN 2763 **3 CR (3 LEC) SPRING**
DYNAMICS

Prerequisite: ENGN 2753 Engineering Statics

A continuation of ENGN 2753. Topics covered include kinematics and kinetics of particles and rigid bodies, work and energy, impulse, and momentum.

ENGN 2803 **3 CR (3 LEC) SPRING**
THERMODYNAMICS

Prerequisite: MATH 2804 Calculus I and PHYS 2903 University Physics I

A study of the first and second laws of thermodynamics, including availability of energy; properties of liquids, gases and vapors; and non-flow and flow processes.

FIN Finance

FIN 1521 **1 CR (1 LEC) FALL, SPRING, SUMMER**
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) FALL, SPRING**
BUSINESS FINANCE

Prerequisite: admission to the business program 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) SPRING
INVESTMENTS

Prerequisite: FIN 3713 Business Finance and admission to the business program, 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) SPRING
FINANCIAL STATEMENT ANALYSIS

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

The analysis and interpretation of financial statements. Effective financial statement evaluation examined from the perspective of managers, investors, and creditors. Pro forma statement development for effective financial management.

FIN 3813 3 CR (3 LEC) SPRING
MONEY, BANKING, AND FINANCIAL MARKETS

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

A study of financial assets, finance intermediaries, money and capital markets, and their impact on economic systems. Examines the function and evolution of money, origin and development of depository institutions, economics and regulation of depository institutions, and functions of the Federal reserve system.

FIN 4203 3 CR (3 LEC) FALL
INTERNATIONAL FINANCE

Prerequisites: MGMT 2963 Business Statistics or STAT 2503 Probability and Statistics I, FIN 3713 Business Finance and admission to the business program, 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) FALL
CAPITAL BUDGETING

Prerequisite: FIN 3713 Business Finance and admission to the business program, 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) FALL
MANAGEMENT OF FINANCIAL INSTITUTIONS

Prerequisite: FIN 3713 Business Finance and admission to the business program, 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) IRREGULAR
INDEPENDENT STUDY IN FINANCE

Prerequisites: admission to the business program, 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) IRREGULAR
SPECIAL TOPICS IN FINANCE

Prerequisites: admission to the business program 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) FALL
PRINCIPLES OF PORTFOLIO MANAGEMENT

Prerequisite: FIN 3723 Investments and admission to the business program, 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) SPRING
ADVANCED FINANCIAL MANAGEMENT

Prerequisite: FIN 3713 Business Finance and admission to the business program, 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) SPRING
DERIVATIVE SECURITIES AND MARKETS

Prerequisite: FIN 3723 Investments and admission to the business program, or consent of instructor

Studies the risk allocation function of derivative financial securities and markets from the perspective of market users. It includes hedging and trading strategies, pricing relationships, and the roles of government regulation.

FORL Foreign Language

FORL 130V 1-4 CR (VARIABLE) IRREGULAR
LANGUAGE AND CULTURE

Study of a specific world language and culture to increase cultural appreciation and basic language skills. Focus on the specific language and culture may vary each semester. May be repeated once for credit when topic differs.

FORL 2503 3 CR (3 LEC) FALL
LANGUAGE AND SOCIETY

Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition

Study of the basic characteristics of language and its use and variations in society.

FORL 2552 2 CR (2 LAB) IRREGULAR
LANGUAGE PRACTICE

Prerequisite: FREN 1314 Beginning French II, or GERM 1314 Beginning German II, or SPAN 1314 Beginning Spanish II, or consent of instructor

Supports and enhances communication skills and increases vocabulary in the specified language.

FORL 299V **1-3 CR (VARIABLE) IRREGULAR**
SPANISH: SPECIAL PROJECTS
Prerequisite: consent of instructor or dean
Designed for advanced Spanish students who have completed or are enrolled in all other appropriate Spanish courses offered at UAFS. A learning contract must be prepared and agreed upon by each student, the faculty advisor, and the dean.

FORL 3503 **3 CR (3 LEC) FALL**
LANGUAGES OF THE WORLD
Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition or consent of department head
Study of language and its classification, development, and structural aspects.

FORL 4313 **3 CR (3 LEC) FALL**
SECOND AND FOREIGN LANGUAGE TEACHING METHODS
Prerequisite or corequisite: EDUC 3013 Human Development and Learning or consent of the department head
Comprehensive approach to curriculum design, instruction, and assessment of second and foreign language programs combining theory and practice.

FORL 4323 **3 CR (3 LEC) FALL**
SECOND LANGUAGE ACQUISITION
Prerequisite: EDUC 3013 Human Development and Learning
Important theories of and research in second language acquisition (SLA), similarities and differences between first and second language acquisition, and the relevance of SLA to the second and/or foreign language classroom.

FORL 4333 **3 CR (3 LEC) SPRING**
SECOND LANGUAGE ASSESSMENT
Prerequisite: ENGL 1213 Composition II
Current principles and practices used to assess communicative language skills in a second language. Assessment reflects real-world language use, or meaningful communication outside the assessment situation.

FORL 4343 **3 CR (3 LEC) SPRING**
TEACHING PEOPLE OF OTHER CULTURES
Prerequisite: ENGL 1213 Composition II
Explores issues faced by non-native speakers of English and people from other cultures when entering the mainstream US school system or the professional world. Techniques and activities to incorporate cultural diversity in the learning environment and assist students from differing backgrounds.

FREN French

FREN 1304 **4 CR (3 LEC, 2 LAB) FALL**
BEGINNING FRENCH I
Foundation course in the fundamental French language skills—listening comprehension, speaking, reading, writing, and cultural insight with emphasis on communication. (ACTS: FREN 1013)

FREN 1314 **4 CR (3 LEC, 2 LAB) SPRING**
BEGINNING FRENCH II
Prerequisite: FREN 1304 Beginning French I or required placement score
Foundation course in the fundamental French language skills - listening comprehension, speaking, reading, writing, and cultural insight. Continues the work of FREN 1304. Emphasis is on communication. (ACTS: FREN 1023)

FREN 2303 **3 CR (3 LEC) FALL**
INTERMEDIATE FRENCH I
Prerequisite: FREN 1314 Beginning French II or required placement score
Continues the development of French language skills -listening comprehension, speaking, reading, writing, and cultural insight. (ACTS: FREN 2013)

FREN 2313 **3 CR (3 LEC) IRREGULAR**
INTERMEDIATE FRENCH II
Prerequisite: FREN 2303 Intermediate French I or required placement score
Continues the development of French language skills -listening comprehension, speaking, reading, writing, and cultural insight. (ACTS: FREN 2023)

FREN 305V **1-4 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS IN FRENCH
Prerequisite: FREN 2313 Intermediate French II
Advanced study of the French language and culture to increase cultural appreciation and basic language skills. Specific focus may vary each semester.

FREN 3553 **3 CR (3 LEC) IRREGULAR**
IMMERSION IN A FRANCOPHONE REGION
Prerequisite: FREN 1314 Beginning French II or consent of department head
Cultural immersion providing intensive experience with the language, cultural traditions, and social institutions in a Francophone region.

GEOG Geography

GEOG 2753 **3 CR (3 LEC) FALL, SPRING**
WORLD REGIONAL GEOGRAPHY
Examines the countries of the world, focusing on regional geographical factors which have influenced the direction and extent of their development. (ACTS: GEOG 2103)

GEOG 2753H **3 CR (3 LEC) IRREGULAR**
WORLD REGIONAL GEOGRAPHY (HONORS)
Prerequisite or corequisite: HONR 1101 Introduction to Honors International Studies
Examines the countries of the world, focusing on regional geographical factors which have influenced the direction and extent of their development. Includes scholarly analysis of the geographical factors underlying international relations and guiding political interactions, both past and present.

GEOG 2763 **3 CR (3 LEC) IRREGULAR**
PHYSICAL GEOGRAPHY
A survey of the spatial patterns of the earth's landforms, the processes of shaping them and humans' interaction with these landforms. (ACTS: GEOG 2223)

GEOG 2773 **3 CR (3 LEC) IRREGULAR**
HUMAN GEOGRAPHY
A survey of the distribution of the people and cultures on earth. (ACTS: GEOG 1113)

GEOG 3103 **3 CR (3 LEC) IRREGULAR**
GEOGRAPHY OF GLOBALIZATION

Prerequisite: GEOG 2753 World Regional Geography or GEOG 2773 Human Geography

A survey of the phenomenon of globalization from the ancient world to the global interconnectivity of the world today.

GEOG 3113 **3 CR (3 LEC) IRREGULAR**
GEOGRAPHY OF INTERNATIONAL MIGRATION

Prerequisite: GEOG 2753 World Regional Geography or GEOG 2773 Human Geography

A survey of the movement of peoples across the earth from/to Africa, Asia, Europe, Australia, and the Americas, including types of migration, laws and regulations, and individual migration.

GEOG 3123 **3 CR (3 LEC) IRREGULAR**
RACE, ETHNICITY, AND PLACE IN AMERICA

Appraises economic, political, legal, and social institutions that played pivotal roles in the evolution of American racial geography. Hispanic-American, African-American, Asian-American and European-American cultures are examined.

GEOG 4903 **3 CR (3 LEC) IRREGULAR**
SPECIAL TOPICS IN GEOGRAPHY

Prerequisite: GEOG 2753 World Regional Geography or consent of instructor

Study of selected topics in geography. Course content varies. Special topics are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours when topics differ.

GEOL Geology

GEOL 1251 **1 CR (2 LAB) FALL, SUMMER**
PHYSICAL GEOLOGY LABORATORY

Prerequisite or corequisite: GEOL 1253 Physical Geology

Application of laboratory methods to solve problems pertaining to mineral and rock identification, relative and radiometric dating, plate tectonics, volcanoes, earthquakes, geologic structures, and groundwater.

GEOL 1253 **3 CR (3 LEC) FALL, SUMMER**
PHYSICAL GEOLOGY

Introduction to geology, including minerals, rocks, geologic time, plate tectonics, volcanoes, earthquakes, geologic structures, and groundwater. (ACTS: GEOL 1114; must have GEOL 1253/1251)

GEOL 2003 **3 CR (3 LEC) FALL**
GEOSCIENCE SEMINAR

Prerequisite: GEOL 1253/1251 Physical Geology/Laboratory or GEOL 2653/2651 Earth Science/Laboratory

Introduction to technical writing, editing, and oral presentations in geosciences. Students will locate, read, and interpret published scientific papers and geologic reports. Preparation of abstracts, research proposals, scientific papers and presentations will also be covered

GEOL 2261 **1 CR (2 LAB) SPRING**
HISTORICAL GEOLOGY LABORATORY

Prerequisite or corequisite: GEOL 2263 Historical Geology

Identification and interpretation of minerals and rocks, stratigraphic columns, sedimentary depositional environments, paleogeography, relative and absolute dating, and fossil identification.

GEOL 2263 **3 CR (3 LEC) SPRING**
HISTORICAL GEOLOGY

Prerequisite: GEOL 1253/1251 Physical Geology/Laboratory or GEOL 2653/2651 Earth Science/Laboratory

Origin and evolution of the earth and life through geologic time, with emphases on mineral and rock formation, stratigraphic principles, sedimentary depositional environments, paleogeography, relative and absolute dating, and fossil identification. (ACTS: GEOL 1134; must have GEOL 2263/2261)

GEOL 2311 **1 CR (2 LAB) FALL**
MINERALS AND ROCKS LABORATORY

Prerequisites: CHEM 1403/1401 College Chemistry I/ Laboratory or consent of instructor

Corequisite: GEOL 2313 Minerals and Rocks

Laboratory analysis and identification of solid materials that make up the Earth's crust including minerals, rocks, and sediments. Major topics include rock and mineral composition, texture, and structure, including geologic environments of formation. Rock and mineral hand specimen classification and identification techniques are emphasized.

GEOL 2313 **3 CR (3 LEC) FALL**
MINERALS AND ROCKS

Prerequisites: CHEM 1403/1401 College Chemistry I/ Laboratory or consent of instructor

Prerequisite or corequisite: GEOL 2311 Minerals and Rocks Laboratory

The study of solid materials that make up the Earth's crust including minerals, rocks, and sediments. Major topics include rock and mineral composition, texture, and structure, including geologic environments of formation. Rock and mineral hand specimen classification and identification techniques are emphasized.

GEOL 2651 **1 CR (2 LAB) FALL, SPRING**
EARTH SCIENCE LABORATORY

Prerequisite or corequisite: GEOL 2653 Earth Science

A study in minerals, rocks, fossils, topographic map and geologic maps, and oceanographic and meteorological phenomena.

GEOL 2653 **3 CR (3 LEC) FALL, SPRING**
EARTH SCIENCE

Prerequisite or corequisite: GEOL 2651 Earth Science Laboratory

Study of fundamental principles and procedures of physical and historical geology, geologic hazards, plate tectonics, soil formation, groundwater, oceanography, and meteorology. (ACTS: PHSC 1104; must have GEOL 2653/2651)

GEOL 3014 **4 CR (3 LEC, 2 LAB) SUMMER**
GEOLOGICAL FIELD METHODS

Prerequisites: GEOL 2263/2261 Historical Geology/ Laboratory

Geological mapping on a topographic base, collection and interpretation of field data, and geological report writing.

GEOL 3103 **3 CR (3 LEC) IRREGULAR**
PALEOCLIMATOLOGY

Prerequisite: BIOL 1153 Biological Science or GEOL 2263/2261 Historical Geology/Laboratory

Examines Earth's climate variability and change, including the influence of human activity on such change, and the interactions between climate and the global environment. Topics include climate classifications, methods of paleoclimate determination, global warming and greenhouse effect, acid rain, and ozone depletion.

GEOL 3104 4 CR (3 LEC, 2 LAB) IRREGULAR
GEOMORPHOLOGY

Prerequisite: GEOL 3014 Geological Field Methods

Studies landforms and the processes that modify them in fluvial, glacial, periglacial, aeolian, coastal, and semiarid environments. Topics include soils, fluvial processes, quaternary dating methods, and neotectonics. Laboratory emphasizes field techniques and data analysis.

GEOL 3113 3 CR (3 LEC) IRREGULAR
VOLCANOLOGY

Prerequisites: GEOL 2313/2311 Minerals and Rocks/ Laboratory

Examines volcanism in various tectonic settings and its impact on climate and the biosphere. Topics include analysis and mitigation of volcanic hazards, and monitoring techniques for active volcanoes.

GEOL 3203 3 CR (3 LEC) EVEN SPRING
GEOCHEMISTRY

Prerequisites: CHEM 1413/1411 College Chemistry II/ Laboratory or consent of instructor

Theory and application of chemical principles to geological studies, including distribution and movement of major and trace elements, radiogenic and stable isotopes, geochronology, and chemical equilibrium in geologic systems.

GEOL 3303 3 CR (3 LEC) IRREGULAR
GLOBAL TECTONICS

Prerequisites: GEOL 2263/2261 Historical Geology/ Laboratory

Development and current state of plate tectonic theory. Topics include measurements of current plate motions and reconstructions of past plate motions and supercontinents.

GEOL 3404 4 CR (3 LEC, 2 LAB) FALL
STRUCTURAL GEOLOGY

Prerequisites: GEOL 3014 Geological Field Methods

Survey of deformational features and their geological significance in the crust of the Earth. Understanding the principles of crustal deformation, plate tectonics, kinematics, stress and strain, and construction of geological maps used in structural analysis.

GEOL 3504 4 CR (3 LEC, 2 LAB) SPRING
PETROLOGY

Prerequisites: GEOL 2313/2311 Minerals and Rocks/ Laboratory

The origin, classification, and occurrence of igneous and metamorphic rocks: their texture, mineralogy, chemistry, and plate tectonic associations. The lab emphasizes the identification and description of igneous and metamorphic microtextures in thin section under polarized light.

GEOL 3833 3 CR (3 LEC) IRREGULAR
ENVIRONMENTAL GEOLOGY

Prerequisite: GEOL 2263/2261 Historical Geology/ Laboratory or consent of instructor

The study of Earth based on geologic concepts relevant to current environmental issues. Geologic principles are used to define underlying problems related to water resources, pollution, natural hazards, waste disposal, energy and mineral resources.

GEOL 400V 1-3 CR (VARIABLE) FALL, SPRING
UNDERGRADUATE RESEARCH IN GEOSCIENCE

Prerequisites: GEOL 2003 Geoscience Seminar and consent of instructor

Literature review, hypothesis testing, data analysis, and presentation of research results in geoscience. May be repeated up to maximum four credit hours.

GEOL 401V 1-3 CR (VARIABLE) IRREGULAR
SPECIAL TOPICS IN GEOSCIENCE

Prerequisite: consent of instructor

Current topics in geoscience are explored. Topics are selected by faculty members according to their areas of expertise and student interest. May be repeated when topics differ.

GEOL 4023 3 CR (LEC) FALL
APPLIED GEOGRAPHIC INFORMATION SYSTEMS

Prerequisites: UAS 1103 Introduction to Geographic Information Systems and UAS 1203 GPS Mapping Fundamentals, or consent of instructor

Exposes students to challenges in the GIS field. Students will collect and evaluate data and apply it to GIS-based projects.

GEOL 410V 1-3 CR (INT/PRAC) IRREGULAR
INTERNSHIP IN GEOSCIENCE

Prerequisite: consent of instructor

Preapproved work experience in a geoscience position in industry or the public sector. The student will be supervised by a faculty member and a liaison from the field experience site. Career development strategies and geoscience knowledge and skills will be emphasized. May be repeated up to a maximum of three credit hours.

GEOL 4104 4 CR (3 LEC, 2 LAB) FALL
SEDIMENTARY DEPOSITION

Prerequisites: GEOL 3014 Geological Field Methods or consent of instructor

Studies the fundamental principles of sedimentological deposition, including the physical, chemical, and biological, characteristics of sedimentary rocks. Emphasizes the study of sedimentary rocks to interpret depositional environments, changes in ancient sea levels, and other aspects of Earth's history.

GEOL 4124 4 CR (3 LEC, 2 LAB) SPRING
SEDIMENTARY STRATIGRAPHY

Prerequisites: GEOL 4104 Sedimentary Deposition or consent of instructor

Paleoenvironmental analysis of sedimentary deposits using the facies model. Techniques such as seismic, basin, and sequence stratigraphy will also be discussed.

GEOL 4203 3 CR (3 LEC) IRREGULAR
PALEOBOTANY

Prerequisites: BIOL 2303/2301 General Botany/Laboratory or GEOL 2263/2261 Historical Geology/Laboratory

Evolutionary history of major vascular plant groups is studied. Included are taphonomy and fossilization of plants, diversity of plants through time, plant evolution, plant paleoecology, and paleoclimatic considerations. Concepts of geological time, stratigraphy and sedimentation are included.

GEOL 4214 **4 CR (3 LEC, 2 LAB) SPRING**
INVERTEBRATE PALEONTOLOGY

Prerequisites: GEOL 3014 Geological Field Methods or consent of instructor

The study of fossil invertebrates emphasizes both soft and skeletal anatomy, as well as the relationship between those known only from fossils and animals living today. Emphasis is on the identification of the most abundant fossils, and their use as tools for stratigraphic correlation and interpretation of ancient environments of deposition.

GEOL 4224 **4 CR (3 LEC, 2 LAB) IRREGULAR**
HYDROGEOLOGY

Prerequisites: CHEM 1413/1411 College Chemistry II/ Laboratory or consent of instructor

Stresses quantitative problem solving in groundwater settings and provides a balance between physical and chemical hydrogeology. The occurrence and movement of ground water in a variety of geologic settings will be examined through numerous case studies and laboratory work.

GEOL 4304 **4 CR (3 LEC, 2 LAB) IRREGULAR**
ENVIRONMENTAL GEOCHEMISTRY

Prerequisites: CHEM 1413 College Chemistry II or consent of instructor

Study of chemical composition, speciation, and transport in the natural environment. Topics include soil geochemistry, radioactive and stable isotopes in environmental studies, and geochemistry of surface and ground waters. Lab emphasizes data analysis and environmental problem solving.

GEOL 4313 **3 CR (3 LEC) FALL**
VERTEBRATE PALEONTOLOGY

Prerequisites: GEOL 4214 Invertebrate Paleontology or BIOL 1153 Biological Science or consent of instructor

Application of scientific principles to the study of Mesozoic vertebrate marine reptiles, dinosaurs, and early to mid-Cenozoic mammals utilizing geological and biological approaches and theories.

GEOL 4323 **3 CR (3 LEC) SPRING**
PETROLEUM GEOLOGY

Prerequisites: GEOL 4104 Sedimentary Deposition or consent of instructor

Introduction to petroleum exploration using techniques from sedimentology, stratigraphy, structural geology, and hydrogeology. Also studies the analysis and reconstruction of sedimentary basins. Well log analysis, seismic interpretation, drilling techniques, and new techniques, such as sequence stratigraphy, will be covered.

GEOL 4406 **6 CR (3 LEC, 6 LAB) SUMMER**
SUMMER FIELD GEOLOGY

Prerequisites: GEOL 3404 Structural Geology, GEOL 3504 Petrology, and GEOL 4124 Sedimentary Stratigraphy

Field mapping of sedimentary, igneous, and metamorphic rocks and geologic structures in a variety of settings, using a combination of traditional methods and new technologies. Integration and analysis of geological field data culminating in written reports, geologic maps, cross-sections, and other products suitable for publication.

GERM German

GERM 1304 **4 CR (3 LEC, 2 LAB) IRREGULAR**
BEGINNING GERMAN I

Foundation course in the fundamental German language skills—listening comprehension, speaking, reading, writing, and cultural insight with emphasis on communication. (ACTS: GERM 1013)

GERM 1314 **4 CR (3 LEC 2 LAB) IRREGULAR**
BEGINNING GERMAN II

Prerequisite: GERM 1304 Beginning German I or required placement score

Foundation course in the fundamental German language skills—listening comprehension, speaking, reading, writing, and cultural insight. Continues the work of GERM 1304. Emphasis is on communication. (ACTS: GERM 1023)

GERM 2303 **3 CR (3 LEC) IRREGULAR**
INTERMEDIATE GERMAN I

Prerequisite: GERM 1314 Beginning German II or required placement score

Continues the development of German communication skills —listening comprehension, speaking, reading, writing and cultural insight. (ACTS: GERM 2013)

GERM 2313 **3 CR (3 LEC)IRREGULAR**
INTERMEDIATE GERMAN II

Prerequisite: GERM 2303 Intermediate German I or required placement score

Continues the development of German communication skills—listening comprehension, speaking, reading, writing and cultural insight. (ACTS: GERM 2023)

GERM 305V **1-4 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS IN GERMAN

Prerequisite: GERM 2313 Intermediate German II

Advanced study of the German language and culture to increase cultural appreciation and basic language skills. Specific focus may vary each semester.

GERM 3553 **3 CR (3 LEC) IRREGULAR**
IMMERSION IN A GERMAN SPEAKING REGION

Prerequisite: GERM 1314 Beginning German II or consent of department head

Cultural immersion providing intensive experience with the language, cultural traditions, and social institutions in a German speaking region.

GIPM General Industrial Plant Maintenance

GIPM 1283 **3 CR (3 LEC) IRREGULAR**
HYDRAULICS AND PNEUMATICS

A study of the basic industrial fluid power systems common to the field of automation, including basic principles, components, standards, symbols, circuits and troubleshooting of hydraulic and pneumatic systems. The proper selection and safe operation of components and equipment is a mandatory requirement of this course.

GIPM 1334 4 CR (3 LEC, 2 LAB) IRREGULAR
MAINTENANCE OF PLUMBING SYSTEMS

Emphasis is placed on piping systems, fixtures, faucets, and reducing, and relief valves. Application of this knowledge to simulated maintenance activities will be taught in accordance with the National Plumbing Code.

GRDS Graphic Design

GRDS 2103 3 CR (2 LEC, 4 STU) SPRING
ADVANCED TYPOGRAPHY

Prerequisites: ART 1551 Admissions Portfolio or consent of instructor

Explores advanced typographic techniques, including the digital mechanics of kerning, tracking, leading, special characters, ligatures, punctuation, font and color choices. Projects simultaneously target minute details and overall effect of sophisticated type handling. Visual order, type hierarchy, symbolism, and cultural aspects of type design are emphasized.

GRDS 2243 3 CR (2 LEC, 4 STU) FALL
DIGITAL ILLUSTRATION

Prerequisites: ART 1551 Admissions Portfolio or consent of instructor

Introduces the student to software applications used in the execution of various types of digital illustration. One, two, and multi-color illustration projects are covered, as well as exporting, printing, scanners, and color printers. Projects involve illustration issues, problem solving, and deadlines.

GRDS 2253 3 CR (2 LEC, 4 STU) SPRING
INTERACTIVE DESIGN

Prerequisites: ART 1551 Admissions Portfolio or consent of instructor

Introduces technical and aesthetic considerations concerning interactive design. Current standard best practices in user experience and user interface are incorporated. Wire framing, prototyping, and visual communication issues are addressed

GRDS 2303 3 CR (2 LEC, 4 STU) FALL
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.

GRDS 2343 3 CR (2 LEC, 4 STU) SPRING
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.

GRDS 2503 3 CR (2 LEC, 4 STU) IRREGULAR
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.

GRDS 299V 1-3 CR (VARIABLE) IRREGULAR
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.

GRDS 3223 3 CR (2 LEC, 4 STU) IRREGULAR
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, such as film, inkjet printers, dye-sublimation and prepress preparation are discussed.

GRDS 3243 3 CR (2 LEC, 4 STU) FALL
INTERACTIVE DEVELOPMENT

Prerequisites: GRDS 2103 Advanced Typography, GRDS 2253 Interactive Design, GRDS 2343 Print and Publication Design, GRDS 2303 Graphic Design, and GRDS 2243 Digital Illustration, or consent of instructor

Builds upon the foundation established in GRDS 2253. Covers code languages used for current interactive design technology.

GRDS 3263 3 CR (2 LEC, 4 STU) IRREGULAR
ADVANCED DIGITAL PHOTOGRAPHY

Prerequisites: GRDS 3223 Digital Photography or consent of instructor

Explores the use of photography in artistic expression, journalistic documentation, and visual design narrative. Lighting, advanced post print processes, and photography as business is covered.

GRDS 3273 3 CR (2 LEC, 4 STU) FALL
MOTION DESIGN

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

Explores motion for graphic design using 2D and 3D animation, design elements, video and sound design. The projects will explore elements of storytelling, design over time and technical considerations using standard professional methods. Media will be delivered to the screen via authoring for current replay mediums and the web.

GRDS 3313 3 CR (2 LEC, 4 STU) IRREGULAR
CREATIVE PROCESS IN DESIGN

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 the use of multiple and varied approaches to visual problem solving. Investigation into alternate creative thinking techniques is explored. Various creative thinkers from the past

and present are surveyed and analyzed. Projects involve research, collaboration, and problem solving.

GRDS 3323 3 CR (2 LEC, 4 STU) SPRING
PRODUCTION MANAGEMENT/PREPRESS

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 advanced production issues that involve print media, including spot-color and process color issues. Ink, paper choices, prepress production and printing issues are covered, along with project management from conception to final output. Solving complex design and production problems encountered in dealing with clients, printers and deadlines are important components. Projects involve multiple-page designs and include collaboration and teamwork training.

GRDS 3403 3 CR (2 LEC, 4 STU) FALL
ADVERTISING DESIGN I

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. The creation of thumbnails and computer comps are covered, as well as headline, subhead and copy writing. Projects involve collaboration, problem solving, and deadlines.

GRDS 3503 3 CR (2 LEC, 4 STU) IRREGULAR
ADVANCED ILLUSTRATION

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.

GRDS 3603 3 CR (2 LEC, 4 STU) SPRING
PACKAGING DESIGN

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, employing various design solutions to solve three-dimensional problems. The creation of thumbnails and computer comps are covered as well as product packaging, point-of-purchase displays, and trade show booth design. Projects involve collaboration, problem solving, and deadlines.

GRDS 372V 3-6 CR (INT/PRAC) FALL, SPRING, SUMMER
GRAPHIC DESIGN INTERNSHIP

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. The length of the internship will be either 120 or 240 clock hours and is typically completed during a fall, spring, or summer semester.

GRDS 399V 1-3 CR (VARIABLE) IRREGULAR
ADVANCED GRAPHIC DESIGN SPECIAL PROJECTS

Prerequisites: junior or senior standing and consent of instructor and department head

An individual project in graphic design areas offered on an arranged basis. Projects and deadlines are determined by the student and instructor. May be repeated when topics differ for a total of six hours.

GRDS 4313 3 CR (2 LEC, 4 STU) FALL
IDENTITY DESIGN

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 systems, copy writing, advertisement, collateral material, brochure and/or annual report, and rationale. Production and printing issues encountered are also addressed. Projects involve collaboration, problem solving, and deadlines.

GRDS 4403 3 CR (2 LEC, 4 STU) IRREGULAR
ADVERTISING DESIGN II

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 copy writing within advertising campaigns, photography direction, production, and printing issues. Projects involved are addressed. Projects involve collaboration, problem solving, and deadlines.

GRDS 4623 3 CR (2 LEC, 4 STU) SPRING
GRAPHIC DESIGN BUSINESS PRACTICES

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 and pricing, strategies for landing design jobs, professional relationships, fees and contracts, managing large projects, copyright, trademark, and ethical issues.

GRDS 4933 4 CR (2 LEC, 4 STU) FALL
GRAPHIC DESIGN SENIOR THESIS

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. The thesis begins with a proposal, supported by research and analysis of the problem or project, and culminates with a written and oral presentation to accompany an exhibition of the final work.

HISP Public History

HISP 3503 **3 CR (3 LEC) IRREGULAR**
BASIC SKILLS IN INTERPRETATION
Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and HIST 2753 United States History I or HIST 2763 United States History II
Introduces skills and methods of interpretation, including both historical and natural interpretation.

HISP 3513 **3 CR (3 LEC) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) IRREGULAR**
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) FALL, SPRING**
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) FALL, SPRING**
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) IRREGULAR**
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) FALL, SPRING**
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) FALL, SPRING**
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) IRREGULAR**
UNITED STATES HISTORY II (HONORS)
Prerequisite: acceptance into the Miles Friedman Honors program
Covers the development of the United States from 1862 to the present. The political development along with the industrial growth of the United States and the international relations of the period is emphasized. In the honors section, all of the above will be discussed in the light of their impact on society.

HIST 3053 **3 CR (3 LEC) FALL, SPRING**
HISTORY OF MODERN SCIENCE
Prerequisite: junior standing or consent of the instructor
Addresses the major events and personalities in the history of science beginning with Copernicus and continuing to the present. Discusses the high points in the physical and biological sciences that have contributed significantly to the way we view our world. Subjects will be viewed in light of how they have affected mankind and society.

HIST 3063 **3 CR (3 LEC) SPRING**
HISTORY OF TECHNOLOGY IN SOCIETY
Prerequisite: junior standing or consent of the instructor
The history of technology and its impact on societies and cultures, with special emphasis on western developments since the Industrial Revolution.

HIST 3103 **3 CR (3 LEC) IRREGULAR**
HISTORY OF MEDIEVAL CIVILIZATION
A study of the social class structure and Christianity in forming the institutions of medieval civilization, circa 1000-1350 A.D.

HIST 3113 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3123 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3133 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3143 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3203 **3 CR (3 LEC) IRREGULAR**
HISTORY OF ENGLAND TO 1714
The period from the earliest times to the end of the Stuart dynasty.

HIST 3213 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3223 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3303 **3 CR (3 LEC) IRREGULAR**
TWENTIETH CENTURY EUROPE
European history in the twentieth century.

HIST 3313 **3 CR (3 LEC) FALL**
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.

HIST 3323 **3 CR (3 LEC) SPRING**
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.

HIST 3403 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3413 **3 CR (3 LEC) IRREGULAR**
AMERICAN REVOLUTION 1763-1787
The study of Colonial Society in 1763, British imperial policy and the American response, the war for independence, effects of the Revolution on American ideas and institutions.

HIST 3423 **3 CR (3 LEC) IRREGULAR**
THE NEW REPUBLIC: UNITED STATES, 1787-1824
The formation of the Constitution, the emergence of American political institutions, economic and social development, and nationalism.

HIST 3433 **3 CR (3 LEC) IRREGULAR**
AGE OF JACKSON: UNITED STATES 1824-1848
The development of democracy in the Jacksonian period, social and cultural aspects of American life, and westward movement, and the Mexican War.

HIST 3443 **3 CR (3 LEC) SPRING**
CIVIL WAR AND RECONSTRUCTION, 1848-1876
The origins of the American Civil War, its course, and subsequent efforts at reconciling the North and South. Emphasis on the social, economic, and cultural background to the war and its impact on American society.

HIST 3453 **3 CR (3 LEC) IRREGULAR**
THE GILDED AGE: UNITED STATES, 1876-1900
United States history from the end of Reconstruction through the presidential administration of William McKinley. Emphasizes the changing character of America in this era, including the farmers' revolt, industrialization, foreign affairs, and major social trends.

HIST 3463 **3 CR (3 LEC) IRREGULAR**
UNITED STATES HISTORY, 1900-1945
The political, economic, social, and diplomatic development of the United States between 1900 and 1945.

HIST 3473 **3 CR (3 LEC) IRREGULAR**
UNITED STATES HISTORY, 1945-PRESENT
The political, economic, social, and diplomatic development of the United States since 1945.

HIST 3503 **3 CR (3 LEC) IRREGULAR**
HISTORY OF LATIN AMERICA: THE REPUBLICAN PERIOD
Formation of the Latin American countries stressing political, economic, social, and cultural factors, as well as the role of Latin America in world affairs.

HIST 3513 **3 CR (3 LEC) IRREGULAR**
RUSSIA SINCE 1855

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 study of Russia from Alexander II through the rise and eventual collapse of the Soviet Union.

HIST 3603 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3613 **3 CR (3 LEC) IRREGULAR**
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.

HIST 3623 **3 CR (3 LEC) IRREGULAR**
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

Study of postcolonial Africa with emphasis on the sociocultural, political, and economic transformations since the end of colonial rule.

HIST 3663 **3 CR (3 LEC) IRREGULAR**
CASTLES AND CATHEDRALS OF THE MIDDLE AGES

Prerequisites: HUMN 2563 Humanities through the Arts or AHIS 2863 Art History Survey I, or consent of instructor

Explores the art of the European Middle Ages through the castle and the cathedral. Covers technology and architectural styles within the context of historical and cultural influences. Monumental pictorial arts (mural painting, stained-glass windows, tapestries) and sumptuous arts (works in precious metals, stones, enamels, and ivory) that enriched and activated these spaces are also a fundamental aspect of the course. This course is equivalent to AHIS 3663, may only take one course for credit.

HIST 3803 **3 CR (3 LEC) IRREGULAR**
METHODS OF HISTORICAL RESEARCH

Prerequisite: 12 hours of history coursework

Techniques of historical research, critical analysis of historical texts, and written and oral presentation of research results and analysis.

HIST 4113 **3 CR (3 LEC) IRREGULAR**
THE AMERICAN WEST: TRANS-MISSISSIPPI

Study of westward expansion of the U. S., including penetration into the Trans-Mississippi River West after the Lewis and Clark expedition. Also examines the culture, social, political, and economic development of the indigenous Indians of the northern and southern plains.

HIST 4123 **3 CR (3 LEC) IRREGULAR**
AFRICAN-AMERICAN HISTORY TO 1865

Development of the culture and history of African-Americans from slavery to emancipation is presented through lecture, selected readings, discussion groups, presentations by students, and preparation of a bibliographic essay.

HIST 4133 **3 CR (3 LEC) IRREGULAR**
AFRICAN-AMERICAN HISTORY SINCE 1865

Study of the socioeconomic, cultural, and political development of African-Americans from the end of the Civil War to the present.

HIST 4143 **3 CR (3 LEC) IRREGULAR**
SOUTHWEST FRONTIER SEMINAR

Prerequisite: HIST 2753 United States History I

A seminar course concentrating on America's nineteenth century Southwest frontier. Discussions, field trips, reading, and writing assignments will explore and expand existing historical scholarship, with an emphasis on the geographical area of the Arkansas River and Red River Valleys during the period from 1803 to 1917.

HIST 4153 **3 CR (3 LEC) FALL, SPRING**
HISTORY OF ARKANSAS

Physiographic and demographic patterns; exploration, settlement, and political, social, and economic evolution of Arkansas from the Spanish and French excursions to the present. A study of contemporary policies and government in Arkansas.

HIST 4163 **3 CR (3 LEC) IRREGULAR**
THE NATIVE AMERICAN AND THE UNITED STATES

Prerequisite: junior standing or consent of department head

Survey of the development and progression of Native American policy by the government and people of the United States from 1783 to the present.

HIST 4173 **3 CR (3 LEC) IRREGULAR**
SURVEY OF AMERICAN MILITARY HISTORY

Prerequisite: HIST 2753 United States History I

A survey of American military history from the Revolution to the present concentrating on training, weapons and tactics.

HIST 4203 **3 CR (3 LEC) FALL**
HISTORY OF MATHEMATICS

Prerequisites: MATH 2854 Calculus II

The history of mathematics from ancient times to the twentieth century with emphasis on three aspects: the development of mathematics throughout the centuries, mathematics as a human endeavor, and the history of mathematics as an educational tool.

HIST 4213 **3 CR (3 LEC) IRREGULAR**
PERSPECTIVES OF WOMEN IN WORLD HISTORY

Prerequisite: junior standing

An examination of the conditions of women in history with emphasis on problems in world history; attitudes toward women as reflected in religious, legal, and philosophical literature; and the role of expectations of women in various societies.

HIST 4223 **3 CR (3 LEC) IRREGULAR**
EARLY AMERICAN WOMEN'S HISTORY

Prerequisites: junior standing and HIST 2753 United States History I

An examination of the economic, family and political roles and contributions of native, colonial, slave, immigrant and frontier women in early American history through the Civil War.

HIST 4233 3 CR (3 LEC) IRREGULAR
MODERN AMERICAN WOMEN'S HISTORY

Prerequisites: junior standing and HIST 2763 United States History II

Surveys the diversity of women's experiences in America 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.

HIST 4303 3 CR (3 LEC) IRREGULAR
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.

HIST 4313 3 CR (3 LEC) IRREGULAR
MEDIEVAL MIDDLE EAST 476-1453

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

HIST 4503 3 CR (3 LEC) FALL
INTRODUCTION TO PUBLIC HISTORY

Prerequisites: history major in junior standing or consent of instructor

Introduces methods and practices of public history.

HIST 4803 3 CR (3 LEC) FALL, SPRING
SEMINAR IN UNITED STATES HISTORY

Prerequisites: senior standing, 15 credit hours of United States history, and HIST 3803 Methods of Historical Research

Advanced study of a topic in United States history chosen by instructor; includes a major research and writing project incorporating the goals of identifying a problem; establishing a thesis; gathering, evaluating, and analyzing evidence; and writing in an appropriate scholarly format.

HIST 4813 3 CR (3 LEC) IRREGULAR
SEMINAR IN ARKANSAS HISTORY

Prerequisites: HIST 4153 History of Arkansas and consent of instructor

Discussion, directed readings, research, and writing on selected issues. Advanced study of a topic in Arkansas history chosen by instructor; includes a major research and writing project incorporating the goals of identifying a problem; establishing a thesis; gathering, evaluating, and analyzing evidence; and writing in an appropriate scholarly format. May be repeated, when topics differ, for a total of six hours.

HIST 4823 3 CR (3 LEC) SPRING
TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL

Prerequisites or corequisites: EDUC 3013 Human Development and Learning or consent of department head

Subject matter applications for secondary educator preparation candidates (grades 7-12) in social studies. Course incorporates a variety of instructional models, activities and examples as well as the integration of traditional and nontraditional resource materials in teacher preparation for social studies required prior to internship.

HIST 4903 3 CR (3 LEC) FALL, SPRING
HISTORY: SPECIAL TOPICS

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

Study of selected topics in history. Course content varies. May be repeated when topics differ, for a total of 12 hours.

HIST 493V 1-3 CR (IND STU) IRREGULAR
HISTORY: INDEPENDENT STUDY

Prerequisites: senior standing, 15 credit hours of history, and consent of instructor

For students of superior ability who seek special research in the field. May be repeated for a total of six hours.

HIST 4953 3 CR (INT/PRAC) IRREGULAR
HISTORY INTERNSHIP

Prerequisites: 12 credit hours of history, minimum of junior standing, and consent of instructor

Involves field experience with a history-related business or public agency. The student works under the supervision of an individual at the internship agency and a member of the history faculty. The student must secure permission from both supervisors before registration. May be repeated for a total of six hours.

HLTH Health Sciences

HLTH 1001 1 CR (1 LEC) FALL, SPRING, SUMMER
BASIC LIFE SUPPORT (BLS) FOR HEALTHCARE PROVIDERS

Participants learn to recognize and respond to life-threatening emergencies using skills of cardiopulmonary resuscitation (CPR), use of an automated external defibrillator (AED), and relief of foreign-body obstruction. American Heart Association guidelines for BLS and CPR for healthcare providers are followed.

HLTH 1004 4 CR (2 LEC, 4 LAB) FALL
INTRODUCTION TO HEALTH OCCUPATIONS

Designed to provide students with basic information and skills needed for a career in the healthcare field. Emphasis on the development of competencies related to student organizations, medical history and events, healthcare systems, healthcare careers, qualities of a successful healthcare worker, medical ethics and legal responsibilities, and nutrition and health. A wide range of health-related topics and health-career opportunities are analyzed in a classroom setting through research, participation in lecture/discussions, and presentations by community healthcare professionals. CPR as a healthcare provider is offered

HLTH 1024 4 CR (3 LEC, 2 LAB) IRREGULAR
PHARMACY TECHNOLOGY

Prerequisites: HLTH 1473 Medical Terminology and BIOL 1433/1431 Basic Anatomy and Physiology/Laboratory

A basic introduction into all aspects of pharmacy practice. To include: medication dosage forms, routes of administration, abbreviations, pharmacy calculations, pharmacy law, interpreting medication orders, drug information resources, compounding, medication errors, and institutional, ambulatory and home care pharmacy practice.

HLTH 1025 5 CR (5 LEC) IRREGULAR
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.

HLTH 1473 3 CR (3 LEC) FALL, SPRING
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.

HLTH 2953 3 CR (3 LEC) FALL, SPRING
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.

HLTH 3103 3 CR (3 LEC) FALL, SPRING
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.

HLTH 316V 3-6 CR (VARIABLE) IRREGULAR
TRANSCULTURAL HEALTH

Prerequisite: NURS 3227 Foundations of Nursing Care, or SUR 153A Surgical Technology Practicum I, or RADT 1124 Clinical Education I, or consent of instructor

Examines the interrelationship of culture and health. Clinical practice opportunities, in the United States or internationally, introduce students to the health practices and issues of persons from various parts of the world helping to prepare them to care for a multicultural clientele. May require travel.

HLTH 4103 3 CR (3 LEC) FALL, SPRING
RESEARCH IN THE HEALTH SCIENCES

Prerequisites: admission into a health sciences program or consent of executive director of the School of Nursing or dean of the College of Health, Education, and Human Sciences, and STAT 2503 Probability and Statistics I

Introduction into methods and techniques of research in health sciences. Focuses on basic research terminology, research designs, qualitative and quantitative methods, and data analysis. Critical-thinking skills used to evaluate clinical research for applicability to the health sciences.

HONR Honors

HONR 1101 1 CR (1 LEC) FALL
INTRODUCTION TO HONORS INTERNATIONAL STUDIES

Prerequisite: admission to the Miles Friedman Honors Program

Overview of Miles Friedman Honors program structure, university offerings, and political, social, economic and cultural relationships within the international system.

HONR 1510 0 CR (LEC) IRREGULAR
HONORS AMERICAN STUDIES (DOMESTIC MAYMESTER)

Prerequisite: HONR 1101 Introduction to Honors International Studies

Corequisite: selected Honors American Studies course, including but not limited to HIST 2763H United States History II (Honors) or POLS 2753H American National Government (Honors)

Prepares students for the Honors American Studies (Domestic Maymester). Course will be taken concurrently with prescribed courses compatible with the focus of American studies and may vary according to course selection topics.

HONR 287V 3-7 CR (VARIABLE) IRREGULAR
HONORS INTERDISCIPLINARY SEMINAR

Prerequisites: admission to the Miles Friedman Honors program or consent of honors program director

An interdisciplinary seminar for honors students with varying topics. The course is team taught by professors from different disciplines, who collaborate in developing activities that allow students to make cross disciplinary connections while meeting the basic outcomes of individual courses. This course counts for selected general education core requirements depending on course content. Two iterations of the course may be taken for honors degree requirements.

HONR 3713 3 CR (3 LEC) FALL, SPRING
HONORS JUNIOR RESEARCH SEMINAR

Prerequisite: junior standing and completion of 18 hours of Honors courses

Prepares Miles Friedman Honors program students for independent research projects. Advanced research techniques, survey of current global trends, in-depth investigation of possible global issues worthy of development in the HONR 4803 Honors International Studies Capstone.

HONR 4803 3 CR (IND STU) FALL, SPRING
HONORS INTERNATIONAL STUDIES CAPSTONE

Prerequisites: HONR 3713 Honors Junior Research Seminar, and consent of instructor and director of the Miles Friedman Honors Program

Investigation of a major international topics of interest by honors students under the mentorship of a faculty member. Requires critical thinking to research, analyze, and communicate findings, culminating with a written paper or scholarly project and public presentation of results.

HUMN Humanities

HUMN 2563 3 CR (3 LEC) FALL, SPRING, SUMMER
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) IRREGULAR**
HUMANITIES THROUGH THE ARTS (HONORS)

Prerequisites: ENGL 1233 Honors Composition and acceptance into Miles Friedman Honors program

The honors section of Humanities Through the Arts will challenge students to trace the classical tradition in Western art (painting, sculpture, music, architecture, and literature). Primary focus will be on how that tradition has been preserved, transformed, abandoned, revived, etc. Concepts such as idealism, realism, significant form, classical, romantic, and modern serve as a framework for exploring the tradition of western art. (ACTS: ARTA 1003)

HUMN 2663 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO FILM

Prerequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition

Explores the art of film and the expression of societal values through the medium of film. Film techniques, major directors of film, historical genres, and significant works will be studied and analyzed. Major American films will be the primary focus, although some films from abroad may be included.

IDS Interdisciplinary Studies

IDS 1403 **3 CR (3 LEC) FALL**
CHANCELLOR'S LEADERSHIP CLASS

Prerequisite: admission to the Chancellor's Leadership Council

Explores frequently discussed, but difficult to define, concepts of leadership. Discussion will provide undergraduate leaders the opportunity to explore the concepts of leadership and to develop and improve their leadership skills.

IDS 3001 **1 CR (1 LEC) IRREGULAR**
CAREER READINESS

Prerequisite: junior standing

Provides necessary skills for successful transition into and preparation for the professional business environment.

IS Imaging Sciences

Enrollment in courses beginning with the IS prefix requires admission to the imaging sciences program or consent of the executive director of Imaging Sciences.

IS 3103 **3 CR (3 LEC) FALL**
LEGAL AND ETHICAL CONSIDERATIONS IN HEALTHCARE

Explores legal and ethical issues affecting imaging professional. Basic concepts of law, medical legal issues such as standard of care, scope of practice, and professional malpractice, and professional and administrative ethics to include ethical problem solving.

IS 3113 **3 CR (3 LEC) IRREGULAR**
PATIENT INFORMATION MANAGEMENT

Provides the basic concepts in managing patient information. Topics for medical records management include privacy and regulatory issues, accreditation standards regarding accountability and protection, management models, charting, HIPAA, and informatics systems.

IS 3203 **3 CR (3 LEC) IRREGULAR**
PERSPECTIVES IN HUMAN DIVERSITY

Designed to explore the characteristics of a diverse population to better promote understanding of patients, patient's families and professional peers. Value systems, cultural and ethnic influences, communication styles, socioeconomic influences, and health risks are explored in-depth. An understanding of the factors that influence patient and peer interrelationships and insight into human diversity will assist the imaging professional in providing better patient care and departmental effectiveness.

ISL Imaging Sciences Leadership

Enrollment in courses beginning with the ISL prefix requires admission to the imaging sciences program or consent of the executive director of Imaging Sciences.

ISL 4203 **3 CR (3 LEC) FALL**
LEADERSHIP PRINCIPLES AND THEORIES

Prerequisite: admission into the BSIS-Leadership program

Corequisite: ISL 4213 Leadership Practicum

Introduces the skills and knowledge necessary for the imaging professional to provide leadership in the workplace and promote professional development. Theoretical knowledge, principles of leadership, and leadership/management styles are explored. A combination of theory content, case studies, and critical-thinking exercises provide insight into topics such as leadership, motivation, communication, group dynamics, team building, and the components of effective leadership.

ISL 4213 **3 CR (6 LAB) FALL**
LEADERSHIP PRACTICUM

Prerequisite: admission into the BSIS-Leadership program

Corequisite: ISL 4203 Leadership Principles and Theories

An intensive clinical assignment that allows students to apply theoretical concepts in a practice setting.

ISL 4223 **3 CR (3 LEC) SPRING**
CONTEMPORARY AND CRITICAL TOPICS IN HEALTHCARE: A GLOBAL PERSPECTIVE

Prerequisite: admission into the BSIS-Leadership program

Introduces the student to global health concepts and the network of organizations working to advance healthcare internationally. Emphasis is on the global burden of disease and determinates of health, healthcare economics, the political process and its impact on the health of individuals and populations.

ISL 4303 **3 CR (3 LEC) SPRING**
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.

ISL 4313 **3 CR (3 LEC) SUMMER**
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's role

when addressing social and ethical issues impacting healthcare, epidemiological studies used to measure healthcare delivery, and technology's impact on healthcare delivery.

ISL 4403 **3 CR (IND STU) SPRING**
INDEPENDENT STUDY IN IMAGING SCIENCES

Prerequisite: admission into the BSIS-Leadership program

Supervised investigation of an advanced imaging science topic. Faculty consultation and approval of topic is required.

ISL 4413 **3 CR (3 LEC) SUMMER**
ADMINISTRATION AND SUPERVISION IN DIAGNOSTIC IMAGING

Prerequisite: admission into the BSIS-Leadership program

A study of the principles of administration and supervision of imaging departments. Topics include management functions, financial stewardship, in-service training, decision making, and human relations.

ISL 4423 **3 CR (3 LEC) SPRING**
RISK MANAGEMENT

Prerequisite: IS 3103 Legal and Ethical Considerations in Healthcare

An introduction into the sources of risk, target populations, and documentation and reporting of incidents. Strategies to reduce or minimize possible risk by using systematic collection and utilization of data will be included as well as the formulation of a risk-management action plan.

ISL 4503 **3 CR (INT/PRAC) SPRING**
INTERNSHIP IN IMAGING SCIENCES

Prerequisite: admission into the BSIS-Leadership program

Allows students the opportunity to gain experience in the promotion of the imaging sciences profession. Projects may include public speaking engagements, providing in-service training, recruitment, or other projects approved by faculty.

ISL 4513 **3 CR (IND STU) SUMMER**
APPLIED RESEARCH

Prerequisite: HLTH 4103 Research in the Health Sciences

This capstone course requires the application of research concepts for the purpose of conducting intense research culminating in a substantive paper. Research topics should be selected according to the interest of the student with instructor approval.

ISS Imaging Sciences Sonography

Enrollment in courses beginning with the ISS prefix requires admission to the diagnostic medical sonography program or consent of the executive director of Imaging Sciences.

ISS 3102 **2 CR (10 LAB) FALL**
CLINICAL LABORATORY PRACTICE

Prerequisite: admission into the diagnostic medical sonography degree program

Corequisites: ISS 3103 Acoustical Physics and Instrumentation I and ISS 3113 Cross Sectional Anatomy

Application of sonographic-scanning procedures in the laboratory setting. Emphasis on anatomical recognition in the cross-sectional planes and the proper use of sonographic instruments and equipment.

ISS 3103 **3 CR (3 LEC) FALL**
ACOUSTICAL PHYSICS AND INSTRUMENTATION I

Prerequisite: admission into the diagnostic medical sonography degree program

Corequisites: ISS 3113 Cross-Sectional Anatomy and ISS 3102 Clinical Laboratory Practice

Basic acoustical physics, principles of ultrasound instruments, modes of operation, operator control options, frequency selection, and echogenic properties discussed. Emphasis on ultrasound transmission in soft tissues, attenuation of sound energy, parameters affecting sound transmission, and resolution of sound beams.

ISS 3113 **3 CR (3 LEC) FALL**
CROSS-SECTIONAL ANATOMY

Prerequisite: admission into an imaging sciences program

Corequisites: ISS 3103 Acoustical Physics and Instrumentation I and ISS 3102 Clinical Laboratory Practice

The study of human anatomy in the transverse, longitudinal, and coronal planes with application to sonographic images, CT, and MRI.

ISS 3203 **3 CR (2 LEC, 2 LAB) SPRING**
ABDOMINAL SONOGRAPHY I

Prerequisite: ISS 3113 Cross-Sectional Anatomy

Corequisites: ISS 3212 Acoustical Physics and Instrumentation II, ISS 3213 Clinical Practice I, and ISS 3223 Vascular Sonography I

Human anatomy in the transverse, longitudinal, and coronal planes with emphasis on organs in abdomen and pelvic cavity. Study of disease process and physiological alterations, sonographic methods to visualize adult and pediatric abdomens, normal variants, congenital anomalies, physiology, and related laboratory tests. Technical information to include procedural and scanning techniques will be examined.

ISS 3212 **2 CR (2 LEC) SPRING**
ACOUSTICAL PHYSICS AND INSTRUMENTATION II

Prerequisite: ISS 3103 Acoustical Physics and Instrumentation I

Corequisites: ISS 3203 Abdominal Sonography I, ISS 3213 Clinical Practice I, and ISS 3223 Vascular Sonography I

Continues the exploration into the interaction of ultrasound production and display, various transducer designs and construction, quality assurance/control, bioeffects, image artifacts, techniques for recording static and dynamic images, methods of color flow, the Doppler principles, and hemodynamics.

ISS 3213 **3 CR (15 LAB) SPRING**
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.

ISS 3223 **3 CR (2 LEC, 2 LAB) SPRING**
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.

ISS 4303 3 CR (2 LEC, 2 LAB) SUMMER
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.

ISS 4323 3 CR (24 LAB) SPRING
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.

ISS 4403 3 CR (3 LEC) FALL
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.

ISS 4413 3 CR (3 LEC) FALL
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.

ISS 4433 3 CR (2 LEC, 2 LAB) FALL
VASCULAR SONOGRAPHY II

Prerequisite: ISS 3223 Vascular Sonography I

Corequisites: ISS 4403 Pathophysiology and Special Applications, ISS 4413 Abdominal Sonography II, and ISS 4434 Clinical Practice III

Advanced study of vascular sonography including the effects of medication on vascular diagnostic findings, clinical signs and symptoms, related diagnostic procedures, and typical/atypical findings of vascular disease. Study will include the quantitative principles applied to vascular testing. Technical information to include performance of physiological testing, real-time ultrasound imaging and Doppler evaluation as it relates to vasculature.

ISS 4434 4 CR (20 LAB) FALL
CLINICAL PRACTICE III

Prerequisite: ISS 4323 Clinical Practice II

Corequisites: ISS 4403 Pathophysiology and Special Applications, ISS 4413 Abdominal Sonography II, and ISS 4433 Vascular Sonography II

Continued application of sonographic scanning procedures in a hospital or clinic setting with independent scanning when competency has been demonstrated. Special emphasis will be placed on the pancreas, kidneys, spleen, superficial parts, pelvis, abdominal vasculature, peripheral arterial and venous system, and cerebrovascular system. The production and interpretation of normal and pathologic sonograms along with film critique are critical components.

ISS 4501 1 CR (2 LAB) SPRING
PROFESSIONAL SEMINAR

Prerequisite: successful completion of first four semesters in the diagnostic medical sonography program

Corequisites: ISS 4513 Obstetrical and Gynecological Sonography II and ISS 4544 Clinical Practice IV

Review of essential topics, facts and principles required to pass the four ARDMS (American Registry of Diagnostic Medical Sonographers) national boards. Simulated ARDMS registry examinations based on the ARDMS outline is administered to students to examine progress and assess strengths and weaknesses. Recent applications, skills, knowledge, behaviors and/or attitudes pertinent to the technology or profession and relevant to the professional development of the student is addressed.

ISS 4513 3 CR (2 LEC, 2 LAB) SPRING
OBSTETRICAL AND GYNECOLOGICAL SONOGRAPHY II

Prerequisite: ISS 4303 Obstetrical and Gynecological Sonography I

Corequisites: ISS 4501 Professional Seminar and ISS 4544 Clinical Practice IV

Advanced study of obstetrical and gynecological anatomy to include clinical applications and sonographic methods used to visualize pelvic organs, the pregnant uterus and related structures. A comparison of normal sonographic patterns with identification of pathology, physiology, differentials, and correlations with lab tests and related organ development will be presented. Technical information on procedural and scanning techniques is included.

ISS 4544 4 CR (20 LAB) SPRING
CLINICAL PRACTICE IV

Prerequisite: ISS 4434 Clinical Practice III

Corequisites: ISS 4513 Obstetrical and Gynecological Sonography II and ISS 4501 Professional Seminar

Students must demonstrate full competency and progress to full independence by the end of course. Areas of competency include identification of the anatomy and pathology of the abdomen, small parts (special applications), and obstetrical and gynecological system. Rotations in the practice of peripheral

vascular exams and other specialties within the field may be arranged. Film critique is a critical component of this course.

ITA Information Technology - Applications

ITA 1003 **3 CR (3 LEC) FALL, SPRING, SUMMER**
COMPUTER APPLICATIONS FOR THE KNOWLEDGE WORKER

An introduction to computer literacy using Microsoft applications such as Word, Access, Excel and Power Point. Real work problem sets are used as integrated assignments. (ACTS: CPSI 1003)

ITA 1011 **1 CR (1 LEC) IRREGULAR**
QUICKBOOKS

Accounting basics using QuickBooks including writing checks, creating reports, managing accounts payables/receivables, invoicing, inventory management, and payroll. Outside computer practice is required.

ITA 1051 **1 CR (1 LEC) FALL, SPRING**
COMPUTER – WORD PROCESSING

Addresses the principles and concepts of computer-based word processing. Develops skills in using graphics, tables and graphs to provide visual support to written information for effective communication.

ITA 1101 **1 CR (1 LEC) FALL, SPRING**
COMPUTER – PRESENTATION GRAPHICS

Develops skills in basic text presentation including graphics to enhance oral presentation and effective communication.

ITA 1201 **1 CR (1 LEC) IRREGULAR**
COMPUTER – DATABASE

Uses of database as a tool for collection of data, extraction of information from data, and presentation of information to support decision making and effective communication.

ITA 1251 **1 CR (1 LEC) FALL, SPRING**
COMPUTER – SPREADSHEETS

Addresses the use of spreadsheets to draw inferences from data as a communication tool. General order of operations and algebraic formulas are applied to data.

ITC Information Technology - Core

ITC 1374 **4 CR (4 LEC) SPRINGMI**
PROGRAMMING FOR ENGINEERS

Prerequisite: MATH 1403 College Algebra or higher MATH

A course for students majoring in engineering. Topics include data representation, high-level languages, looping, functions, arrays, pointers, and an introduction to the Linux operating system shell.

LAW

LAW 2003 **3 CR (3 LEC) FALL, SPRING**
LEGAL ENVIRONMENT OF BUSINESS

Covers the legal business environment as it affects the consumer, employees, investors, government regulations, business ethics, marketing practices, and international transactions. (ACTS: BLAW 2003)

LAW 4023 **3 CR (3 LEC) SPRING**
LEGAL ISSUES IN HUMAN RESOURCES

Prerequisites: LAW 2003 Legal Environment of Business, MGMT 3153 Organizational Behavior and admission to the business program, or consent of instructor

Legal issues that confront human resource professionals and management personnel. Areas covered include, employment at will, privacy laws, sexual harassment, disability claims, compensation, occupational safety, civil rights, medical leave and discrimination. May be used as an upper-level LAW or MGMT elective.

LAW 4033 **3 CR (3 LEC) FALL**
LAW OF COMMERCIAL TRANSACTIONS

Prerequisite: LAW 2003 Legal Environment of Business and admission to the business program, or consent of instructor

Business-related legal subject matter reflecting marketplace problems and considerations. Topics include the law of sales, secured transactions, commercial paper, contracts, and bankruptcy.

LAW 4043 **3 CR (3 LEC) IRREGULAR**
LAW OF BUSINESS ORGANIZATIONS

Prerequisite: LAW 2003 Legal Environment of Business and admission to the business program, or consent of instructor

Business-related legal subject matter reflecting marketplace problems and considerations. Topics include the law of corporations, partnerships, agency, and property.

LAW 4053 **3 CR (3 LEC) IRREGULAR**
LAW FOR ENTREPRENEURS

Prerequisites: LAW 2003 Legal Environment of Business and admission to the business program, or consent of instructor

Provides an overview of the key legal issues faced by entrepreneurs and senior managers as they attempt to start, grow and protect a for-profit concern. Topics include sources and methods of funding; developing and protecting intellectual property; ownership structures and entity choice; marshalling human resources, and operational liabilities. Course can also count as MKTG elective for marketing majors.

LAW 447V **1-3 CR (IND STU) IRREGULAR**
INDEPENDENT STUDY IN LAW

Prerequisites: admission to the business program, and consent of instructor and department head

Prerequisite or corequisite: may vary depending on topic

Individual problems or topics in law arranged in consultation with instructor. May be repeated for a maximum of six hours.

LAW 457V **1-3 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS IN LAW

Prerequisites: admission to the business program or consent of instructor

Prerequisite or corequisite: may vary depending on topic

Topics and current issues of critical importance to the field of Business Law. Specific topics and issues are announced in the

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

LEAD Leadership

LEAD 3133 3 CR (3 LEC) FALL, SPRING, SUMMER
ORGANIZATION ETHICS

Examines the dynamics of the workplace and personal ethics through the study of basic philosophical theories. Introduction to issues that discriminate right and wrong in organizations. The learner is exposed to various scenarios and issues in organizations.

LEAD 3603 3 CR (3 LEC) FALL, SPRING, SUMMER
FOUNDATIONS OF ORGANIZATIONAL LEADERSHIP

Prerequisite: junior standing or consent of department head

Provides an introduction to leadership through the examination of historical perspectives and theories. Examines contemporary issues impacting leaders in a technology-driven global environment.

LEAD 3623 3 CR (3 LEC) FALL, SPRING, SUMMER
PROFESSIONAL COMMUNICATION

Prerequisite: junior standing or consent of department head

Communication in the workplace within a framework of organizational ethics. Essential components and course content include: listening, verbal and nonverbal communication, written expression, and professional presentation methods.

LEAD 3633 3 CR (3 LEC) FALL, SPRING, SUMMER
LEADERSHIP THEORY

Prerequisite: LEAD 3603 Foundations of Organizational Leadership

Identifies and describes the major theories and models of leadership. Evaluation of case studies to determine personal leadership approaches.

LEAD 3643 3 CR (3 LEC) FALL, SPRING
GROUP DYNAMICS

Prerequisite: LEAD 3603 Foundations of Organizational Leadership or consent of department head

Examines the patterns exhibited in the group environment. Dynamics of communication, perception, norms, and deviance in group membership are reviewed in their relationship to group leadership and development. Case studies will be used to apply group theory to applicable measures of effective strategies in predicting group dynamics.

LEAD 3653 3 CR (3 LEC) FALL, SUMMER
CREATIVE LEADERSHIP

Prerequisite: LEAD 3603 Foundations of Organizational Leadership

Focuses on the core leadership competency of creativity including higher-level thinking, decision-making, and problem-solving. Emphasis will be on cognitive behavior and affective skills, strategic thinking, and creative thinking.

LEAD 3683 3 CR (3 LEC) FALL, SPRING, SUMMER
LEADERSHIP SYSTEMS

Prerequisite: LEAD 3603 Foundations of Organizational Leadership

Examines the details of how companies work, focusing on operating costs, gross revenue, inventory, and cash flow. Illustrates how organizations can rid themselves of "learning disabilities" that threaten productivity and success by selecting and adopting new strategies of learning.

LEAD 4403 3 CR (3 LEC) FALL, SPRING, SUMMER
NONPROFIT ORGANIZATIONS

Prerequisites: LEAD 3603 Foundations of Organizational Leadership and one of the following: senior standing or consent of department head

Provides an orientation to the nonprofit sector. The roles of boards, identified leadership, and stakeholders will be reviewed from fiscal, legal, and moral perspectives. Case studies will be used to examine the relationships between the nonprofit sector and government, business, and community.

LEAD 4423 3 CR (3 LEC) SPRING
CONTEMPORARY INFLUENCES ON LEADERSHIP

Prerequisite: LEAD 3603 Foundations of Organizational Leadership

Focuses on work of contemporary thought leaders who have been influential in the last decade. Students will review and evaluate leadership literature.

LEAD 4663 3 CR (3 LEC) FALL, SPRING, SUMMER
PERSONAL DEVELOPMENT

Prerequisite: LEAD 3603 Foundations of Organizational Leadership

Focuses on intrapersonal and interpersonal skill development required for advancement in leadership. Development of the leadership character is a major concern of the course including ethical challenges, dealing with failure, development of compassion, and self-regulation.

LEAD 4673 3 CR (3 LEC) FALL, SPRING
GLOBAL COMPLEXITIES

Prerequisite: LEAD 3603 Foundations of Organizational Leadership

Develops global competency, citizenship, and leadership through the study of current issues and future forecasts. Focuses on personal responsibility in a global context of business. Special emphasis is placed on the local impact of global issues and events.

LEAD 4693 3 CR (3 LEC) FALL, SPRING
DIMENSIONS OF ORGANIZATIONAL LEADERSHIP – CAPSTONE

Prerequisites: LEAD 3603 Foundations of Organizational Leadership and consent of instructor

Creation of an "action-learning" plan that provides an opportunity to integrate leadership concepts and practices covered in the core coursework with work experiences. Students design and implement a capstone project culminating in a written and oral presentation. This course must be taken in the student's final enrollment period.

LEAD 490V 1-3 CR (VARIABLE) FALL, SPRING, SUMMER
SPECIAL TOPICS

Prerequisite: LEAD 3603 Foundations of Organizational Leadership and consent of department head

Topics and current issues of critical importance to the organizational leadership field. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated, when topics differ for a total of nine hours.

LEAD 493V 1-3 CR (IND STU) IRREGULAR
ORGANIZATIONAL LEADERSHIP: INDEPENDENT STUDY

Prerequisite: LEAD 3603 Foundations of Organizational Leadership and consent of instructor

Individual topics in organizational leadership arranged in consultation with instructor. May be repeated, when topics differ for a total of nine hours.

LEAD 495V 1-3 CR (INT/PRAC) FALL, SPRING, SUMMER
ORGANIZATIONAL LEADERSHIP INTERNSHIP

Prerequisite: LEAD 3623 Professional Communication and consent of instructor

Supervised professional-level assignment with an organization, firm, government agency, or not-for-profit entity within the selected area of focus. May be repeated, when topics differ for a total of nine hours.

LPN Practical Nursing

LPN 1187 7 CR (3 LEC, 4 LAB, 6 CLIN) SPRING
FUNDAMENTALS I

Prerequisites: BIOL 1433/1431 Basic Anatomy and Physiology/Laboratory, HLTH 1473 Medical Terminology and BLS Certification - American Heart Association BLS for Healthcare Providers

An eight week course that introduces the fundamental principles, skills, attitudes, and common procedures used to give safe nursing care. Included are the basic concepts of vocational, legal, and ethical nursing issues and concepts of mental health, nutrition, and pharmacology.

LPN 1197 7 CR (3 LEC, 4 LAB, 6 CLIN) SPRING
FUNDAMENTALS II

Prerequisites: LPN 1187 Fundamentals I and BLS Certification - American Heart Association BLS for Healthcare Providers

An eight week course that introduces the conditions of illness, including advanced concepts of mental health and pharmacology. Clinical laboratory experience includes care of the geriatric patient, long-term and the hospice patient with acute and chronic illnesses.

LPN 1217 7 CR (3 LEC, 4 LAB, 6 CLIN) FALL
MEDICAL/SURGICAL I

Prerequisites: LPN 1197 Fundamentals II and BLS Certification - American Heart Association BLS for Healthcare Providers

An eight week course that includes theory/clinical experience in nursing care needed by patients in acute or sub-acute, or convalescent stages of illness. Emphasis is placed on acute and chronic medical conditions and common surgical conditions including basic principles of first aid.

LPN 1227 7 CR (3 LEC, 4 LAB, 6 CLIN) FALL
MEDICAL/SURGICAL II

Prerequisites: LPN 1217 Medical/Surgical I and BLS Certification - American Heart Association BLS for Healthcare Providers

An eight-week course that includes theory/clinical experience in nursing care needed by patients in acute, sub-acute, or convalescent stages of illness. Emphasis is placed on acute and chronic medical conditions and more complex surgical conditions including basic principles of first aid.

LPN 1237 7 CR (3 LEC, 4 LAB, 6 CLIN) SPRING
MEDICAL/SURGICAL III WITH SPECIALTIES

Prerequisites: LPN 1227 Medical/Surgical II and BLS Certification - American Heart Association BLS for Healthcare Providers

A ten-week course that includes theory and clinical experience in nursing care of the new mother and infant with emphasis on the healthy pregnancy cycle and the healthy newborn. Theory and clinical experience in the care of mothers and pediatric clients with emphasis on meeting acute and chronic needs. Includes growth and developmental concepts and procedures for new mothers and pediatric clients. Also included are theory and clinical experience of mothers and pediatric clients with medical, surgical, and mental health conditions.

MACH Computer Integrated Machining

MACH 1234 4 CR (2 LEC, 4 LAB) FALL
MACHINE TECHNOLOGY I

Introduces the care and operation of basic manual machine tools and measuring instruments such as drill presses, lathe cutting tools, vertical milling machine tools, and bench grinders. Basic blueprint reading and shop safety procedures are also introduced.

MACH 1334 4 CR (2 LEC, 4 LAB) SPRING
MACHINE TECHNOLOGY II

Prerequisite: MACH 1234 Machine Technology I

Introduces information regarding the set-up and operation of industrial milling and drilling machines. Topics include precision part layout and inspection of, drilling, tapping, reaming, boring and surface finishes.

MACH 1414 4 CR (2 LEC, 4 LAB) FALL
GEOMETRIC DIMENSIONS AND TOLERANCES

Introduction to blueprint reading, measuring tools, gaging and parts inspection, measurement techniques, geometric dimension and tolerance symbols, callouts, and control frames. Calibration and measurement system analysis are also presented.

MACH 1424 4 CR (2 LEC, 4 LAB) FALL
INTRODUCTION TO COMPUTER AIDED DESIGN (CAD)

Provides instruction on Computer Aided Design (CAD) with reference to principles of computer aided machining (CAM).

MACH 1434 4 CR (2 LEC, 4 LAB) SPRING
INTRODUCTION TO COMPUTER AIDED MACHINING (CAM)

Prerequisite: MACH 1424 Introduction to Computer Aided Design (CAD)

Provides concepts and practices on computer aided machining (CAM) including creating 2D and 3D geometric models and creating computer numerical control (CNC) programs.

MACH 1444 4 CR (2 LEC, 4 LAB) SPRING
METALS AND ALLOYS

Provides instruction on chemical, physical, and mechanical properties of different metals.

MACH 1454 4 CR (2 LEC, 4 LAB) FALL
COMPUTER NUMERICAL CONTROL (CNC) I

Prerequisite: MACH 1234 Machine Technology I

Designed to introduce computer numerical control methods of the machine industry. Fundamentals include the Cartesian rectangular coordinate system, and part programming using both absolute and incremental methods.

MACH 1554 4 CR (2 LEC, 4 LAB) SPRING
COMPUTER NUMERICAL CONTROL (CNC) II

Prerequisite: MACH 1454 Computer Numerical Control I

Designed to expand the student's knowledge and skills in computer numerical control manufacturing, with attention to job planning, multiple part setups, advanced programming, tool changes within the program, and inspection and control of the manufactured part. The proper use of coolants, spindle speeds and feed rates as applied to computer numerical control will also be covered.

MACH 2202 2 CR (6 INT/PRAC) FALL, SPRING, SUMMER
COMPUTER INTEGRATED MACHINING CAPSTONE

Prerequisite: consent of instructor

Intended to provide the student an opportunity to demonstrate skill proficiency in a real-world work environment. Activities in the capstone may vary according to appropriate application of the learning germane to the specific work environment selected by the student and respective faculty member. The faculty member and assigned business representative will jointly supervise the capstone experience

MACH 290V 1-5 CR (VARIABLE) IRREGULAR
MACHINING: SPECIAL TOPICS

Prerequisite: consent of department head

Special instruction for new and emerging topics in machining that are not otherwise covered in the curriculum. Topics in these emerging technologies will be offered periodically based on the recognized needs of the field and the availability of instruction. May be repeated for a total of five hours

MACH 299V 1-3 CR (VARIABLE) IRREGULAR
MACHINING: SPECIAL PROJECTS

Prerequisite: consent of department head

Designed for the advanced machining student who has completed or is enrolled in all other appropriate machining courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated, when topics differ, for a total of five hours.

MATH Mathematics

On a degree plan or in a course description, there may be the statement "MATH 1403 or higher". This means completion of a math class that has MATH 1403 as the prerequisite will satisfy the requirement.

MATH 0201 1 CR (1 LEC) FALL, SPRING
COLLEGE MATH DRILL

Prerequisite: MATH 0233 Beginning Algebra, or MATH 0304 Beginning and Intermediate Algebra, or required placement score

Corequisite: MATH 1303 College Mathematics and Quantitative Literacy

Supports and enhances math skills by providing instructional time for developmental math skills directly needed for MATH 1303.

MATH 0233 3 CR (3 LEC) IRREGULAR
BEGINNING ALGEBRA

Prerequisite: required placement score

Introduces student to basic concepts of beginning algebra. Consists of three major sections, linear equations and inequalities, graphing and functions, and polynomials.

MATH 0304 4 CR (4 LEC) FALL, SPRING
BEGINNING AND INTERMEDIATE ALGEBRA

Prerequisite: required placement score

Introduces students to the basic concepts of algebra. Consists of five major sections: linear equations and inequalities, exponents and polynomials, factoring and rational functions, radical functions, and graphing.

MATH 0301 1 CR (1 LEC) FALL, SPRING, SUMMER
COLLEGE ALGEBRA DRILL

Prerequisite: MATH 0304 Beginning and Intermediate Algebra (P1 or P2 grade) or required placement score

Corequisite: MATH 1403 College Algebra

Supports and enhances math skills by providing additional instructional support and practice time for students to develop skills needed for college-level mathematics courses.

MATH 1303 3 CR (3 LEC) FALL, SPRING, SUMMER
COLLEGE MATHEMATICS AND QUANTITATIVE LITERACY

Prerequisite: MATH 0233 Beginning Algebra, or MATH 0304 Beginning and Intermediate Algebra, or required placement score

A strong emphasis will be placed on critical thinking, mathematical modeling, and technology. Topics include finance, statistics and probability, concepts of functions, and quantities and measures. A comprehensive mathematics course designed for general education core and for degrees not requiring College Algebra. (ACTS: MATH 1003)

MATH 1333 3 CR (3 LEC) FALL, SPRING
NUMBER SENSE I

Prerequisites: MATH 1403 College Algebra or required placement score

Designed for prospective early childhood teachers. Students study the connections among elementary numerical ideas and the instantiation of pedagogical methods used by current practitioners. The mathematical content domains involve common core standards concepts associated with number theory, problem solving, probability, statistics, and computation involving whole numbers and integers.

MATH 1343 3 CR (3 LEC) FALL, SPRING
NUMBER SENSE II

Prerequisites: MATH 1333 Number Sense I

Study of connections among elementary numerical ideas and the instantiation of pedagogical methods used by current practitioners. The mathematical content domains involve common core standards concepts associated with problem solving, functions, and computation involving integers, fractions, decimals, and percents. Students will study the foundations of algebraic reasoning.

MATH 1403 3 CR (3 LEC) FALL, SPRING, SUMMER
COLLEGE ALGEBRA

Prerequisite: MATH 0304 Beginning and Intermediate Algebra (P1 grade) or required placement score

Modeling and problem solving using linear, quadratic, polynomial, rational functions, exponential, and logarithmic functions, equations, and inequalities; graphing, systems of equations, and matrices. (ACTS: MATH 1103)

MATH 1404 4 CR (3 LEC, 2 LAB) IRREGULAR
COLLEGE ALGEBRA (EXTENDED FORMAT)

Prerequisite: MATH 0304 Beginning and Intermediate Algebra (C or above) or MATH 1303 College Mathematics and Quantitative Literacy or required placement score

Covers the same topics as the traditional College Algebra, but in an expanded time format. This allows for increased guided learning activities and learner/instructor interaction. Modeling and problem solving using linear, quadratic, polynomial, rational functions, exponential, and logarithmic functions, equations,

and inequalities; graphing, systems of equations, and matrices. Course will meet mathematics requirement in all degree plans that specify MATH 1403. (ACTS: MATH 1103)

MATH 1453 3 CR (3 LEC) FALL, SPRING, SUMMER
PLANE TRIGONOMETRY

Prerequisite: MATH 1403 College Algebra or required placement score

The theory of trigonometric and circular functions and the study of their applications. Topics include graphs, identities, and equations involving trigonometric functions, inverse trigonometric functions, triangles, vectors, polar coordinates, and polar representations of complex numbers. (ACTS: MATH 1203)

MATH 1715 5 CR (5 LEC) IRREGULAR
PRECALCULUS MATHEMATICS

Prerequisite: MATH 1403 College Algebra or required placement score

Designed for students in majors requiring MATH 2804 Calculus I, course covers advanced topics from algebra specifically necessary for calculus and covers the concepts of plane trigonometry, emphasizing circular functions of real numbers. Emphasizes the creation and analysis of mathematical formulas to model physical situations. Concepts covered include polynomial, rational, exponential, logarithmic, and trigonometric functions and equations, inverse functions, complex numbers in rectangular and trigonometric form, systems of equations, matrices, determinants, triangles, identities, and vectors. (ACTS: MATH 1305)

MATH 2233 3 CR (3 LEC) FALL, SPRING
GEOMETRY AND MEASUREMENT I

Prerequisite: MATH 1343 Number Sense II

Students study the connections among geometric and measurement ideas and the instantiation of pedagogical methods used by current practitioners at the Kindergarten through 6th grade level. The mathematical content domains involve common core standards concepts associated with geometry, probability, statistics, measurement, NCTM standards, and technology.

MATH 2243 3 CR (3 LEC) FALL, SPRING
GEOMETRY AND MEASUREMENT II

Prerequisite: MATH 2233 Geometry and Measurement I

Students study the connections among geometric and measurement ideas and the instantiation of pedagogical methods used by current practitioners at the Kindergarten through 6th grade level. The mathematical content domains involve common core concepts associated with congruence, area, volume, and topology using transformational geometry, coordinate geometry, spherical geometry and traditional Euclidean geometry.

MATH 2333 3 CR (3 LEC) FALL
STRUCTURES OF ARITHMETIC

Prerequisite: MATH 1403 College Algebra or higher MATH or required placement score

Designed for prospective middle level teachers. Students study pedagogical methods used by current practitioners. Content includes computation designed to bridge from whole numbers to the real number system as well as functions, probability, and statistics.

MATH 2343 3 CR (3 LEC) FALL
INFORMAL GEOMETRY

Prerequisite: MATH 1403 College Algebra or higher MATH or required placement score

Designed for middle level teachers. Students study pedagogical methods used by current practitioners. Content includes traditional Euclidean geometry, transformational geometry, coordinate geometry, congruence, area, volume, and surface area.

MATH 2403 3 CR (3 LEC) FALL, SPRING, SUMMER
SURVEY OF CALCULUS

Prerequisite: MATH 1403 College Algebra or required placement score

Designed for students in majors other than the natural sciences, especially business and economics. It introduces the basic concepts of differential and integral calculus and their applications to algebraic, exponential, and logarithmic functions that occur in economics and marketing situations. This course does not satisfy degree requirements for mathematics, science, or engineering majors, nor does it satisfy the prerequisite for MATH 2854 Calculus II. (ACTS: MATH 2203)

MATH 2443 3 CR (3 LEC) FALL, SPRING
DISCRETE MATHEMATICS I

Prerequisite or corequisite: MATH 2804 Calculus I or MATH 2804H Calculus I (Honors)

Develops the foundations of discrete mathematics, including its applications to computer science and information technology. Serves as an introduction to more advanced material necessary in higher level mathematics and computer science courses. Topics include a study of logic, sets, relations, functions, algorithms, counting methods, graph theory and trees, and basic number theory.

MATH 2804 4 CR (4 LEC) FALL, SPRING, SUMMER
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)

MATH 2804H 4 CR (4 LEC) IRREGULAR
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.

MATH 2854 4 CR (4 LEC) FALL, SPRING, SUMMER
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 2505)

MATH 2904 4 CR (4 LEC) FALL, SPRING, SUMMER
CALCULUS III

Prerequisite: MATH 2854 Calculus II

Vectors and basic vector operations in two and three dimensions, lines and planes in space, cylindrical, and spherical coordinate systems, vector valued functions, functions of several variables, partial derivatives, multiple integration, and line and surface integrals. (ACTS: MATH 2603)

MATH 2914 4 CR (4 LEC) FALL, SPRING, SUMMER
DIFFERENTIAL EQUATIONS

Prerequisite: MATH 2854 Calculus II

Topics include first order equations, first order and higher order linear equations, Laplace transforms, systems of linear equations, and eigenvectors.

MATH 3104 4 CR (4 LEC) FALL
FOUNDATIONS OF MATHEMATICS

Prerequisite: MATH 2443 Discrete Mathematics I

Prerequisite or corequisite: MATH 2854 Calculus II

Introduces fundamental concepts that underlie all branches of mathematics, preparing students for advanced theoretical courses in mathematics. The primary emphasis will be learning to write valid proofs of mathematical propositions. Topics include propositional calculus, sets, basic number theory, order and equivalence relations, cardinality, field axioms, limits, and complex numbers.

MATH 3203 3 CR (3 LEC) FALL, SPRING
APPLIED LINEAR ALGEBRA

Prerequisite or corequisite: MATH 2804 Calculus I or MATH 2804H Calculus I (Honors)

Systems of linear equations, vector spaces, linear transformations, matrices, and determinants.

MATH 3303 3 CR (3 LEC) IRREGULAR
DISCRETE MATHEMATICS II

Prerequisite: MATH 2443 Discrete Mathematics I

Topics include a study of graph theory, trees, decision trees, critical path analysis, languages, Turing machines, combinatorics, efficiency of algorithms, logic, Boolean algebra, and social choice.

MATH 3403 3 CR (3 LEC) SPRING
COLLEGE GEOMETRY

Prerequisite: MATH 2443 Discrete Mathematics I

Classification and properties of geometric figures, Euclidean plane geometry as an axiomatic system, geometric proof, constructions, symmetry, geometric transformations, analytic geometry, measurement, three-dimensional Euclidean geometry, finite geometries, problem solving, elementary non-Euclidean geometries.

MATH 3603 3 CR (3 LEC) SPRING
MATHEMATICAL MODELING I

Prerequisite: MATH 2914 Differential Equations

Introduction to the mathematical modeling process and application of this process to problems that may be modeled with calculus or lower-level mathematics. Emphasis will be placed on connections of mathematics to application areas such as business, industry, economics, physical sciences, biological sciences, medicine, and social sciences. Students will integrate computer technology in generating reports on their projects.

MATH 3803 3 CR (3 LEC, 1 LAB) SPRING
FOUNDATIONS OF ALGEBRA

Prerequisite: MATH 2333 Structures of Arithmetic or MATH 2443 Discrete Mathematics I

Introduces fundamental concepts that underlie all branches of mathematics with an emphasis on content that builds algebraic reasoning. Students will use technological resources and current research to develop a deeper understanding of concepts ranging from middle level to Algebra I. Requires clinical experience in a local school.

MATH 3813 3 CR (3 LEC) ODD FALL
MATHEMATICS PEDAGOGY FOR SPATIAL RELATIONS

Prerequisite: MATH 3403 College Geometry

Designed for pre-service or in-service secondary mathematics teachers. Covers selected mathematics topics, technological resources, and methods of teaching relevant to the secondary mathematics curriculum with an emphasis on engaging students in concepts ranging from basic spatial relations to rigorous proof in secondary geometry. Candidates will also engage in mathematics education research and study literacy-related strategies as they relate to the mathematical content

MATH 3823 3 CR (3 LEC, 1 LAB) EVEN FALL
MATHEMATICS PEDAGOGY FOR UPPER SECONDARY MATHEMATICS

Prerequisite: MATH 2854 Calculus II

Designed for pre-service or in-service secondary mathematics teachers. Covers selected mathematics topics, technological resources, and methods of teaching relevant to the secondary mathematics curriculum with an emphasis on engaging students in concepts ranging from advanced algebra to calculus. Candidates will engage in mathematics education research and study literacy-related strategies relating to the mathematical content. Requires classroom tutoring of secondary school students in a local area public school for a minimum of fifteen hours.

MATH 3833 3 CR (3 LEC) ODD SPRING
MATHEMATICS PEDAGOGY FOR DATA ANALYSIS

Prerequisite: STAT 2503 Probability and Statistics I or STAT 3503 Applied Mathematical Statistics I

Designed for pre-service or in-service secondary mathematics teachers. The course will cover selected mathematics topics, technological resources, and methods of teaching relevant to the secondary mathematics curriculum with an emphasis on engaging students in concepts of probability and statistics ranging from middle level to high school. Candidates will also engage in mathematics education research and study literacy-related strategies as it relates to the mathematical content.

MATH 3843 3 CR (3 LEC, 1 LAB) FALL
MATHEMATICS CURRICULUM, INSTRUCTION, AND ASSESSMENT

Prerequisites: MATH 2333 Structures of Arithmetic and MATH 2343 Informal Geometry, or MATH 2243 Geometry and Measurement II

Developmentally appropriate teaching strategies and support systems needed for introducing and developing the mathematical mind of the K-8 grade student. Consists of a classroom component and a field component.

MATH 3901 1 CR (1 LEC) SPRING
MATHEMATICS SEMINAR

Prerequisite: consent of instructor

Students will consider problems that cut across the boundaries of the standard courses and investigate general strategies of problem solving from several different branches of mathematics. Through active participation, students will discover new techniques for solving problems. In particular, students will learn strategies for approaching problems and identifying needed mathematical tools. The course will be graded pass/fail.

MATH 400V 1-4 CR (VARIABLE) IRREGULAR
SPECIAL TOPICS IN MATHEMATICS

Prerequisite: junior standing and consent of instructor

Specific subject areas or current topics of interest in pure or applied mathematics, mathematics education, history of mathematics, or statistics. Topics are designed to meet the interest of students, to take advantage of the areas of expertise of the department faculty or a visiting professor, or to investigate a current problem or latest development in a mathematical application. May be repeated, when topics differ, for a total of six hours.

MATH 4103 3 CR (3 LEC) IRREGULAR
ADVANCED LINEAR ALGEBRA

Prerequisite: MATH 3203 Applied Linear Algebra

Topics include general vector spaces, linear transformations, inner products, matrices and matrix algebra, eigenvalues, eigenvectors, bilinear forms, orthogonal and unitary transformations, systems of linear equations, and determinants.

MATH 4203 3 CR (3 LEC) FALL
HISTORY OF MATHEMATICS

Prerequisite: MATH 2854 Calculus II

The history of mathematics from ancient times to the twentieth century with emphasis on three aspects: the development of mathematics throughout the centuries, mathematics as a human endeavor, and the history of mathematics as an educational tool.

MATH 4303 3 CR (3 LEC) FALL
REAL ANALYSIS I

Prerequisite: MATH 3104 Foundations of Mathematics

An introduction to the theory of calculus of one and several variables, limits, continuity, sequences, differentiation, integration, measure theory, and infinite series. Includes a brief introduction to metric spaces and general topological spaces.

MATH 4403 3 CR (3 LEC) SPRING
ABSTRACT ALGEBRA

Prerequisite: MATH 3104 Foundations of Mathematics

A study of groups, rings, modules, and fields, subgroups, normal subgroups, quotient groups, abelian groups, groups of permutations, solvable and nilpotent groups, homomorphism, kernel, homomorphism groups, principal ideal domains, field extensions, and Galois theory.

MATH 4433 3 CR (3 LEC) IRREGULAR
GROUP THEORY

Prerequisite: MATH 4403 Abstract Algebra

Symmetric, alternating, and dihedral groups, direct sums and direct products, generators and relations, group actions, semi-direct products, the Sylow theorems, Sylow subgroups, nilpotent groups, solvable groups, homomorphism groups, fundamental theorem of finite abelian groups, automorphism groups, general linear groups, matrix representations of groups, and applications of group theory.

MATH 4443 3 CR (3 LEC) IRREGULAR
COMBINATORICS

Prerequisite: MATH 3104 Foundations of Mathematics

Provides an overview of many of the fundamental ideas of combinatorics. Topics include a study of graph theory, recursion and generating functions, inclusion-exclusion, combinatorial designs and geometries, and algebraic combinatorics.

MATH 4703 3 CR (3 LEC) IRREGULAR
NUMERICAL ANALYSIS

Prerequisite: MATH 2914 Differential Equations

Development, analysis, computer implementation and application of basic numerical algorithms for solving scientific problems. Topics include fundamentals of numerical computation, error analysis, numerical solutions of nonlinear equations, direct and iterative methods for solving linear systems, interpolation and approximation of functions, numerical differentiation and integration, and numerical solution of ordinary differential equations. Computer programming as well as the use of software packages is required.

MATH 4803 3 CR (3 LEC) IRREGULAR
COMPLEX ANALYSIS

Prerequisite: MATH 4303 Real Analysis I

An introduction to complex analysis. Topics will include the arithmetic, algebra, and geometry of the complex number system and the complex plane, elementary functions of a complex variable, limits, the derivative, the integral, Cauchy's Theorem, Cauchy's Integral Formula, the Maximum Modulus Theorem, and series representations for functions.

MATH 4853 3 CR (3 LEC) IRREGULAR
INTRODUCTION TO TOPOLOGY

Prerequisite: MATH 4303 Real Analysis I

An introductory study of both point-set and algebraic topology. Point-set concepts covered include open, closed, finite, countable, and uncountable sets, order, product, subspace, metric, and quotient topologies, continuous functions, open and closed maps, homeomorphisms, connectedness, and compactness. Algebraic concepts include homotopy, homomorphism, chain maps, fundamental groups, homotopy groups, covering spaces, and homology.

MATH 4913 3 CR (3 LEC) IRREGULAR
PARTIAL DIFFERENTIAL EQUATIONS

Prerequisite: MATH 2914 Differential Equations

Topics include first- and second-order equations, the method of characteristics, separation of variables, D'Alembert's solution, the heat, wave, and Laplace equations, Fourier series, and Sturm-Liouville problems.

MATH 4992 2 CR (8 IND STU) FALL, SPRING
SENIOR PROJECT

Prerequisite: mathematics major in senior standing or consent of instructor

The student will work with a faculty advisor on a research project in mathematics. Based on the interests of the student and the available expertise of the faculty, the project may involve research in pure mathematics, mathematics education, the history of mathematics, or an application of mathematics to another discipline.

MATH 495V 1-3 CR (IND STU) IRREGULAR
MATHEMATICS INDEPENDENT STUDY

Prerequisite: approval of Mathematics Undergraduate Research Committee

Student will work independently on an open question in pure or applied mathematics. The project may involve the discovery of new abstract results or the application of existing mathematics in a new way. May be repeated for a total of six hours.

MCOM
Media Communication

MCOM 1203 **3 CR (3 LEC) FALL**
INTRODUCTION TO MEDIA COMMUNICATION

A survey of media communication emphasizing its development, role in society, developing technology, and career options. Includes an overview of the media communication major/minor program.

MCOM 2223 **3 CR (3 LEC) FALL, SPRING**
COMMUNICATION THEORY

Prerequisite: MCOM 1203 Introduction to Media Communication or SPCH 1203 Introduction to Speech Communication

Basic theory in the foundation of human communication, including basics of perception, listening, verbal and nonverbal cues, persuasion, cultural awareness, and self-awareness in a variety of communication settings.

MCOM 2513 **3 CR (3 LEC) FALL**
MEDIA PRODUCTION

Prerequisite: MCOM 1203 Introduction to Media Communication

Fundamentals of media production focusing on technical and aesthetic practices in audio-visual media, single-camera techniques, and visual storytelling techniques.

MCOM 2613 **3 CR (3 LEC) FALL, SPRING**
WRITING ACROSS THE MEDIA

Prerequisite: MCOM 1203 Introduction to Media Communication

Preliminary instruction in writing for multiple old and new media outlets. Study in the principles of reporting information to the public, including news writing and interviewing, and journalistic style, in addition to the principles of visual rhetoric in order to produce multimedia texts for a variety of media outlets.

MCOM 3143 **3 CR (3 LEC) IRREGULAR**
SPECIAL TOPICS IN MEDIA COMMUNICATION

Prerequisite: MCOM 1203 Introduction to Media Communication

Study and work in varied topics related to the production and reception of mass communications. May be repeated once when topics differ.

MCOM 3213 **3 CR (3 LEC) SPRING**
VISUAL COMMUNICATION

Prerequisite: MCOM 2513 Media Production

A hands-on approach to visual communication as manifested in photography, films, television, advertisements, the Internet, and other visual media.

MCOM 3303 **3 CR (3 LEC) FALL**
SURVEY OF NEW MEDIA

Prerequisite: MCOM 2613 Writing Across the Media

A survey of the tools and practices of new media as it has evolved during and since the late 20th century. Introduces the implications of new media to journalism, knowledge acquisition and dissemination, politics, culture, and American society at large.

MCOM 3313 **3 CR (3 LEC) FALL**
MEDIA CRITICISM

Prerequisite: MCOM 2223 Communication Theory

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

MCOM 3503 **3 CR (3 LEC) SPRING**
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.

MCOM 3513 **3 CR (3 LEC) FALL**
THE CINEMATIC TRADITION

Prerequisite: MCOM 2513 Media Production

Theory and practice of cinematic storytelling with an emphasis on the various ways in which different film movements and styles utilize distinct narrative and stylistic devices to tell stories.

MCOM 3523 **3 CR (2 LEC, 2 LAB) IRREGULAR**
FILM WORKSHOP

Prerequisite: MCOM 1203 Introduction to Media Communication or consent of instructor

Digital film projects based upon emergent technology, styles, and developments where students assume one or many roles in a production team and work collaboratively. Course may be repeated once for a total of six credit hours, as project topics vary.

MCOM 3613 **3 CR (3 LEC) SPRING**
WRITING FOR NEW MEDIA

Prerequisite: MCOM 2613 Writing Across the Media

Methods of utilizing writing as a tool to transmit messages in a new media environment. The focus will be on emergent storytelling in both the current forms of online communication and the digital frontiers.

MCOM 3801 **1 CR (2 LAB) FALL, SPRING**
PRACTICUM

Prerequisite: MCOM 2613 Writing Across the Media or consent of instructor

Provides guidance while students learn to work as a team to create and publish media. Practicums are designed as short courses to complement offered curriculum and can include: basic journalism, radio broadcast, television broadcast, production skill building, or other subjects as needed. Course may be repeated for a total of three credit hours, as topics vary

MCOM 3803 **3 CR (3 LEC) IRREGULAR**
DIGITAL GAMES AND SIMULATIONS

Prerequisite: MCOM 1203 Introduction to Media Communication or consent of instructor

History, design, development, and distribution of digital games. Focus is on ethics, controversies, economics, and societal impact of the gaming industry and subsequent development of a gaming/gamer 'subculture'.

MCOM 3903 **3 CR (3 LEC) SPRING**
COMMUNICATION RESEARCH METHODS

Prerequisite: MCOM 2223 Communication Theory

Reviews research methods most commonly used in communication research. Practical experience in determining an appropriate research method following the assumptions of a chosen methodology to conduct research for a communication problem of their choosing.

MCOM 4203 3 CR (3 LEC) FALL
INTERCULTURAL COMMUNICATION

Prerequisite or corequisite: ENGL 2503 Language and Society or FORL 2503 Language and Society or MCOM 2613 Writing Across the Media

Illustrates and interprets theory and practice in communication across cultural boundaries, with emphasis on how culture reinforces various conventions of communication in business, the arts, and the media.

MCOM 4223 3 CR (3 LEC) IRREGULAR
BROADCASTING FOR NEW MEDIA

Prerequisite: MCOM 2513 Media Production

Examines tools and practices of broadcast media as it evolves, with applications for mass communication and journalism.

MCOM 4303 3 CR (3 LEC) SPRING
SOCIAL MEDIA AND GLOBALISM

Prerequisite: MCOM 2613 Writing Across the Media

Advanced examination of social media within a global context. Examines global communication, the digital divide, and less industrialized nations' calls for equality in global information flow and use of social media communication and technology. Addresses global issues in social media, communication, and culture.

MCOM 4503 3 CR (3 LEC) SPRING
THE DOCUMENTARY TRADITION

Prerequisite: MCOM 3213 Visual Communication

Examines the history and theory of documentary films and videos focusing on their various modes and approaches in relation to discursive formations of the self, others, and the historical world.

MCOM 4513 3 CR (3 LEC) FALL
SOCIAL MEDIA FOR PUBLIC RELATIONS

Prerequisite: MCOM 3213 Visual Communication

Explores the dynamics of social media in order to integrate the principles and practices of public relations with social media strategies and planning processes.

MCOM 4743 3 CR (3 LEC) IRREGULAR
ENTERTAINMENT LAW

Prerequisite: MCOM 1203 Introduction to Media Communication

Focuses on laws and regulations governing the media industry. Explores the interrelationship of the diverse media jobs, the impact of legal and regulatory agencies, and ethical problems faced by professionals in the entertainment industry.

MCOM 4801 1 CR (1 LEC) SPRING
SENIOR SEMINAR

Prerequisites: senior standing, and either MCOM 3303 Survey of New Media or MCOM 3613 Writing for New Media

Provides a capstone experience for media communication majors.

MCOM 493V 1-3 CR (IND STU) IRREGULAR
INDEPENDENT PROJECT

Prerequisite: MCOM 1203 Introduction to Media Communication and consent of instructor

Focuses on creating a project or projects within a specific area of new media writing, such as websites, blogs, hypertexts, documentaries, series, or other long-form journalism.

MCOM 495V 1-6 CR (INT/PRAC) IRREGULAR
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

MEEG 2001 1 CR (2 LAB) FALL
CAD FOR ENGINEERING

Introduction to industry standards for graphical representation of objects, 2D presentations, and 3D modeling utilizing mechanical parametric modeling software.

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

Prerequisites: PHYS 2903 University Physics I, ENGN 2753 Engineering Statics, and MEEG 2001 CAD for Engineering.

Introduction to kinematics and kinetics of mechanisms, static and dynamic forces, and gears and cam design and analysis.

MEEG 2303 3 CR (3 LEC) FALL
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.

MEEG 2703 3 CR (3 LEC) FALL, SPRING
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

MGMT 1201 1 CR (1 LEC) FALL, SPRING
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 business program.

MGMT 1203 3 CR (3 LEC) FALL, SPRING
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.

MGMT 2103 **3 CR (3 LEC) IRREGULAR**
BASIC BUSINESS COMPUTING

Introduces the various productivity tools available in the Microsoft Office suite. Emphasis is on the functionality of Microsoft Excel, but basics of Word, Power Point, and Access are addressed. Topics are presented and applied in a business context.

MGMT 2203 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO INTERNATIONAL BUSINESS

Emphasizes the interdependence of countries and the changing business trends in the global environment. Students are introduced to world geography, socio-politics, global institutions, monetary and economic systems, trade and investment, and ways of entering new markets.

MGMT 2863 **3 CR (3 LEC) FALL, SPRING**
BUSINESS COMMUNICATIONS

Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition and SPCH 1203 Introduction to Speech Communication

The theories and principles of good oral, written, interpersonal, and group communication for business are studied. Simulated and real-world communication problems are used to emphasize the effect organizational settings have on the communication process. (ACTS: BUS 2013)

MGMT 2963 **3 CR (3 LEC) IRREGULAR**
BUSINESS STATISTICS

Prerequisite: MATH 1303 College Mathematics and Quantitative Literacy or higher MATH course

Prerequisite or corequisite: demonstrated competency in business computing as defined by the business program

Statistical methods used in studying business and economic data, focusing on measures of central tendency and dispersion, probability, sampling, statistical inference, estimation, hypothesis testing, index numbers, regression, and correlation. (ACTS: BUS 2103)

MGMT 3033 **3 CR (3 LEC) SPRING**
NEW VENTURE CREATION

Prerequisite: admission to the business program or consent of instructor for majors outside of the business program

Prerequisites or corequisites: MKTG 3013 Principles of Marketing Management, FIN 3713 Business Finance, and MGMT 3523 Operations Management

Focuses on entrepreneurship and new venture creation as an essential business function. Course materials address the needs of start-up businesses.

MGMT 3133 **3 CR (3 LEC) FALL, SPRING**
SOCIAL RESPONSIBILITY AND ETHICS IN BUSINESS

Prerequisite: admission to the business program or consent of instructor

Introduces students to methods used in business case analysis, issues entailed in business firms' responsibilities to stakeholders, and frameworks used to identify ethical dilemmas and make appropriate decisions.

MGMT 3153 **3 CR (3 LEC) FALL, SPRING**
ORGANIZATIONAL BEHAVIOR

Prerequisite: admission to the business program or consent of instructor

An interdisciplinary analysis of the relationships of individuals and groups within the context of the organization, blending concepts drawn from psychology, sociology, philosophy, and communication theory with basic managerial concepts.

MGMT 3163 **3 CR (3 LEC) FALL**
FAMILY BUSINESS MANAGEMENT

Prerequisite: admission to the business program or consent of instructor

Introduces the unique challenges and issues of the family-owned business.

MGMT 3173 **3 CR (3 LEC) FALL, SPRING**
HUMAN RESOURCE MANAGEMENT

Prerequisite: admission to the business program or consent of instructor

Examines the human resource function within organizations from a strategic perspective. Emphasis placed on staffing, compensation, development, performance management, employee relations, safety and health, and the legal environment.

MGMT 3203 **3 CR (3 LEC) SPRING**
CROSS CULTURAL RELATIONS

Prerequisites: admission to the business program or consent of instructor

Studies how organizations, both profit and not-for-profit, deal with people of different cultures internally and externally. Emphasizes how cultural sensitivity and awareness of different perceptions, values and traditions are critical for success. Students come to understand these differences and learn not to rely on self-referential criteria.

MGMT 3513 **3 CR (3 LEC) SPRING**
BUSINESS ANALYTICS

Prerequisites: admission to the business program or consent of instructor

Introduction to the concepts and tools of analytics to gain insights and improve the quality of decisions. Covers descriptive, predictive, and prescriptive analytics, and exposes students to data manipulation and modeling for managerial decision-making.

MGMT 3523 **3 CR (3 LEC) FALL, SPRING**
OPERATIONS MANAGEMENT

Prerequisites: admission to the business program or consent of instructor

Introduces students to the operations function in manufacturing and services. Emphasis on decision making for continuous improvement of systems and processes for producing goods and services in a globally competitive environment focused on meeting customer needs in dynamic supply chains.

MGMT 3543 **3 CR (3 LEC) FALL**
GLOBAL SUPPLY CHAIN MANAGEMENT

Prerequisites: MGMT 3523 Operations Management and MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

An examination of Global Supply Chain Management as an integrated approach to coordinating supply and demand management within and across companies/partners domestically and internationally to improve customer value and insure the firms' survival.

MGMT 3613 **3 CR (3 LEC) FALL, SPRING**
LEADERSHIP

Prerequisites: MGMT 3153 Organizational Behavior and admission to the business program, or consent of instructor

Leadership processes and application at the organization, group, and individual levels. Emphasis on team activities.

MGMT 3913 **3 CR (3 LEC) FALL, SPRING**
DECISION SUPPORT SYSTEMS

Prerequisites: admission to the business program or consent of instructor

Integrates the student's business knowledge, skills, and abilities with information technology systems requirements to manage and enable IT systems to support organization business decision processes. Provides a clear understanding of information technology (IT) in supporting and enabling the management and decision making in organizations, both now and in the future.

MGMT 4063 **3 CR (3 LEC) FALL**
LAUNCHING A SMALL ONLINE BUSINESS

Prerequisite: admission to the business program or consent of instructor

Introduces the process of starting and operating a small web-based business. Surveys income-generating business models including the challenges and advantages of each and introduces the basic tools and approaches used to design, implement and grow a business online.

MGMT 4153 **3 CR (3 LEC) SPRING**
STRATEGIC COMPENSATION

Prerequisite: admission to the business program and MGMT 3173 Human Resource Management, or consent of instructor

Analyzes how compensation and benefits systems can support an organization's strategy.

MGMT 4163 **3 CR (3 LEC) SPRING**
SMALL BUSINESS MANAGEMENT

Prerequisites: ACCT 2813 Principles of Managerial Accounting, MGMT 3523 Operations Management, MKTG 3013 Marketing

The application of management, marketing, and finance to small business. The course addresses practical aspects of planning and organization, marketing, human resources, and financial control.

MGMT 4183 **3 CR (3 LEC) FALL**
HUMAN RESOURCES STAFFING

Prerequisite: admission to the business program and MGMT 3173 Human Resource Management, or consent of instructor

Provides an overview of the issues, processes, practices, and policies involved in staffing organizations.

MGMT 4203 **3 CR (3 LEC) FALL**
INTERNATIONAL MANAGEMENT

Prerequisites: MGMT 3153 Organizational Behavior and admission to the business program, or consent of instructor

Explores political strategies, challenges of operating in different cultures, and challenges in designing effective organizational structures for multinational business operations. Lectures, case studies, and in-class simulations are used to evaluate strategies for launching international operations, leveraging technology and knowledge for strategic advantage, and coordinating activities of geographically dispersed affiliates.

MGMT 447V **1-3 CR (IND STU) IRREGULAR**
INDEPENDENT STUDY IN MANAGEMENT

Prerequisites: Admission to the business program, MGMT 3153 Organizational Behavior, and approval of the instructor and department head

Prerequisite or corequisite: May vary depending on topic

Individual problems or topics in management arranged in consultation with instructor. May be repeated for a total of six hours.

MGMT 457V **1-3 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS IN MANAGEMENT

Prerequisites: Admission to the business program or consent of instructor

Prerequisite or corequisite: May vary depending on topic

Topics and current issues of critical importance to the field of management. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a maximum of 9 total hours.

MGMT 4613 **3 CR (VARIABLE) SPRING**
COMMUNITY LEADERSHIP

Prerequisite: MGMT 3613 Leadership, or consent of instructor

Focuses on the application of leadership traits and processes to service learning projects. Students will work in teams to carry out a service project that they design and plan. Addresses use of student portfolios in self-reflection process. Emphasis on group and mentor activities.

MGMT 4813 **3 CR (3 LEC) FALL, SPRING, SUMMER**
STRATEGIC MANAGEMENT

Prerequisites: FIN 3713 Business Finance, MGMT 3153 Organizational Behavior, MGMT 3133 Social Responsibility and Ethics in Business, and MKTG 3013 Principles of Marketing Management and admission to the business program

Study of administrative processes under conditions of uncertainly, including an integrating analysis applied to all fields of business. Special emphasis given to policy determination at the management level. Course must be taken in residence at UAFS.

MILS Military Science - Army ROTC

The United States Army offers the Military Science-Army ROTC program for interested UAFS students. Scholarships and financial assistance are available for interested, qualified students. For program and scholarship information, contact the UAFS Army ROTC office at (479) 788-7522. Interested students can enroll for courses through Student Advisement and Career Services.

MILS 1021 **1 CR (3 ACT) FALL**
BASIC PHYSICAL CONDITIONING I

Practical application of the principles of the Army Physical Readiness Training (PRT) Program.

MILS 1022 **2 CR (1 LEC, 2 LAB) FALL**
INTRODUCTION TO THE ARMY AND CRITICAL THINKING

Fundamental components of service as an officer. Introduction to organization, values, ethics, personal development, and the role of the Army.

MILS 1031 **1 CR (3 ACT) SPRING**
BASIC PHYSICAL CONDITIONING II

Army Physical Readiness Training (PRT) Program to develop stamina, flexibility, coordination, speed, and upper body strength and to enhance lifestyle.

MILS 1032 **2 CR (1 LEC, 2 LAB) SPRING**
INTRODUCTION TO THE PROFESSION OF ARMS

Prerequisite: MILS 1022 Introduction to the Army and Critical Thinking or consent of department head

Overview of basic leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Students explore dimensions of leadership attributes and core leader competencies in the context of practical, hands-on, and interactive exercises.

MILS 2022 **2 CR (2 LEC, 2 LAB) FALL**
FOUNDATIONS OF LEADERSHIP I

Prerequisite: MILS 1032 Introduction to the Profession of Arms or consent of department head

Overview of the dimensions of creative and innovative tactical leadership strategies and styles. Examines team dynamics and leadership theories that form the basis of the Army Leadership framework. Students practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs.

MILS 2032 **2 CR (2 LEC, 2 LAB) SPRING**
FOUNDATIONS OF LEADERSHIP II

Prerequisite: MILS 2022 Foundations of Leadership I or consent of department head

Examines the challenges of leading tactical teams in the operation environment. Highlights dimensions of operation orders, terrain analysis, and patrolling. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations.

MILS 3003 **3 CR (3 LEC, 2 LAB) FALL**
ADAPTIVE TEAM LEADERSHIP

Prerequisite: MILS 2022 Foundations of Leadership I or consent of instructor

Study, practice, and evaluate adaptive leadership skills as they are presented with challenging scenarios related to squad tactical operations. Students receive systematic and specific feedback on their leadership attributes and actions.

MILS 3013 **3 CR (3 LEC, 2 LAB) SPRING**
APPLIED TEAM LEADERSHIP

Prerequisite: MILS 3003 Adaptive Team Leadership

Uses increasingly intense situational team leadership challenges to build cadet awareness and skills in leading tactical operations at the small unit level. Review aspects of full spectrum operations. Conduct military briefings and develop proficiency in the operation orders process. The focus is on exploring, evaluating, and developing skills in decision-making, persuading, and motivating team members in the contemporary operating environment.

MILS 4003 **3 CR (3 LEC, 2 LAB) FALL**
MISSION COMMAND AND THE ARMY PROFESSION

Prerequisite: MILS 3013 Applied Team Leadership

Focuses on the challenges of mission command and how it is used in Army operations. Provides an in-depth understanding of the Army profession and what it means to be a military professional.

MILS 4013 **3 CR (3 LEC, 2 LAB) SPRING**
MISSION CONTROL AND THE COMPANY GRADE OFFICER

Prerequisite: MILS 4003 Mission Command and the Army Profession

Expands on the concept of mission command in the contemporary operational environment. Explores relevant issues facing junior military officers including the art of command, comprehensive soldier fitness, developing others, supply and budgets, maintenance, and platoon leader responsibilities.

MILS 4021 **1 CR (IND STU) IRREGULAR**
MILITARY CONTEMPORARY ISSUES

Prerequisites: consent of department head

Individual study for advanced Army ROTC students.

MILS 4031 **1 CR (IND STU) FALL, SPRING**
MILITARY WRITING

Prerequisites: consent of department head

Independent study for advanced Army ROTC students. Correspondence in the military style using military forms and formats.

MILS 4173 **3 CR (3 LEC) IRREGULAR**
SURVEY OF AMERICAN MILITARY HISTORY

Prerequisite: HIST 2753 United States History I

A survey of American military history from the Revolution to the present concentrating on training, weapons and tactics.

MKTG Marketing

MKTG 3003 **3 CR (3 LEC) FALL**
INTRODUCTION TO PROFESSIONAL SELLING

Prerequisites: junior standing or consent of instructor

Examines selling strategies from the perspective of a professional customer problem-solving approach. Students experience practical exposure to selling concepts, problems, and techniques in a variety of selling situations. Current methods of professional selling and related skill development including questioning, listening, nonverbal communication, self-management, and presentations are studied.

MKTG 3013 **3 CR (3 LEC) FALL, SPRING**
PRINCIPLES OF MARKETING MANAGEMENT

Prerequisites: admission to the business program or consent of instructor

A comprehensive introduction to the concepts, activities, and decisions involved in the marketing function. Student critical thinking, interpersonal communication, and leadership skills are enhanced via the strategic application of marketing mix variables (i.e., product development and management, promotion, distribution, and pricing).

MKTG 3033 **3 CR (3 LEC) FALL**
INTEGRATED MARKETING COMMUNICATIONS

Prerequisites: MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

Emphasizes the role of advertising and other promotional mix elements in the integrated marketing communications program (IMC) of an organization. Attention is given to the various IMC tools used in contemporary marketing including advertising, direct marketing, Internet and interactive marketing, sales promotion, publicity, and public relations.

MKTG 3043 **3 CR (3 LEC) SPRING**
E-BUSINESS MARKETING

Prerequisite: MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

A comprehensive introduction to the strategic application of E-business technologies in the context of marketing decision making. The focus of the course is on how these evolving technologies can be best used to expand markets for products, better segment markers, customize marketing efforts, and strengthen relationships with customers.

MKTG 3103 **3 CR (3 LEC) IRREGULAR**
ADVANCED PROFESSIONAL SELLING

Prerequisites: MKTG 3003 Introduction to Professional Selling and admission to the business program, or consent of instructor

The advanced study of professional selling techniques focusing upon specific knowledge areas and skills that contribute to competitive advantage, long-term customer relations, and customer satisfaction. Emphasis is placed upon students developing functional sales experiences, both individually and in group settings

MKTG 3123 **3 CR (3 LEC) SPRING**
CONSUMER BEHAVIOR

Prerequisites: MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

Application of behavioral and social science theories, concepts, methods, and research findings to the understanding of consumer acquisition, consumption, and disposal behaviors as the basis of marketing decision making.

MKTG 3133 **3 CR (3 LEC) FALL**
MARKETING RESEARCH

Prerequisites: MGMT 2963 Business Statistics or STAT 2503 Probability and Statistics I, MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

Rigorous experience in the study and application of research design, data collection, data analysis, and data interpretation methodologies and techniques in the context of marketing decision making.

MKTG 3173 **3 CR (3 LEC) IRREGULAR**
SALES MANAGEMENT

Prerequisite: admission to the business program, or consent of instructor

Analysis of sales management and decisions made by the sales force manager. Focus is on structure and organization of the sales force, nature of the sales job, selection of sales personnel, sales training program, problems in compensation, supervision, and stimulation of sales personnel, analysis of territories and customers, sales forecasting and quotas, ethical problems in sales management, and evaluating sales performance.

MKTG 4033 **3 CR (3 LEC) SPRING**
SERVICES MARKETING

Prerequisites: MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

Application of marketing principles and strategic decision making in the context of the delivery of service products (in both the consumer and business-business marketplace). Preparation for a managerial career in a services economy.

MKTG 4133 **3 CR (3 LEC) FALL**
SOCIAL MEDIA MARKETING

Prerequisite: MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

Explores the still-emerging world of social media from both the conceptual and the tactical viewpoints. Develops a conceptual approach for explaining/predicting which social media programs will successfully attract users and which will successfully achieve business objectives.

MKTG 4143 **3 CR (3 LEC) SPRING**
DIGITAL MARKETING

Prerequisite: MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

Explores issues facing 21st century firms throughout their transition to digital operations. Introduces modern analytical software and approaches used in marketing.

MKTG 4203 **3 CR (3 LEC) SPRING**
INTERNATIONAL MARKETING

Prerequisites: MKTG 3013 Principles of Marketing Management and admission to the business program, or consent of instructor

Examines opportunities and challenges faced by marketers conducting business on a multi-national or global scale. Focuses on effectively making decisions related to international marketing objectives, foreign market selection, market entry strategy, and adaptation of product, pricing, distribution, and integrated marketing communication strategies to best ensure long-term organizational success in each foreign market served.

MKTG 447V **1-3 CR (IND STU) IRREGULAR**
INDEPENDENT STUDY IN MARKETING

Prerequisites: admission to the business program, MKTG 3013 Principles of Marketing Management, and approval of the instructor and department head

Prerequisite or corequisite: may vary depending on topic

Individual problems or topics in marketing arranged in consultation with instructor. May be repeated for a total of six hours.

MKTG 457V **1-3 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS IN MARKETING

Prerequisites: Admission to the business program or consent of instructor

Prerequisite or corequisite: may vary depending on topic.

Topics and current issues of critical importance to the field of marketing. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours.

MLED Middle School Education

MLED 3563 **3 CR (3 LEC) FALL**
MIDDLE-SCHOOL CONCEPTS

Prerequisite: admission to educator preparation program

Provides an understanding of middle-level students, curriculum, environment, organization, and teaching. Emphasis

will be on an integrated curriculum and interdisciplinary approach to curriculum design.

MUS_ Music - Private Instruction

Private instruction is offered in voice, piano, strings, woodwinds, brass and percussion to music majors. Each student's level of ability is determined, and an individual program of study is designed to attain maximum musical development. Enrollment may be limited by instructor availability and workload.

MUS_ 1251 — 1 CR (.5 LAB) FALL, SPRING
PRIVATE INSTRUCTION

MUSB	1251	Private Brass
MUSD	1251	Private Percussion
MUSP	1251	Private Piano
MUSS	1251	Private Strings
MUSV	1251	Private Voice
MUSW	1251	Private Woodwinds

Prerequisite: audition

Corequisite: MUSB 1251 Private Brass, MUSD 1251 Private Percussion, and MUSW 1251 Private Woodwinds have MUSR 1441 Symphonic Band as the corequisite. MUSS 1251 Private Strings has MUSR 1411 Jazz Band as the corequisite. MUSP 1251 Private Piano and MUSV 1251 Private Voice have MUSR 1421 Chorale as the corequisite.

Designed for non-music majors. Private instrumental/vocal study at the beginning level to include technique and literature. May be repeated for a total of four hours.

MUS_ 1252 — 2 CR (1 LAB) FALL, SPRING
PRIVATE INSTRUCTION

MUSB	1252	Private Brass
MUSD	1252	Private Percussion
MUSP	1252	Private Piano
MUSS	1252	Private Strings
MUSV	1252	Private Voice
MUSW	1252	Private Woodwinds

Prerequisite: audition and music major

Corequisite: MUSB 1252 Private Brass, MUSD 1252 Private Percussion, and MUSW 1252 Private Woodwinds have MUSR 1441 Symphonic Band as the corequisite. MUSS 1252 Private Strings has MUSR 1411 Jazz Band as the corequisite. MUSP 1252 Private Piano and MUSV 1252 Private Voice have MUSR 1421 Chorale as the corequisite.

Designed for music majors. Private instrumental/vocal study at the beginning level to include technique, literature, and public performance. May be repeated for a total of eight hours.

MUS_ 3251 — 1 CR (.5 LAB) FALL, SPRING
PRIVATE INSTRUCTION

MUSB	3251	Private Brass
MUSD	3251	Private Percussion
MUSP	3251	Private Piano
MUSS	3251	Private Strings
MUSV	3251	Private Voice
MUSW	3251	Private Woodwinds

Prerequisite: junior standing and four hours of MUS_ 1251.

Corequisite: MUSB 3251 Private Brass, MUSD 3251 Private Percussion, and MUSW 3251 Private Woodwinds have MUSR 3441 Symphonic Band as the corequisite. MUSS 3251 Private Strings has MUSR 3411 Jazz Band as the corequisite. MUSP 3251 Private Piano and MUSV 3251 Private Voice have MUSR 3421 Chorale as the corequisite.

Designed for non-music majors. Private instrumental/vocal study at the advanced level to include technique and literature. May be repeated for a total of four hours.

MUS_ 3252 — 2 CR (1 LAB) FALL, SPRING
PRIVATE INSTRUCTION

MUSB	3252	Private Brass
MUSD	3252	Private Percussion
MUSP	3252	Private Piano
MUSS	3252	Private Strings
MUSV	3252	Private Voice
MUSW	3252	Private Woodwinds

Prerequisite: junior standing, eight hours of MUS_ 1252, and satisfactory completion of sophomore jury and sophomore review

Corequisite: MUSB 3252 Private Brass, MUSD 3252 Private Percussion, and MUSW 3252 Private Woodwinds have MUSR 3441 Symphonic Band as the corequisite. MUSS 3252 Private Strings has MUSR 3411 Jazz Band as the corequisite. MUSP 3252 Private Piano and MUSV 3252 Private Voice have MUSR 3421 Chorale as the corequisite.

Designed for music majors. Private instrumental/vocal study at the advanced level to include technique, literature, and public performance. May be repeated for a total of eight hours.

MUSC Music - Class Instruction

All non-piano music majors should enroll in four semesters of Class Piano in order to complete degree requirements.

MUSC 1151 — 1 CR (2 LAB) FALL
CLASS GUITAR I

Instruction in guitar for beginners. No previous musical experience is required. Students will be required to provide their own guitar.

MUSC 1161 — 1 CR (2 PART) FALL
CLASS PIANO I

Prerequisite: music major or consent of instructor

Instruction in developing fundamental keyboard skills, which includes sight reading, transposition, and harmonization. Additional instruction in technique, which includes pentachord positions, scales, and chords; and repertoire, which includes melodies in fine-finger patterns through elementary level piano compositions.

MUSC 1171 — 1 CR (2 PART) SPRING
CLASS PIANO II

Prerequisite: MUSC 1161 Class Piano I or consent of instructor

Continues the instruction of MUSC 1161. Further instruction in developing fundamental skills, which includes sight reading, transposition, and harmonization. Additional instruction in technique, which includes pentachord positions scales, and chords; and repertoire, which includes elementary level piano compositions.

MUSC 1251 **1 CR (2 LAB) SPRING**
CLASS GUITAR II

Continues the techniques of guitar playing discussed in Class Guitar I and applies them to more difficult music. Students will be required to provide their own guitar.

MUSC 2161 **1 CR (2 PART) FALL**
CLASS PIANO III

Prerequisite: MUSC 1171 Class Piano II or consent of instructor

Continues the instruction of MUSC 1171. Instruction in developing intermediate level keyboard skills, which includes scales, arpeggios, and chord patterns and inversions in all major and minor keys; harmonization and improvisation of melodies and chord patterns; and performance of a prepared intermediate level piano composition.

MUSC 2171 **1 CR (2 PART) SPRING**
CLASS PIANO IV

Prerequisite: MUSC 2161 Class Piano III or consent of instructor

Continues the instruction of MUSC 2161. Further instruction in developing intermediate level keyboard skills, which includes scales, arpeggios, and chord patterns and inversions in all major and minor keys; harmonization and improvisation of melodies and chord patterns; and performance of a prepared intermediate level piano composition.

MUSI Music - Basic

MUSI 1000 **0 CR (PART) FALL, SPRING**
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.

MUSI 1102 **2 CR (2 LEC) FALL**
MUSIC EDUCATION AS A PROFESSION

Prerequisite: music education major

Introduction to the history and development of music education, specifically in public school districts. Various methods and experiences in both the elementary and secondary schools will be discussed.

MUSI 1183 **3 CR (3 LEC) SPRING**
FUNDAMENTALS OF MUSIC

A developmental class in music theory with an emphasis on aural and written training in notation, scales, intervals, rhythm, meter, melody, harmony, and major and minor keys. Designed for music majors prior to MUSI 1223 Music Theory I or for non-music majors interested in learning basic musicianship.

MUSI 1201 **1 CR (2 LAB) FALL**
SIGHT SINGING AND EAR TRAINING I

Prerequisite: music major or minor, or consent of instructor

Corequisite: MUSI 1223 Music Theory I

Designed to improve aural skills through rhythmic, melodic, and harmonic dictation, and melodic and rhythmic sight singing. Also includes the performance of prepared melodies and improvisation based on specific harmonic guidelines.

MUSI 1211 **1 CR (2 LAB) SPRING**
SIGHT SINGING AND EAR TRAINING II

Prerequisite: MUSI 1201 Sight Singing and Ear Training I

Corequisite: MUSI 1233 Music Theory II

Continues the instruction of MUSI 1201. Designed to improve aural skills through rhythmic, melodic, and harmonic dictation, and melodic and rhythmic sight singing. Also includes the performance of prepared melodies and improvisation based on specific harmonic guidelines

MUSI 1223 **3 CR (3 LEC) FALL**
MUSIC THEORY I

Prerequisite: music major or minor, or consent of instructor

Corequisite: MUSI 1201 Sight Singing and Ear Training I

Focuses on the study of melody writing, as well as the formation of chords and their proper use. Instruction in intervals primary and secondary triads in root position, inversions of major and minor triads, embellishing tones, as well as techniques of melody writing. Additional instruction in dominant seventh chords, the study of harmony in minor keys, and in composing music with piano accompaniment and short piano pieces.

MUSI 1233 **3 CR (3 LEC) SPRING**
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.

MUSI 1322 **2 CR (2 LEC) FALL**
MUSIC TECHNOLOGY

Prerequisite: music major or consent of instructor

Corequisite: MUSI 1223 Music Theory I

Designed for music majors as an introductory study of computer technology and music technology. Instruction in use of software designed for musical notation, word processing, sound editing, and other standard software for manipulating digital media. Also provides fundamental instruction in web development, sound reinforcement and recording practices.

MUSI 2181 **1 CR (1 LEC, 1 LAB) FALL**
DICTION FOR SINGERS I

Prerequisite: music major or consent of instructor

Introductory study of the International Phonetic Alphabet. Designed to achieve accurate and appropriate pronunciation of text in both speech and performance of English and Italian vocal music.

MUSI 2191 **1 CR (1 LEC, 1 LAB) SPRING**
DICTION FOR SINGERS II

Prerequisite: MUSI 2181 Diction for Singers I or consent of instructor

Designed to achieve fluency in the International Phonetic Alphabet and accurate and appropriate pronunciation of text in both speech and performance of French and German vocal music.

MUSI 2763 3 CR (3 LEC) FALL, SPRING, SUMMER
MUSIC APPRECIATION

Intended for students who wish to acquire basic information about the origin and development of music. Major style periods and composers are introduced through lectures and recordings. Guided listening experiences are an integral part of the course. Courses addressing specific topics in music may occasionally be offered under this course title. (ACTS: MUSC 1003)

MUSI 2781 1 CR (2 LAB) FALL
SIGHT SINGING AND EAR TRAINING III

Prerequisite: MUSI 1211 Sight Singing and Ear Training II
Corequisite: MUSI 2803 Music Theory III

Continues the instruction of MUSI 1211. Aural skills are further developed by introducing more advanced harmonies including seventh chords, chromaticism, and modes. Use of dictation, sight singing, and improvisation based on specific harmonic guidelines.

MUSI 2791 1 CR (2 LAB) SPRING
SIGHT SINGING AND EAR TRAINING IV

Prerequisite: MUSI 2781 Sight Singing and Ear Training III
Corequisite: MUSI 2813 Music Theory IV

Continues the instruction of MUSI 2781. Aural skills are further developed by introducing more advanced harmonies including seventh chords, chromaticism and modes. Use of dictation, sight singing, and improvisation based on specific harmonic guidelines.

MUSI 2803 3 CR (3 LEC) FALL
MUSIC THEORY III

Prerequisite: MUSI 1233 Music Theory II
Corequisite: MUSI 2781 Sight Singing and Ear Training III

Study of counterpoint from the Renaissance and Baroque eras, the main structural forms of the Baroque and Classical eras, and chromatic harmony of the later Classical and Romantic eras. Students demonstrate synthesis of theoretical concepts by harmonizing bass lines and melodies and employing motivic, structural, and harmonic analysis to examine representative literature.

MUSI 2813 3 CR (3 LEC) SPRING
MUSIC THEORY IV

Prerequisite: MUSI 2803 Music Theory III
Corequisite: MUSI 2791 Sight Singing and Ear Training IV

Study of chromatic harmony of the later Classical and Romantic eras and non-functional harmonic techniques from the nineteenth and twentieth centuries. Students demonstrate synthesis of theoretical concepts by harmonizing bass lines and melodies and employing motivic, structural, harmonic, twelve-tone, and set theory analysis to examine representative literature.

MUSI 2821 1 CR (2 LAB) EVEN SPRING
PERCUSSION INSTRUMENTS

Prerequisite: music major or consent of instructor

Study of instruments of the percussion family to the extent that scales and/or rudiments and grade one and two solos can be played on selected instruments. Designed as a practical preparation for public school instrumental teachers.

MUSI 2841 1 CR (2 LAB) EVEN FALL
INSTRUMENTAL CONCEPTS FOR VOCALISTS

Prerequisite: music major with sophomore standing

Designed to train vocal music education students in instrumental pedagogy, including methods and practices in woodwind, brass, percussion and strings. Designed as a practical preparation for instruction in elementary and secondary instrumental music programs. Offers laboratory experience in teaching beginning instrumental students, in addition to solo instrumental performance.

MUSI 2851 1 CR (2 LAB) ODD SPRING
STRING INSTRUMENTS AND VOCAL PEDAGOGY FOR INSTRUMENTALISTS

Prerequisite: music major with sophomore standing

Designed as a practical preparation for prospective teachers of instrumental music. The first half of the semester develops diagnostic skills in teaching violin, viola, cello and bass. The second half presents fundamental vocal pedagogy, including how to develop and maintain proper vocal production and vocal health. Offers laboratory experience in teaching beginning string and voice students, in addition to solo string and vocal performance.

MUSI 2861 1 CR (1 LEC,1 LAB) IRREGULAR
FUNDAMENTALS OF IMPROVISATION I

Prerequisite: music major or consent of instructor

Teaches the skills needed for improvising solos in jazz, pop, and rock music. Focuses on jazz scales, modes, chords, and patterns used to improvise. Ability to read music is not required. Students will apply these concepts through performance

MUSI 2871 1 CR(1 LEC, 1 LAB) IRREGULAR
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.

MUSI 3000 0 CR (PART) FALL, SPRING
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.

MUSI 3102 2 CR (2 LEC) FALL
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.

MUSI 3202 2 CR (2 LEC) IRREGULAR
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.

MUSI 3302 **2 CR (2 LEC) FALL**
MARCHING BAND/JAZZ TECHNIQUES

Prerequisite: music education major with instrumental concentration

A broad overview of all aspects of directing high school marching band and jazz band programs. Includes organization of all performing sections and support groups, drill techniques, modern show design and judging techniques, jazz band methods and pedagogy for lessons and ensembles in the 7-12 setting. Emphasis on rehearsal techniques and materials.

MUSI 3352 **2 CR (2 LEC) IRREGULAR**
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.

MUSI 3372 **2 CR (2 LEC) ODD FALL**
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 imagistic language that facilitates the teaching of voice, and the observational and diagnostic skills needed for effective teaching.

MUSI 3402 **2 CR (2 LEC) IRREGULAR**
CHORAL LITERATURE

Prerequisite: music education major with vocal concentration

A survey of literature for chorus with emphasis on the selection of choral repertoire suitable for ensembles at various levels.

MUSI 3472 **2 CR (1 LAB) IRREGULAR**
COMPOSITION

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

Private lessons in creative composition with a view toward developing an individual style. Discussions and demonstrations include compositional forms and techniques and the process of composition. May be repeated for a total of 8 hours.

MUSI 3503 **3 CR (3 LEC) FALL**
MUSIC HISTORY I

Prerequisite: music major or minor with junior standing and ENGL 1213 Composition II or ENGL 1233 Honors Composition

Introduction to the critical study of Western music history from ancient Greece to 1750, including representative composers, works, and genres, as well as significant concepts and issues.

MUSI 3513 **3 CR (3 LEC) SPRING**
MUSIC HISTORY II

Prerequisite: music major or minor with junior standing and ENGL 1213 Composition II or ENGL 1233 Honors Composition

Introduction to the critical study of Western music history from 1750 to the present, including representative composers, works, and genres, as well as significant concepts and issues. Includes an examination of music elements and styles of non-Western cultures.

MUSI 3663 **3 CR (3 LEC) IRREGULAR**
JAZZ HISTORY AND STYLES

Prerequisite: junior standing and ENGL 1213 Composition II or ENGL 1233 Honors Composition

Explores the evolution of jazz from its inception to the present, as well as the importance of this art form within American culture. Includes an overview of basic music elements and concepts indigenous to jazz. Focuses on the major styles and artists from 1900 to the present.

MUSI 3822 **2 CR (2 LEC) FALL**
PRINCIPLES OF CONDUCTING

Prerequisite: music major or consent of instructor

The study of the principles and practices of conducting with focuses on baton techniques, score study, transpositions, and basic terminology.

MUSI 3833 **3 CR (3 LEC) SPRING**
ELEMENTARY MUSIC METHODS AND MATERIALS

Prerequisite: admission to the School of Education

Designed as a practical preparation for prospective teachers of elementary music. Focuses on the fundamentals of elementary music pedagogy and provides materials and techniques for teaching music skills to students at the elementary level.

MUSI 3841 **1 CR (2 LAB) ODD FALL**
WOODWINDS I

Prerequisite: music major or consent of instructor

Study of single reed woodwind instruments to the extent that scales and grade one and two solos can be performed on selected instruments. Designed as a practical preparation for public school instrumental teachers.

MUSI 3851 **1 CR (2 LAB) EVEN SPRING**
WOODWINDS II

Prerequisite: music major or consent of instructor

Study of flute and double reed woodwind instruments to the extent that scales and grade one and two solos can be performed on selected instruments. Designed as a practical preparation for public school instrumental teachers.

MUSI 3862 **2 CR (2 LEC) IRREGULAR**
VOCAL LITERATURE

Prerequisite: music major with junior standing or consent of instructor

The history, development, and literature of major trends in solo song from circa 1585 to present, suitability of vocal literature for singers at various stages of vocal development, and stylistic considerations for such literature needed for effective teaching.

MUSI 3872 **2 CR (2 LEC) IRREGULAR**
PIANO LITERATURE

Prerequisite: junior standing or consent of instructor

History of piano repertoire from Pre-Baroque through the twentieth century. Includes study of composers, their complete piano works, musical forms, performance practices, and stylistic considerations for such literature needed for effective teaching.

MUSI 3882 **2 CR (2 LEC) SPRING**
ADVANCED CONDUCTING

Prerequisite: MUSI 3822 Principles of Conducting or consent of instructor

Develops advanced conducting skills in the upper-level music student. Covers such topics as technique, score study/analysis, gestures, and repertoire for band, orchestra, and choir. Emphasis will be placed on expressive conducting including the use of the face to convey emotion in the music being conducted.

MUSI 4030 **0 CR FALL, SPRING**
SENIOR RECITAL

Prerequisites: 4 semesters of MUS_ 1252 Private Instruction and 3 semesters of MUS_ 3252 Private Instruction

Corequisite: For music majors: must be enrolled in 4th semester of MUS_ 3252 Private Instruction. For music education majors, must be enrolled in 3rd semester of MUS_ 3252. Must remain in MUS_ 3252 through successful completion of senior recital.

Music majors are required to present a successful recital on their major instrument in order to receive the degree in music or music education. Students must remain in private lessons through successful completion of senior recital.

MUSI 4443 **3 CR (3 LEC) EVEN FALL**
SURVEY OF AMERICAN MUSIC

Prerequisite: junior Standing and ENGL 1213 Composition II or ENGL 1233 Honors Composition

Survey of folk, popular, and classical music of the United States, from the sacred works of the 1500s to the classical, jazz, popular, and rock music of the 21st century. Includes Native American songs and chants, as well as music of Spanish, French and English colonists, African slaves, and other immigrants to North America.

MUSI 4532 **2 CR (2 LEC) SPRING**
FORM AND ANALYSIS

Prerequisite: MUSI 2813 Music Theory IV

Continuation of MUSI 2813 Music Theory IV includes the standard forms of the baroque, classical, and romantic periods (1600-1900), emphasizing the language of musical analysis and the designations and categories of form.

MUSI 4843 **3 CR (3 LEC) FALL**
SECONDARY VOCAL METHODS AND MATERIALS

Prerequisite: admission to the School of Education and MUSI 3842 Conducting II: Vocal

Designed as the final course of study for vocal music education majors prior to teaching in secondary schools. Focuses on the educational philosophies, rehearsal techniques, repertoire and administration of the secondary school vocal program, including a unit on teaching general music at the secondary level.

MUSI 4853 **3 CR (3 LEC) FALL**
SECONDARY INSTRUMENTAL METHODS AND MATERIALS

Prerequisite: admission to the School of Education and MUSI 3852 Conducting II: Instrumental

Designed as the final course of study for instrumental music education majors prior to teaching in secondary schools. Focuses on the educational philosophies, rehearsal techniques, and instrumental repertoire and administration of the secondary school instrumental program

MUSI 4861 **1 CR (2 LAB) ODD FALL**
BRASS INSTRUMENTS

Prerequisite: music major or consent of instructor

Study of the brass family of instruments to the extent that scales and grade one and two solos can be played on selected instruments. Designed as a practical preparation for public school instrumental teachers.

MUSI 4883 **3 CR (3 LEC) IRREGULAR**
MUSIC CAPSTONE EXPERIENCE

Prerequisites: Four semesters of MUS_ 1252 and two semesters of MUS_ 3252

Corequisite: MUS_ 3252

All music majors undertake a senior capstone project involving a combination of performance and music research as a culminating activity. The subject and scope of the project will be determined in consultation with a music faculty member, and will include a presentation/performance (lecture recital) of at least 40 minutes, and a project portfolio for archival purposes and future employment in the field of music.

MUSR Music Performance

If appropriate, four credit hours of music performance courses, at the lower (1000) level and four credit hours at the upper (3000) level may apply toward graduation for a baccalaureate degree.

MUSR 1010 **0 CR (PART) FALL, SPRING**
ATHLETIC BAND

Prerequisite: audition

Opportunity for wind, brass, and percussion students to perform in a modern ensemble. Provides musical entertainment for home athletic events and represents the music department, the athletic department, and the University with concerts and special performances throughout the school year.

MUSR 1201 **1 CR (2 PART) FALL, SPRING**
JAZZ LAB ENSEMBLE

Prerequisite: consent of director

A training ground for students to learn basic techniques in jazz performance. Musical selections, exercises, and other materials are used in rehearsal as teaching tools. Public performance scheduling is contingent upon personnel and levels of ability. May be repeated for a total of four hours.

MUSR 1351 **1 CR (2 PART) FALL, SPRING**
INSTRUMENTAL ENSEMBLES

Prerequisite: consent of director

Provides performance opportunities within a small group context for brass, wind, and percussion musicians with previous band experience. Concert literature is prepared and performed throughout the semester. May be repeated for a total of four hours.

MUSR 1361 **1 CR (3 PART) FALL, SPRING**
OPERA AND MUSICAL THEATRE WORKSHOP

Prerequisite: audition

Focuses on preparation and performance of scenes from musical theatre, operas, and operettas. Emphasis is on musical preparation, movement, and diction. May be repeated for a total of four hours.

MUSR 1411 **1 CR (3 PART) FALL, SPRING**
JAZZ BAND

Prerequisite: audition

Provides training in performance of music from the jazz idiom. Both contemporary and traditional styles are explored with an emphasis on improvisation and proper stylistic interpretation. Students gain experience in performance and rehearsal techniques. May be repeated for a total of four hours.

MUSR 1421 **1 CR (4 PART) FALL, SPRING**
LEONIS CHAMBER SINGERS

Prerequisite: audition

Primary choral ensemble of the University; open to all students. Includes literature of all styles from all periods, both large and small choral works. Performances are given on- and off-campus. May be repeated for a total of four hours.

MUSR 1441 **1 CR (4 PART) FALL, SPRING**
WIND ENSEMBLE

Prerequisite: audition

Provides rehearsal and performance experiences for woodwind, brass, and percussion musicians in a large-group setting. Repertoire includes literature representing many traditional and contemporary styles. May be repeated for a total of four hours.

MUSR 1451 **1 CR (3 PART) FALL, SPRING**
VOCAL JAZZ

Prerequisite: audition

Corequisite: MUSR 1421 Chorale

A small performing ensemble of mixed voices. Both contemporary and traditional styles of vocal jazz are explored with an emphasis on proper stylistic interpretation. Performances are given on campus, in the community, and on tours throughout the region. May be repeated for a total of four hours.

MUSR 1461 **1 CR (2 PART) FALL, SPRING**
WOMEN'S CHORUS

Prerequisite: audition

Ensemble open to all with treble voices (soprano/alto). Includes choral vocal training along with the study and performance of concert literature from all styles and periods of music. May be repeated for a total of four hours.

MUSR 1481 **1 CR (2 PART) FALL, SPRING**
MEN'S CHORUS

Prerequisite: audition

Ensemble open to students with male voices (tenor/bass). Includes choral vocal training along with the study and performance of concert literature from all styles and periods of music. May be repeated for a total of four hours.

MUSR 3201 **1 CR (2 PART) FALL, SPRING**
JAZZ LAB ENSEMBLE

Prerequisite: audition or consent of instructor

Provides a training ground for students to learn basic techniques in jazz performance. Musical selections, exercises, and other materials are used in rehearsal as teaching tools. Public performance contingent upon personnel and levels of ability. May be repeated for a total of four hours.

MUSR 3351 **1 CR (2 PART) FALL, SPRING**
INSTRUMENTAL ENSEMBLE

Prerequisite: consent of instructor

Provides performance opportunities within a small group context for brass, wind, and percussion musicians with band experience. Concert literature is prepared and performed several times throughout semester. May be repeated for a total of four hours.

MUSR 3361 **1 CR (3 PART) FALL, SPRING**
OPERA AND MUSICAL THEATRE WORKSHOP

Prerequisite: audition

Focuses on preparation and performance of scenes from musical theatre, operas, and operettas. Emphasis on musical preparation, movement, and diction. May be repeated for a total of four hours.

MUSR 3411 **1 CR (3 PART) FALL, SPRING**
JAZZ BAND

Prerequisite: junior standing and audition

Performance of contemporary and traditional styles of jazz are explored with an emphasis on improvisation and proper stylistic interpretation. Students gain experience in performance and rehearsal techniques. May be repeated for a total of four hours.

MUSR 3421 **1 CR (4 PART) FALL, SPRING**
LEONIS CHAMBER SINGERS

Prerequisite: junior standing and audition

Primary choral ensemble of the University; open to all students. Includes literature of all styles from all periods, both large and small choral works. Upper-level students will be expected to demonstrate higher levels of performance as well as leadership within the ensemble. May be repeated for a total of four hours.

MUSR 3441 **1 CR (4 PART) FALL, SPRING**
WIND ENSEMBLE

Prerequisite: junior standing and audition

Provides rehearsal and performance experiences for woodwind, brass, and percussion musicians in a large-group setting. Repertoire includes literature representing many traditional and contemporary styles. Performances are presented regularly on campus, as well as in school and community settings. Upper-level students will be expected to demonstrate higher levels of performance as well as leadership within the ensemble. May be repeated for a total of four hours.

MUSR 3451 **1 CR (3 PART) FALL, SPRING**
VOCAL JAZZ

Prerequisite: junior standing and audition

Corequisite: MUSR 3421 Chorale

A small performing ensemble of mixed voices selected by audition. Both contemporary and traditional styles of vocal jazz music are explored, with an emphasis on proper stylistic interpretation. Music prepared in rehearsal is performed in concerts at the University, in the community, and on tours throughout the region. May be repeated for a total of four hours.

MUSR 3461 **1 CR (2 PART) FALL, SPRING**
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.

MUSR 3481 **1 CR (2 PART) FALL, SPRING**
MEN'S CHORUS

Prerequisite: junior standing and audition

Ensemble open to students with male voices (tenor/bass). 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. Upper-level students will be expected to demonstrate higher levels of performance as well as leadership within the ensemble. May by repeated for a total of four hours.

MUSR 3471 **1 CR (2 PART) FALL, SPRING**
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.

NET Network Engineering

NET 1113 **3 CR (1 LEC, 4 LAB) FALL**
CYBER DEVICES I
Students will identify, assemble, and connect hardware components and devices; install, configure, and secure client operating systems for desktop and mobile devices; and support and troubleshoot client mobile and desktop device issues.

NET 1163 **3 CR (1 LEC, 4 LAB) FALL**
WIRING AND CABLING
Introduces concepts and applied knowledge for designers, installers, and operators of local area networks of computers, security systems, building management systems, and distributed antenna systems for cellular and wi-fi as well as other applications.

NET 1203 **3 CR (1 LEC, 4 LAB) SPRING**
SUPPORT ESSENTIALS
Introduces and develops the knowledge, skills, and abilities needed in the support industry.

NET 1213 **3 CR (1 LEC, 4 LAB) SPRING**
CYBER DEVICES II
Prerequisite: NET 1113 Cyber Devices I
Students will learn to identify, use, and connect multiple components and devices via networks. Topics include installing, configuring, securing and supporting client applications for desktop and mobile devices; comparing and contrasting local versus remote technologies for client usage and support; and troubleshooting device, software, and network issues.

NET 1243 **3 CR (1 LEC, 4 LAB) SPRING**
NETWORKING WITH ENTERPRISE DEVICES
Covers the basic knowledge and skills to implement simple networks using enterprise equipment. Topics include the OSI network model, network topologies, transmission media, IP addressing and subnets, initial access and configuration of network switches, network routers and end devices as well as security of network devices. Introduces tools and utilities to facilitate network management.

NET 2113 **3 CR (1 LEC, 4 LAB) FALL**
MICROSOFT SERVER FOUNDATIONS
Prerequisite: NET 1243 Networking with Enterprise Devices
Introduces the foundations of using Microsoft server software for networking infrastructure as well as hosting business applications.

NET 2144 **4 CR (2 LEC, 4 LAB) FALL**
CONFIGURING NETWORK DEVICES
Prerequisite: NET 1243 Networking with Enterprise Devices
Provides the basic knowledge and skills to implement network devices that provide efficient, high-availability networking. These technologies include switching, routing and wireless devices and their methods of implementation, configuration, security, and administration.

NET 2123 **3 CR (1 LEC, 4 LAB) FALL**
LINUX FOUNDATIONS
Prerequisite: NET 1243 Networking with Enterprise Devices
Introduces the foundations of using Linux workstation/server software for networking infrastructure as well as housing business applications.

NET 2243 **3 CR (1 LEC, 4 LAB) SPRING**
CLOUD COMPUTING
Prerequisites: NET 2113 Microsoft Server Foundations, NET 2123 Linux Foundations, and NET 2144 Configuring Network Devices
Students learn concepts and skills needed to analyze technical requirements in order to successfully execute workload migrations to a cloud provider and to troubleshoot capacity, automation, connectivity, and security issues related to cloud implementations.

NET 2253 **3 CR (1 LEC, 4 LAB) SPRING**
CYBER SECURITY
Prerequisite: NET 2144 Configuring Network Devices
Introduces foundational knowledge of network security topics in Windows-based TCP/IP networks and familiarity with other operating systems, such as macOS, Unix or Linux.

NET 2403 **3 CR (1 LEC, 4 LAB) SPRING**
NETWORKING CAPSTONE
Prerequisite: NET 2144 Configuring Network Devices
Student teams will be assigned a significant project to complete. This project will either be a real, customer-driven project or will simulate the type of experience expected to be encountered in today's workplace.

NURS Nursing

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

NURS 2103 **3 CR (3 LEC) FALL, SPRING**
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.

NURS 3113 **3 CR (2 LEC, 3 LAB) FALL, SPRING**
NURSING SKILLS
Prerequisites (BSN only): NURS 2103 Introduction to Professional Nursing and NURS 3164 Health Assessment
Corequisite (BSN only): NURS 3227 Foundations of Nursing Care
Corequisite (BSN-Accelerated only): NURS 2103 Introduction to Professional Nursing, NURS 3164 Health Assessment, and NURS 3227 Foundations of Nursing Care
The development of basic, intermediate, and advanced nursing skills is studied. Campus laboratories are used for student practice, simulation, and demonstration of skills.

NURS 3164 **4 CR (2.5 LEC, 4.5 LAB) FALL, SPRING**
HEALTH ASSESSMENT
Prerequisite: admission to the BSN program, or consent of executive director of the School of Nursing or dean of the College of Health, Education, and Human Sciences, and (BSN-Accelerated only) HLTH 3103 Pathophysiology

Prerequisite or corequisite (BSN only): HLTH 3103 Pathophysiology and NURS 2103 Introduction to Professional Nursing

Corequisite (BSN-Accelerated only): NURS 2103 Introduction to Professional Nursing, NURS 3113 Nursing Skills, and NURS 3227 Foundations of Nursing Care

Focuses on the development of skills necessary for assessing the physical health status of both adult and pediatric clients. Skills of inspection, auscultation, palpation, and percussion are emphasized. Students apply classroom content in clinical and simulated laboratory situations. Course meets the UAFS BSN program's requirement for health assessment.

NURS 3227 7 CR (3 LEC,12 LAB) FALL, SPRING
FOUNDATIONS OF NURSING CARE

Prerequisites: HLTH 3103 Pathophysiology (BSN and BSN-Accelerated) and NURS 3164 Health Assessment (BSN only)

Prerequisite or corequisite (BSN only): PHAR 3203 General Pharmacology and NUTR 2523 Nutrition

Corequisite: NURS 2103 Introduction to Professional Nursing (BSN-Accelerated only), NURS 3113 Nursing Skills (BSN and BSN-Accelerated), NURS 3164 Health Assessment (BSN-Accelerated only)

An introduction to the nursing diagnoses with an emphasis on major nursing concepts and fundamental skills. Application of these concepts and skills is accomplished in laboratory and clinical settings.

NURS 3236 6 CR (3 LEC, 9 LAB) FALL, SPRING, SUMMER
NURSING CARE OF WOMEN & CHILDREN

Prerequisites: NURS 3227 Foundations of Nursing Care and PHAR 3203 General Pharmacology

Focuses on the care of women and children along the health and illness continuum. Students apply the nursing process to address care of the well child; child with acute, chronic and/or life threatening conditions; normal pregnancy; high risk pregnancy; care of the healthy and high-risk newborn and women's health issues.

NURS 3337 7 CR (3 LEC,12 LAB) FALL, SPRING, SUMMER
NURSING CARE OF THE ADULT I

Prerequisites: NURS 3227 Foundations of Nursing Care and PHAR 3203 General Pharmacology

Provides an overview of the physiological, psychosocial, cultural and developmental health issues with focus on priority nursing diagnoses in the adult and geriatric population.

NURS 434C 12 CR (4 LEC, 24 LAB) FALL, SPRING, SUMMER
NURSING CARE OF THE ADULT II

Prerequisites: NURS 3337 Nursing Care of the Adult I and NURS 3236 Nursing Care of Women and Children

Focuses on care of the client's physiological, psychosocial, cultural and developmental health issues with a concentration on priority nursing diagnoses in adult and geriatric populations.

NURS 4355 5 CR (2 LEC, 9 LAB) FALL, SPRING
NURSING CARE OF THE CRITICALLY ILL ADULT

Prerequisite: NURS 434C Nursing Care of the Adult II

Addresses the physiological, psychosocial, cultural and developmental health issues for acutely/critically ill adults and the geriatric population.

NURS 4364 4 CR (2 LEC, 6 LAB) IRREGULAR
LEADERSHIP IN PROFESSIONAL NURSING

Prerequisites: HLTH 4103 Research in the Health Sciences and NURS 434C Nursing Care of the Adult II

Prerequisite or corequisites: NURS 4355 Nursing Care of the Critically Ill Adult and NURS 4458 Psychiatric and Community Health Nursing

An in-depth view of nursing leadership and management in a changing healthcare environment. Emphasis placed on development of skills for delivery of quality client care within an organization, service-learning, and application of evidence-based practice.

NURS 4458 8 CR (4 LEC, 12 LAB) FALL, SPRING
PSYCHIATRIC & COMMUNITY HEALTH NURSING

Prerequisite: NURS 434C Nursing Care of the Adult II

Prerequisite or corequisites: NURS 4355 Nursing Care of the Critically Ill Adult and NURS 4364 Leadership in Professional Nursing

Theoretical basis of psychiatric and community health nursing is the focus of the course. Students explore the role of the nurse in the community, in the care of aggregates, and populations at risk. Principles of individual, group and family behaviors will facilitate the study of common psychiatric disorders and their treatment.

NUTR Nutrition

NUTR 2523 3 CR (3 LEC) FALL, SPRING
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 populations using nutritional assessment techniques, and devises plans for the maintenance or restoration of nutritional health.

OMT Office Management Technology

OMT 1203 3 CR (3 LEC) FALL
INTRODUCTION TO OFFICE MANAGEMENT

Introduces students to the twenty-first century office and skills needed to manage such an office.

OMT 1653 3 CR (3 LEC) FALL
EMPLOYEE BENEFITS

Covers the psychology, economics and regulation of employee benefits.

OMT 1703 3 CR (3 LEC) SPRING
ADVANCED COMPUTER APPLICATIONS

Prerequisite: ITA 1003 Computer Applications for the Knowledge Worker

Covers advanced Microsoft Office applications and includes applying skills in a wide variety of progressively challenging projects requiring problem solving and critical thinking skills presented in an office setting.

OMT 2243 3 CR (3 LEC) SPRING
STRATEGIC PERSONNEL DEVELOPMENT

A comprehensive review of personnel policy reflecting the changing nature of human resource management in organizations globally.

OMT 2343 **3 CR (3 LEC) FALL**
OFFICE COMMUNICATION ESSENTIALS
Prerequisite or corequisite: ENGL 1203 Composition I or required placement score
Focuses on understanding and communicating with customers, coworkers and supervisors, with on emphasis on writing skills and communicating clearly and concisely, in an appropriate style and tone.

OMT 2843 **3 CR (3 LEC) FALL**
MEDICAL INSURANCE AND BILLING
An introduction to the basic functions of processing medical insurance claims including a step-by-step approach to guide students through the insurance claim form cycle.

OMT 2853 **3 CR (3 LEC) FALL**
MEDICAL INSURANCE CODING I
An introduction to the basic functions of medical coding using ICD-9-CM and ICD-10-CM codes for the medical office environment. Students are taught coding conventions, general coding guidelines, diagnostic coding and reporting guidelines.

OMT 2863 **3 CR (3 LEC) SPRING**
MEDICAL INSURANCE CODING II
Prerequisite: OMT 2853 Medical Insurance Coding I
The introduction to the functions of medical coding using CPT-4 and HCPCS Coding and Coding Modifiers.

OMT 2923 **3 CR (3 LEC) SPRING**
INTEGRATED OFFICE PROCEDURES PROJECT
Prerequisite: office management technology major or consent of instructor
Capstone course that provides students with unique opportunities to go beyond the basics and apply creativity in problem solving, and decision making in essential application skills. Special emphasis on current technology used in offices.

OMT 2983 **3 CR (3 LEC) SPRING**
EMERGING OFFICE TECHNOLOGIES
Designed to provide administrative professionals the opportunity to research and explore the latest technological advances in the offices and businesses. Discussion, directed readings, research, and writing on various topics. Course content may change from semester to semester.

OMT 286V **2-3 CR (INT/PRAC) FALL, SPRING, SUMMER**
ACADEMIC INTERNSHIP
Prerequisite: consent of department head
Provides students the opportunity to gain experience in their major by working at a local area business or industry with supervised observation.

OMT 290V **1-3 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS
Prerequisite: consent of instructor
Provides specialized instruction related to new and emerging topics in the office management or medical office that are not otherwise covered in the curriculum. May be repeated for a total of six hours.

OMT 299V **1-3 CR (VARIABLE) IRREGULAR**
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

OSS 260V **1-6 CR (VARIABLE) IRREGULAR**
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.

OSS 460V **1-6 CR (VARIABLE) IRREGULAR**
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

PHAR 3203 **3 CR (3 LEC) FALL, SPRING**
GENERAL PHARMACOLOGY
Prerequisite: HLTH 3103 Pathophysiology.
Reviews general principles, theories and facts about drugs, their administration, classifications, and mechanisms of action, pharmacokinetics, drug interactions, and the adverse effect of drugs used in the prevention and treatment of illnesses.

PHIL Philosophy

PHIL 2753 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO PHILOSOPHY
Survey of history and fundamental issues of philosophy in Western civilization. (ACTS: PHIL 1103)

PHIL 3103 **3 CR (3 LEC) FALL, SPRING**
REASONING ACROSS THE DISCIPLINES
Prerequisite: junior standing
Students explore reasoning and critical thinking, developing analytic tools based on the standards of logic and reasoning. They then investigate argument analysis and formulation in various disciplines, applying their recently developed reasoning skills.

PHIL 3203 **3 CR (3 LEC) FALL, SPRING**
ETHICS ACROSS THE DISCIPLINES
Prerequisite: junior standing or consent of instructor
Introduces fundamental ethical principles and how philosophers have thought about morals—both about normative ethics (about what people ought to do) and about meta-ethics (about the nature of morals or ethics). Examines the theoretical basis of ethics and then focuses on applied ethical problems in selected disciplines such as psychology, healthcare, business, education, and law.

PHIL 3213 **3 CR (3 LEC) IRREGULAR**
BUSINESS ETHICS
Prerequisites: PHIL 2753 Introduction to Philosophy or PHIL 3203 Ethics Across the Disciplines or MGMT 3133 Social Responsibility and Ethics
Exploration of normative ethical theories and their application to systemic, corporate and individual practices in business world.

PHIL 3223 **3 CR (3 LEC) IRREGULAR**
MEDICAL ETHICS

Prerequisites: PHIL 2753 Introduction to Philosophy, or PHIL 3203 Ethics Across the Disciplines, or consent of instructor

Examines the ethical dimensions of medical practice with a focus on contemporary moral controversies and concerns.

PHIL 3303 **3 CR (3 LEC) EVEN FALL**
PHILOSOPHY OF THE HUMAN PERSON

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and PHIL 2753 Introduction to Philosophy

Study of the human person from a philosophical point of view, exploring the classical debates about human nature: egoism versus altruism, freedom versus determinism, the mind-body problem, the difference between man and woman, and others.

PHIL 3403 **3 CR (3 LEC) ODD FALL**
PHILOSOPHY OF RELIGION

Prerequisites: PHIL 2753 Introduction to Philosophy or PHIL 3103 Reasoning Across the Disciplines or PHIL 3203 Ethics Across the Disciplines or consent of instructor

A philosophical inquiry into the nature, value, and meaning of religion in human life.

PHIL 4903 **3 CR (3 LEC) IRREGULAR**
PHILOSOPHY: SPECIAL TOPICS

Prerequisite: PHIL 2753 Introduction to Philosophy

Selected topics in philosophy. Offered on demand. May be repeated when topics differ for a total of six hours.

PHIL 493V **1-3 CR (IND STU) IRREGULAR**
PHILOSOPHY: INDEPENDENT STUDY

Prerequisites: senior standing, 15 hours of philosophy, consent of instructor

Selective reading and written project on a topic submitted by the student and approved by the instructor before registration. Open only to students with demonstrated ability to write research papers of superior quality in philosophy. Applicants unknown to the instructor should submit academic transcripts and samples of their research papers in philosophy. May be repeated for a total of six hours.

PHSC Physical Science

PHSC 2501 **1 CR (2 LAB) IRREGULAR**
FUNDAMENTALS OF ASTRONOMY LABORATORY

Prerequisite or corequisite: PHSC 2503 Fundamentals of Astronomy

Application-based activities designed to enhance the students understanding of the night sky through investigation, comparison, and observation. Some outside of class participation in field observation is required.

PHSC 2503 **3 CR (3 LEC) IRREGULAR**
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)

PHSC 2711 **1 CR (2 LAB) FALL, SPRING, SUMMER**
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.

PHSC 2713 **3 CR (3 LEC) FALL, SPRING, SUMMER**
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)

PHYE Physical Education

PHYE 1011 **1 CR (2 ACT) FALL, SPRING**
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.

PHYE 1021 **1 CR (2 ACT) FALL, SPRING**
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.

PHYE 1101 **1 CR (2 ACT) IRREGULAR**
HEALTH CONCEPTS

Individualized, self-paced program teaches basic lifetime exercise skills and health-related activities.

PHYE 1261 **1 CR (2 ACT)**
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.

PHYE 1271 **1 CR (2 ACT)**
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 off campus.

PHYE 1502 **2 CR (2 LEC) FALL**
SPORTS FUNDAMENTALS

Basic techniques, materials, teaching aids, and rules of football and basketball are discussed in this course.

PHYE 1551 **1 CR (2 ACT) IRREGULAR**
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 off campus. There is a nominal green fee required.

PHYE 1561 **1 CR (2 ACT) FALL, SPRING**
MARTIAL ARTS I
The fundamentals of martial arts are covered. Instruction is given in rules and etiquette, and students participate in each activity.

PHYE 1571 **1 CR (2 ACT) FALL, SPRING**
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.

PHYE 1621 **1 CR (2 ACT) FALL, SPRING**
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.

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

PHYE 2353 **3 CR (3 LEC) FALL**
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.

PHYE 2571 **1 CR (2 ACT)**
MARTIAL ARTS III
Prerequisite: PHYE 1571 Martial Arts II
Continues basics from Martial Arts I and II. Starts executing pressure-point strikes with hand and foot. There will be a new form, 45 new techniques, and double-kicking. Participation is mandatory. Emphasis will be on pressure points on the body and how to strike with different parts of the hands and feet. The previous 15 techniques in Martial Arts I and II will now be done in a sparring situation with mid-level throws and falls.

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

PHYE 2853 **3 CR (3 LEC) FALL, SPRING**
HEALTH AND SAFETY
A study of individual and group health problems, including diet; mental health; medical care; community health services; drug, tobacco, and alcohol abuse; and reproduction, venereal disease, and other health subjects. (ACTS: HEAL 1003)

PHYS Physics

PHYS 2803 **3 CR (3 LEC) FALL**
COLLEGE PHYSICS I
Prerequisites: MATH 1403 College Algebra and MATH 1453 Plane Trigonometry or higher-level MATH course
A fundamental course for students in pre-medicine, pre-dentistry, and other areas in which a basic introduction to mechanics, wave motion, sound, and heat is needed. (ACTS: PHYS 2014; must complete PHYS 2803/2811)

PHYS 2811 **1 CR (2 LAB) FALL**
COLLEGE PHYSICS I LABORATORY
Prerequisite or corequisite: PHYS 2803 College Physics I
Includes basic experiments demonstrating physical principles of mechanics, heat, and wave motion.

PHYS 2823 **3 CR (3 LEC) SPRING**
COLLEGE PHYSICS II
Prerequisite: PHYS 2803 College Physics I
A fundamental course for students in pre-medicine, pre-dentistry, and other areas in which a basic introduction to electricity, magnetism, light, and modern physics is needed. (ACTS PHYS 2024; must complete PHYS 2823/2831)

PHYS 2831 **1 CR (2 LAB) SPRING**
COLLEGE PHYSICS II LABORATORY
Prerequisite or corequisite: PHYS 2823 College Physics II
Basic experiments demonstrating physical principles of electricity, magnetism, light, and modern physics.

PHYS 2903 **3 CR (3 LEC) FALL, SPRING**
UNIVERSITY PHYSICS I
Prerequisite or corequisite: MATH 2804 Calculus I
A calculus-based introductory physics course for scientists and engineers that covers Newton's laws of motion; conservation laws for momentum, energy, and angular momentum; fluid statics and dynamics; laws of thermodynamics. . (ACTS: PHYS 2034; must complete PHYS 2903/2911)

PHYS 2911 **1 CR (2 LAB) FALL, SPRING**
UNIVERSITY PHYSICS I LABORATORY
Prerequisite or corequisite: PHYS 2903 University Physics I
Basic experiments demonstrating physical principles of mechanics, heat, thermodynamics, and wave motion.

PHYS 2923 **3 CR (3 LEC) FALL, SPRING**
UNIVERSITY PHYSICS II
Prerequisites: PHYS 2903/2911 University Physics I/ Laboratory
Prerequisite or corequisite: MATH 2854 Calculus II
Continuation of University Physics I in which electric fields and DC circuits; magnetic fields, electromagnetic induction and AC circuits; oscillations and waves, Maxwell's equations; and geometrical and physical optics will be covered. (ACTS: PHYS 2044; must complete PHYS 2923/2931)

PHYS 2931 **1 CR (2 LAB) FALL, SPRING**
UNIVERSITY PHYSICS II LABORATORY
Prerequisite: PHYS 2903/2911 University Physics/Laboratory
Prerequisite or corequisite: PHYS 2923 University Physics II
Included are basic experiments demonstrating physical principles of electricity, magnetism, and light.

PHYS 2933 **3 CR (3 LEC) IRREGULAR**
UNIVERSITY PHYSICS III
Prerequisite: PHYS 2923 University Physics II

An introduction to relativity and relativistic mechanics; quantum theory with applications to atomic and molecular physics; condensed matter physics; nuclear and particle physics.

PHYS 3103 **3 CR (3 LEC) IRREGULAR**
MODERN PHYSICS
Prerequisite: PHYS 2923 University Physics II
Emphasizes the physics of this century. Topics include relativistic collisions, elementary particle physics, particle-wave duality, philosophical interpretations of quantum theory, and solutions to the Schroedinger equation for simple bound-state and scattering problems.

PHYS 3203 **3 CR (3 LEC) IRREGULAR**
MATH METHODS IN SCIENCE I
Prerequisite: PHYS 2923 University Physics II
Infinite series and complex numbers, vector analysis, coordinate systems, matrices and determinants, and complex analysis will be used as problem solving tools.

PHYS 3303 **3 CR (3 LEC) IRREGULAR**
MATH METHODS IN SCIENCE II
Prerequisite: PHYS 3203 Math Methods in Science I
Continuation of Math Methods of Science I. Fourier series, calculus of variations, tensor analysis, special functions, and series solutions of differential equations, partial differential equations, and integral transforms will be used as problem solving tools.

PHYS 3403 **3 CR (3 LEC) IRREGULAR**
CLASSICAL MECHANICS
Prerequisite: PHYS 2923 University Physics II
Mathematically rigorous treatment of classical mechanics, with emphasis on sophisticated problem solving. It builds on material from previous courses in mathematical physics and continues the introduction to mechanics the student was introduced to in University Physics.

PHYS 3503 **3 CR (3 LEC) IRREGULAR**
CLASSICAL THERMODYNAMICS
Prerequisite: PHYS 2923 University Physics II
Begins with the definition of the thermodynamic variables and will use these to define: equations of state, thermal equilibrium, the laws of thermodynamics with application to special systems including the ideal gas, the van der Waals gas, the Carnot cycle, heat engines, magnetic systems, phase transitions, and superfluids.

PHYS 3803 **3 CR (3 LEC) IRREGULAR**
PRINCIPLES OF ELECTRICITY AND MAGNETISM
Prerequisite: PHYS 2923 University Physics II
Introduces the modern theory of classical electrodynamics. Uses the tools of vector calculus for solving static and dynamic properties of electromagnetic fields.

PLA Prior Learning Assessment

PLA 3003 **3 CR (3 LEC) FALL, SPRING**
PRIOR LEARNING PRACTICES
Prerequisite: admission into the adult degree completion program
Examines prior learning assessment models and how to effectively document prior learning gained from workplace experiences, training programs, military training, and certification programs. Students are guided through the preparation and compilation of all components of the evaluation of prior learning through the development of a professional portfolio.

POLS Political Science

POLS 2753 **3 CR (3 LEC) FALL, SPRING**
AMERICAN NATIONAL GOVERNMENT
A study of the narrow and the broad aspects of American government. Areas of concentration include, but are not limited to, political behavior, Congress, the judicial system, bureaucracy, the executive branch, and intergovernmental relations. (ACTS: PLSC 2003)

POLS 2753H **3 CR (3 LEC) IRREGULAR**
AMERICAN NATIONAL GOVERNMENT (HONORS)
Prerequisite: acceptance into the Miles Friedman Honors program or consent of instructor
An honors course where students engage the various institutions, forces, factors, and trends of American government and politics with emphasis on judicial process and United States Supreme Court cases (both historic and contemporary).

POLS 2853 **3 CR (3 LEC) FALL, SPRING**
STATE AND LOCAL GOVERNMENT
Study of organizations and functions of state and local governments and political parties in the United States, intergovernmental relations, administrations, and adjudication. (ACTS: PLSC 2103)

POLS 3103 **3 CR (3 LEC) SPRING**
COMPARATIVE POLITICAL INSTITUTIONS
Prerequisite: POLS 2753 American National Government
A study of governments around the world.

POLS 3113 **3 CR (3 LEC) SPRING**
PUBLIC POLICY
Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition
The study of the evolution of policy-making in the United States, theories of policy-making, the policy process, and substantive policy issues.

POLS 3123 **3 CR (3 LEC) FALL**
THE AMERICAN PRESIDENCY
Prerequisite: POLS 2753 American National Government
The study of the American Presidency.

POLS 3133 **3 CR (3 LEC) FALL**
THE UNITED STATES CONGRESS
Prerequisite: POLS 2753 American National Government
The study of the evolution of the United States Congress, its structure, the activities of its members, and the way legislation proceeds.

POLS 3143 **3 CR (3 LEC) FALL**
THE UNITED STATES SUPREME COURT
Prerequisite: POLS 2753 American National Government
Study of the United States Supreme Court and constitutional interpretation.

POLS 3153 **3 CR (3 LEC) SPRING**
INTERNATIONAL RELATIONS
Prerequisite: POLS 2753 American National Government
An introduction to the institutions, policies and history that have shaped the relations between nations in the 20th and 21st

centuries. Examines the topic from various theoretical and historical perspectives.

POLS 3403 — 3 CR (3 LEC) SPRING
POLITICAL PHILOSOPHY

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition or PHIL 2753 Introduction to Philosophy

Study of the nature of political institutions and their philosophical and theoretical foundations from ancient times to the present.

POLS 3603 — 3 CR (3 LEC) FALL
PUBLIC ADMINISTRATION

Prerequisite: POLS 2753 American National Government

An overview of the structure and function of American bureaucracy at all levels of government.

POLS 3803 — 3 CR (3 LEC) IRREGULAR
SOCIAL RESEARCH METHODS AND STATISTICS

Prerequisites: senior standing, fifteen hours of POLS coursework, and STAT 2503 Probability and Statistics I, or consent of department head

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

POLS 4103 — 3 CR (3 LEC) IRREGULAR
AMERICAN CAMPAIGNS AND ELECTIONS

Prerequisite: POLS 2753 American National Government

Examines the major stages of political campaigns with a focus on how political campaigns use media to sell candidates and issues to the voters. Reviews and presents strategies and tactics of successful and unsuccessful political campaigns.

POLS 4803 — 3 CR (3 LEC) IRREGULAR
SEMINAR IN POLITICAL SCIENCE

Prerequisites: senior standing, fifteen hours of POLS coursework, and POLS 3803 Social Research Methods and Statistics

Advanced study of a topic in political science. Includes a major research and writing project analyzing a research question in the field of political science.

POLS 4813 — 3 CR (3 LEC) IRREGULAR
GLOBAL STUDIES

Prerequisites: POLS 3103 Comparative Political Institutions, POLS 3153 International Relations, SOCI 2753 Introduction to Sociology, or consent of department head and junior standing

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 SOCI 4813, and may only be taken once for credit.

POLS 490V — 1-3 CR (VARIABLE) IRREGULAR
POLITICAL SCIENCE: SPECIAL TOPICS

Prerequisite: POLS 2753 American National Government

Specialized study of selected topics in political science. Topics may include the constitution; congress; political parties; political theory; or the presidency. May be repeated when topics differ for a total of nine hours.

POLS 495V — 3-9 CR (INT/PRAC) IRREGULAR
POLITICAL SCIENCE INTERNSHIP

Prerequisites: junior standing, six hours of POLS coursework, and consent of department head

Field experience with a political or government related institution or agency, supervised by an individual at the internship agency and a member of the political science faculty. Internships are administered through the department head. May be repeated for a maximum of nine hours.

PRFS Professional Studies

PRFS 3203 — 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO LOGISTICS OPERATIONS

Prerequisite: junior standing or consent of department head

Introduction to logistics operations. Students examine the differences between service and manufacturing sectors and how both use logistics and operations techniques. Focus is on understanding how different areas work together to produce and deliver goods and services.

PRFS 3533 — 3 CR (3 LEC) FALL, SPRING
WORKPLACE AND ENVIRONMENTAL SAFETY

Prerequisite: consent of department head

Topics include accident prevention, statistics, costs, safety performance appraisal, and recognition of industrial hazards. Tools will be used to assess working conditions and make recommendations for ergonomic issues and workplace safety. Referencing the requirements of regulatory agencies, the student will document compliance and prepare reports.

PRFS 3833 — 3 CR (3 LEC) SPRING
DIVERSITY AND INCLUSION

Prerequisite: consent of department head

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

PRFS 4033 — 3 CR (3 LEC) FALL, SPRING
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.

PRFS 4133 — 3 CR (3 LEC) FALL, SPRING
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.

PRFS 4203 — 3 CR (3 LEC) SPRING
LEAN SYSTEMS IMPLEMENTATION

Prerequisite: junior standing or consent of department head

Provides methods used to plan and implement lean systems in complex business operations, including a stepped approach to implementing improvements. The value of lean tools and sequencing efforts for the best chance of a successful transition to a lean system are explored.

PRFS 4433 **3 CR (3 LEC) FALL, SPRING**
QUALITY SYSTEMS

Prerequisite: consent of department head

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

PRFS 4633 **3 CR (3 LEC) FALL, SPRING**
SUPERVISING BUSINESS OPERATIONS

Prerequisite: consent of department head

Interdisciplinary study of organizational theory and human behavior within a business with special attention on management leadership responsibilities.

PRFS 4703 **3 CR (3 LEC) FALL**
PRODUCTION PLANNING AND SCHEDULING

Prerequisites: PRFS 4133 Project Management and senior standing, or consent of department head

Introduction to basic techniques of scheduling, manufacturing planning and control; just-in-time systems; capacity management; master production scheduling, single machine processing; scheduling heuristics and intelligent scheduling systems.

PRFS 4713 **3 CR (3 LEC) FALL, SPRING**
BUSINESS LOGISTICS

Prerequisite: senior standing or consent of department head

An analysis of the logistics function as a total system including inventory, transportation, order processing, warehousing, material handling, location of facilities, customer service, and packaging. Trade-offs and the interaction of various system components are explored.

PRFS 4733 **3 CR (3 LEC) FALL**
TRANSPORTATION AND DISTRIBUTION

Prerequisite: junior standing or consent of department head

Provides an overview of using transportation and distribution to successfully integrate supply, operations, strategy, distribution, and customer service. Students will learn how to analyze and improve necessary logistics processes to effectively deliver products and services to customers.

PRFS 4743 **3 CR (3 LEC) IRREGULAR**
HUMAN FACTORS AND ERGONOMICS

Prerequisite: PRFS 3533 Workplace and Environmental Safety or consent of department head

An examination of human-machine systems and the characteristics of people that affect system performance. Topics include systems analysis, and the perceptual, cognitive, physical, and social strengths and limitations of human beings.

PRFS 4813 **3 CR (3 LEC) FALL**
LEAN SIX SIGMA IMPROVEMENT

Prerequisite: PRFS 4433 Quality Systems and either senior standing or consent of department head

Study of Lean Six Sigma concepts to optimize a business operation by reducing waste and variation. Tools used in course activities include the DMAIC process, Value Stream Mapping, workplace organization, and analysis of variation. Students will learn how to manage a Lean Six Sigma implementation.

PRFS 4903 **3 CR (3 LEC) FALL, SPRING**
LEADING CHANGE PROJECT CAPSTONE

Prerequisite: senior standing or consent of department head

Integrates previous course concepts in a logistics and operations project. Focus is on skills and knowledge a logistics or operations professional uses to strengthen and grow their organization. Students examine an organization and develop a correction plan for identified problems.

PRFS 490V **1-5 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS

Prerequisite: consent of department head

Specialized study of various topics in professional studies. May be repeated, when topics differ, for a total of nine hours.

PRFS 495V **1-3 CR (INT/PRAC) IRREGULAR**
PROFESSIONAL STUDIES INTERNSHIP

Prerequisites: bachelor of applied science major with senior standing, cumulative GPA of 2.5, and consent of department head

Provides work experience in an area business with on-site supervision and instructor observation.

PSYC Psychology

PSYC 1001 **1 CR (1 LEC) FALL, SPRING, SUMMER**
PSYCHOLOGY ORIENTATION

Prepares student for academic success in college and psychology. Includes the University resources, study skills for college, introduction to the profession of psychology as a science, expectations of the degree plan, and an introduction to scientific writing. Required for psychology majors.

PSYC 1163 **3 CR (3 LEC) FALL, SPRING, SUMMER**
GENERAL PSYCHOLOGY

Introduction to basic principles and theories of human behavior. Investigates the biological bases of human behavior, learning and memory, perception, human development across the life-span, personality, motivation and emotions. (ACTS: PSYC 1103)

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

Prerequisite: acceptance into Miles Friedman Honors 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.

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

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

Introduction to the use of data in answering empirical questions about human behavior. Emphasis on the development of statistical thinking and basic concepts of statistical analysis relevant to typical issues in the behavioral sciences. Analysis includes probability and hypothesis testing, descriptive and basic inferential statistics, and confidence intervals. Course is equivalent to STAT 2503 Probability and Statistics I.

PSYC 2613 3 CR (3 LEC) FALL, SPRING
RESEARCH METHODS IN PSYCHOLOGY

Prerequisites: PSYC 1163 General Psychology, PSYC 2513 Introduction to Behavioral Statistics or STAT 2503 Probability and Statistics I, and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition

Introduces various methodologies used in conducting scientific research in psychology, both animal and human. Discusses ethical conduct in research with in-depth ethics training; database searches; review of empirical research literature; scientific writing; experimental design; data gathering and interpretation; and the evaluation of the strengths and weaknesses of various research methods. Requires writing a basic research proposal.

PSYC 2803 3 CR (3 LEC) FALL, SPRING, SUMMER
HISTORY AND SYSTEMS OF PSYCHOLOGY

Prerequisite: PSYC 1163 General Psychology.

Prerequisite or corequisite: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition

Critically investigates the history of traditional and contemporary theories and systems of psychology. Includes structuralism, functionalism, behaviorism, Gestalt psychology, and psychoanalysis. Emphasizes the integration of current theoretical trends.

PSYC 2963 3 CR (3 LEC) FALL, SPRING, SUMMER
DEVELOPMENTAL PSYCHOLOGY: A LIFE SPAN

Prerequisite: PSYC 1163 General Psychology

Prerequisite or corequisite: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition

Comprehensive view of the individual at each stage of growth. Biological, cognitive, social and emotional aspects of growth from conception through geriatrics. (ACTS: PSYC 2103)

PSYC 3123 3 CR (3 LEC) IRREGULAR
APPLIED PSYCHOLOGY

Prerequisites: PSYC 1163 General Psychology and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition

Principles of human behavior as applied to a variety of problems regarding mental and physical health, communication, motivation, and the legal system. Psychological tests and techniques used in industry and governmental settings are discussed. Career planning in psychology is reviewed.

PSYC 3133 3 CR (3 LEC) FALL, SPRING, SUMMER
SOCIAL PSYCHOLOGY

Prerequisites: PSYC 1163 General Psychology and ENGL 1213 Composition II or ENGL 1233 Honors Composition

Various theories concerning the interrelationships of social structure and the behavior of individuals to include human aggression, prejudice, attraction, persuasion, self- perception, and conformity are examined.

PSYC 3173 3 CR (3 LEC) FALL, SPRING
INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY

Prerequisites: PSYC 1163 General Psychology and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition

Psychological principles of prediction, performance criteria, job analysis, employee training and evaluation, effective work environment, management, motivation, and job satisfaction. Recommended for those interested in applied psychology, human resources, or pursuing business degrees.

PSYC 3183 3 CR (3 LEC) FALL, SPRING, SUMMER
COGNITIVE PSYCHOLOGY

Prerequisites: PSYC 1163 General Psychology and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition

Theories and research of human information processing to include attention, memory, problem solving, information representation, and individual differences in cognitive ability.

PSYC 3414 4 CR (3 LEC, 2 LAB) IRREGULAR
CLINICAL PSYCHOLOGY I

Prerequisite: PSYC 3613 Experimental Psychology.

Prerequisite or corequisite: PSYC 4223 Psychology of Personality

Introduction to mental illness diagnoses, and to the concepts and methods of clinical psychology including the fundamentals of abnormal psychology, clinical assessment, psychotherapy and professional activities of clinical psychologists. Includes a lab component designed to teach application of introductory level tests and measurements to the clinical assessments.

PSYC 3503 3 CR (3 LEC) FALL
BEHAVIORAL STATISTICS

Prerequisite: PSYC 2613 Research Methods in Psychology

Prerequisite or corequisite: PSYC 3613 Experimental Psychology

Descriptive and inferential statistics used in conducting behavioral research; the collection and analysis of data; hypothesis testing; and application of various statistical methodologies. Computer spreadsheets and other electronic programs are used.

PSYC 3613 3 CR (3 LEC) FALL
EXPERIMENTAL PSYCHOLOGY

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.

PSYC 3653 3 CR (3 LEC) FALL, SPRING
APPLIED RESEARCH IN PSYCHOLOGY

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.

PSYC 3703 3 CR (3 LEC) IRREGULAR
INTRODUCTION TO FORENSIC PSYCHOLOGY

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.

PSYC 3763 — 3 CR (3 LEC) IRREGULAR
ABNORMAL PSYCHOLOGY

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.

PSYC 4133 — 3 CR (3 LEC) FALL, SPRING
PHYSIOLOGICAL PSYCHOLOGY

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 and neuro-degenerative diseases. Brief laboratory exercises.

PSYC 4153 — 3 CR (3 LEC) FALL
CONDITIONING AND LEARNING

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.

PSYC 4223 — 3 CR (3 LEC) FALL
PSYCHOLOGY OF PERSONALITY

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.

PSYC 4233 — 3 CR (3 LEC) IRREGULAR
PSYCHOLOGY OF ADDICTIONS

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.

PSYC 4243 — 3 CR (3 LEC) IRREGULAR
ADOLESCENT PSYCHOLOGY

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.

PSYC 4303 — 3 CR (3 LEC) FALL, SUMMER
SENSATION AND PERCEPTION

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

Examines sensory systems in mammals to illustrate how humans perceive the world through sensory systems. Review of research of visual and auditory systems, chemical systems, and their applications to contemporary living.

PSYC 4613 — 3 CR (3 LEC) IRREGULAR
PSYCHOLOGICAL TESTS AND MEASUREMENTS

Prerequisites: PSYC 1163 General Psychology and STAT 2503 Probability and Statistics I

Introduction to principles of psychological testing and measurement, including reliability, validity and test construction. Surveys major measures of intellectual ability, cognitive performance, and personality. Ethical and cultural issues in development and use of psychological tests are examined.

PSYC 4803 — 3 CR (3 LEC) FALL, SPRING
PSYCHOLOGY SENIOR SEMINAR

Prerequisites: PSYC 4223 Psychology of Personality, six hours of upper level psychology courses and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition

Various topics in human behavior selected by the instructor. May be repeated, when topics differ, for a total of nine hours.

PSYC 4823 — 3 CR (3 LEC) IRREGULAR
PSYCHOLOGY OF HUMAN SEXUALITY

Prerequisites: PSYC 2963 Developmental Lifespan Psychology, PSYC 4223 Theories of Personality, and PSYC 2613 Research Methods, or consent of instructor

Biological and sociological foundations of human sexuality, human reproduction, sexual functioning, psychological sexual disorders, cultural sexual differences, gender roles, stereo-typing, current and controversial topics in sex education, public policy and politics of human sexuality.

PSYC 4923 — 3 CR (2 LEC, 2 LAB) IRREGULAR
CLINICAL PSYCHOLOGY II

Prerequisite: PSYC 3414 Clinical Psychology I and consent of department head

Offers a broad spectrum introduction to the process of clinical diagnoses and guidelines used to determine treatment for mental disorders. Includes supervised field settings (hospitals, mental health agencies, etc.) where clinical services are utilized. Placement opportunities are evaluated by the instructor.

PSYC 493V **1-3 CR (IND STU) IRREGULAR**
PSYCHOLOGY INDEPENDENT STUDY

Prerequisites: psychology major with senior standing, 15 hours of upper-level psychology courses, and consent of instructor/department head

Advanced knowledge and experience in behavioral issues and assessment.

PSYC 494V **3-6 CR (INT/PRAC) FALL, SPRING, SUMMER**
PSYCHOLOGY INTERNSHIP

Prerequisites: psychology major with senior standing and cumulative GPA of 2.8, six hours of upper-level psychology courses, or consent of department head

Supervised field placement settings (hospitals, schools, industry, behavioral services agency, etc.). Content will include knowledge of behavioral theories, technological and communication skills, career development strategies, journaling, oral and written assignments. Supervision by a psychology faculty member and agency liaison. Course may be repeated for a total of six hours with departmental approval.

PSYC 4953 **3 CR (3 LEC) FALL, SPRING**
PSYCHOLOGY CAPSTONE

Prerequisites: senior standing, psychology major, 18 hours upper-level psychology courses

Review and synthesis of the psychology majors knowledge of their chosen field. Preparation of students for graduate school or career entry. The Senior Comprehensive Examination is a requirement.

RADT Radiography

Enrollment in courses beginning with RADT prefix requires admission to the radiography program.

RADT 1104 **4 CR (4 LEC) FALL**
INTRODUCTION TO RADIOGRAPHY

Prerequisites: ENGL 1203 Composition I, MATH 1403 College Algebra, CPR Certification (American Heart Association "CPR for Healthcare Providers" or American Red Cross "CPR for the Professional Rescuer") CHEM 1303 Chemical Principles, and BIOL 2203/2201 Human Anatomy/Laboratory

Prerequisite or corequisite: BIOL 2213/2211 Human Physiology/Laboratory

Corequisites: RADT 1112 Radiographic Procedures I, RADT 1124 Clinical Education I, and RADT 1232 Radiation Physics

Provides a broad overview of the radiological sciences profession. Varied aspects of patient care, legal and ethical concerns, pharmacology, and professional development and organizations are presented.

RADT 1112 **2 CR (1 LEC, 2 LAB) FALL**
RADIOGRAPHIC PROCEDURES I

Prerequisites: ENGL 1203 Composition I, MATH 1403 College Algebra, CPR Certification (American Heart Association "CPR for Healthcare Providers" or American Red Cross "CPR for the Professional Rescuer") CHEM 1303 Chemical Principles, and BIOL 2203/2201 Human Anatomy/Laboratory

Prerequisite or corequisite: BIOL 2213/2211 Human Physiology/Laboratory

Corequisites: RADT 1104 Introduction to Radiography, RADT 1124 Clinical Education I, and RADT 1232 Radiation Physics

Presents the principles of radiographic anatomy, positioning, and terminology necessary to perform standard radiographic procedures. Emphasis given to routine and specialty views of the chest and abdomen along with procedures of the wrist, hand, and fingers.

RADT 1124 **4 CR (20 LAB) FALL**
CLINICAL EDUCATION I

Prerequisites: ENGL 1203 Composition I, MATH 1403 College Algebra, CPR Certification (American Heart Association "CPR for Healthcare Providers" or American Red Cross "CPR for the Professional Rescuer") CHEM 1303 Chemical Principles, and BIOL 2203/2201 Human Anatomy/Laboratory

Prerequisite or corequisite: BIOL 2213/2211 Human Physiology/Laboratory

Corequisites: RADT 1104 Introduction to Radiography, RADT 1112 Radiographic Procedures I, and RADT 1232 Radiation Physics

Provides the student with the opportunity to apply the principles of patient care and positioning concepts learned in the classroom to the performance of radiographic procedures in the clinical setting.

RADT 1204 **4 CR (4 LEC) SPRING**
IMAGE PRODUCTION

Prerequisite: RADT 1232 Radiation Physics

Prerequisite or corequisite: HLTH 1473 Medical Terminology

Corequisites: RADT 1214 Radiographic Procedures II and RADT 1224 Clinical Education II

An introduction of the physics of x-ray production, emission, and the factors influencing quality image production. In-depth study will focus on the x-ray circuit, tube construction, and the factors that influence optimal radiographic technique and image quality.

RADT 1214 **4 CR (2 LEC, 4 LAB) SPRING**
RADIOGRAPHIC PROCEDURES II

Prerequisite: RADT 1112 Radiographic Procedures I

Prerequisite or corequisite: HLTH 1473 Medical Terminology

Corequisites: RADT 1204 Image Production and RADT 1224 Clinical Education II

A continuation of RADT 1112. 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.

RADT 1224 **4 CR (20 LAB) SPRING**
CLINICAL EDUCATION II

Prerequisite: RADT 1124 Clinical Education I

Prerequisite or corequisite: HLTH 1473 Medical Terminology

Corequisites: RADT 1204 Image Production and RADT 1214 Radiographic Procedures II

Provides the student with the necessary clinical education needed in the actual practice of radiography. Rotation will be made between hospitals and clinics as determined by the instructor.

RADT 1232 **2 CR (2 LEC) FALL**
RADIATION PHYSICS

Prerequisites: MATH 1403 College Algebra and CHEM 1303 Chemical Principles

Prerequisite or corequisite: BIOL 2213/2211 Human Physiology/Laboratory

Corequisites: RADT 1104 Introduction to Radiography, RADT 1112 Radiographic Procedures I, and RADT 1124 Clinical Education

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 1312 2 CR (1 LEC, 2 LAB) SUMMER
RADIOGRAPHIC PROCEDURES III

Prerequisite: RADT 1214 Radiographic Procedures II

Corequisites: RADT 1324 Clinical Education III

A continuation of RADT 1214. Designed to study the radiographic anatomy, physiology, and positioning for radiologic examinations of the digestive system, urinary system, and biliary tract. Special or supplementary radiographic studies using contrast media will also be presented.

RADT 1324 4 CR (32 LAB) SUMMER
CLINICAL EDUCATION III

Prerequisite: RADT 1224 Clinical Education II

Corequisite: 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.

RADT 2412 2 CR (1 LEC, 2 LAB) FALL
RADIOGRAPHIC PROCEDURES IV

Prerequisite: RADT 1312 Radiographic Procedures III

Corequisites: RADT 2425 Clinical Education IV and RADT 2432 Principles of Radiation Biology/Protection

Provides the knowledge and skills necessary to perform standard and special procedures in radiography. Instruction is concentrated on exams of the skull and facial bones. Opportunity to apply knowledge will be available in both laboratory and clinical settings..

RADT 2425 5 CR (25 LAB) FALL
CLINICAL EDUCATION IV

Prerequisite: RADT 1323 Clinical Education III

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. Focus is on fluoroscopy studies, urinary system, and the vertebral column in addition to prior competency examinations.

RADT 2432 2 CR (2 LEC) FALL
PRINCIPLES OF RADIATION BIOLOGY/PROTECTION

Prerequisite: RADT 1204 Image Production

Corequisites: RADT 2412 Radiographic Procedures IV and RADT 2425 Clinical Education IV

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

RADT 2502 2 CR (2 LEC) SPRING
IMAGING EQUIPMENT

Prerequisite: RADT 2432 Principles of Radiation Biology/ Protection

Corequisites: RADT 2525 Clinical Education V, RADT 2601 Radiographic Pathology, and RADT 2611 Senior Seminar

Introduces the student to various methods of recording images and relates principles of diagnostic image production and the specific equipment required. Also introduces various advanced imaging techniques and career options in their chosen field.

RADT 2525 5 CR (25 LAB) SPRING
CLINICAL EDUCATION V

Prerequisite: RADT 2425 Clinical Education IV

Corequisites: RADT 2502 Imaging Equipment, RADT 2601 Radiographic Pathology, and RADT 2611 Senior Seminar

A continuation of supervised clinical experiences for the procedures and skills needed in the practice of radiography. Advanced clinical rotations, responsibilities, and expectations are designated.

RADT 2601 1 CR (1 LEC) SPRING
RADIOGRAPHIC PATHOLOGY

Prerequisite: RADT 2412 Radiographic Procedures IV

Corequisites: RADT 2502 Imaging Equipment, RADT 2525 Clinical Education V, and RADT 2611 Senior Seminar

Introduces the nature of disease and the structural and functional changes produced. Presentations will be made on a variety of diseases and their related pathology as it relates to radiographic procedures.

RADT 2611 1 CR (2 LAB) SPRING
SENIOR SEMINAR

Prerequisite: RADT 2412 Radiographic Procedures IV

Corequisites: RADT 2502 Imaging Equipment, RADT 2525 Clinical Education V, and RADT 2601 Radiographic Pathology

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.

READ Reading

READ 3303 3 CR (3 LEC) FALL, SPRING
FOUNDATIONS OF TEACHING READING AND WRITING

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: EDUC 4401 Integrating Health and Physical Education, ELML 3013 Educational Psychology, ELML 3102 Foundations of Clinical Practice, ELML 3203 Introduction to Assessment, and ELML 3302 Learning Environments

Teaching students with emerging literacy skills.

READ 3503 3 CR (3 LEC) FALL, SPRING
METHODS AND MATERIALS FOR TEACHING LITERACY

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: ELML 3202 Practicum I, READ 3803 Literacy Assessment and Intervention, and SPED 3003 Teaching Diverse Learners

Examines methods and materials for teaching literacy and literature.

READ 3803 3 CR (3 LEC) FALL, SPRING
LITERACY ASSESSMENT AND INTERVENTION

Prerequisite: admission to the educator preparation program

Prerequisite or corequisite: ELML 3202 Practicum I, READ 3503 Methods and Materials for Teaching Literacy, and SPED 3003 Teaching Diverse Learners

Provides instruction in assessing and diagnosing K-8 student literacy skills and progress, differentiating instruction to address student needs, and determining the impact of the instruction.

READ 3903 **3 CR (3 LEC) FALL, SPRING**
DISCIPLINARY LITERACY

Prerequisites or corequisites: EDUC 4203 Social Studies Curriculum, Instruction, and Assessment, ELML 4102 Practicum II, and ELML 4303 STEAM Curriculum, Instruction, and Assessment

A study of the role of literacy in the learning process as it relates to specific and interdisciplinary subject areas.

RELI Religion

RELI 2273 **3 CR (3 LEC) IRREGULAR**
OLD TESTAMENT SURVEY

A brief study of the Old Testament. Selected books and passages are given special attention to gain a deeper understanding of the Old Testament.

RELI 2283 **3 CR (3 LEC) IRREGULAR**
NEW TESTAMENT SURVEY

The history of Christianity from the birth of Jesus to the close of the first century. Selected passages from the Gospels, Acts, and the Epistles are studied.

RELI 2303 **3 CR (3 LEC) FALL, SPRING**
WORLD RELIGIONS

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

A survey of the world's major religious traditions.

RHET Rhetoric and Writing

RHET 2863 **3 CR (3 LEC) FALL**
ADVANCED COMPOSITION

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Students read and write a variety of informal and formal essays, with special study of elements of style.

RHET 3103 **3 CR (3 LEC) FALL, SPRING**
EDITING FOR USAGE, STYLE, AND CLARITY

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Students work to improve their writing style and clarity while studying the conventions of standard usage.

RHET 3203 **3 CR (3 LEC) FALL, SPRING**
TEXTUAL RESEARCH METHODS

Prerequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Focuses on textual research, including a review of methods for finding, organizing, evaluating, and synthesizing primary and secondary materials. This course is intended for students in the liberal arts, humanities, and communications.

RHET 3303 **3 CR (3 LEC) EVEN FALL**
RHETORICAL AND TEXTUAL CRITICISM

Prerequisite: RHET 3203 Textual Research Methods or consent of instructor

Survey of various methods for analyzing and evaluating textual rhetoric.

RHET 3403 **3 CR (3 LEC) ODD FALL**
RHETORICS AND POETICS

Prerequisite: RHET 3203 Textual Research Methods or consent of instructor

Instruction in rhetorical and poetical history and theory from classical to contemporary periods, including the history of rhetoric and poetics as disciplines.

RHET 3413 **3 CR (3 LEC) SPRING**
PUBLICATIONS STAFF

Prerequisite: ENGL 2853 Introduction to Creative Writing or RHET 3513 Imaginative Writing or GRDS 2343 Print and Publication Design or consent of instructor

Applause publications staff is a forum by which students of literary and visual arts can test the effects of their work on an audience. The course provides guidance in planning, instigation, overseeing, and reviewing the publication of *Applause,* the creative arts magazine of UAFS

RHET 3503 **3 CR (3 LEC) SPRING**
WRITING ARGUMENTS

Prerequisite: RHET 2863 Advanced Composition or RHET 3103 Editing for Usage, Style, and Clarity or consent of instructor

Advanced instruction in writing arguments in response to a variety of rhetorical situations. Emphasizes persuasive techniques and their ethical implications.

RHET 3513 **3 CR (3 LEC) SPRING**
IMAGINATIVE WRITING

Prerequisite: rhetoric and writing major or creative writing minor, and ENGL 1213 Composition II or ENGL 1233 Honors Composition, or consent of instructor

Emphasizes the major genres of imaginative writing, including fiction and poetry. Workshop, form, and theory of fiction and poetry are among topics covered.

RHET 3603 **3 CR (3 LEC) FALL, SPRING**
WRITING FOR THE WORKPLACE

Prerequisite: ENGL 1213 Composition II or RHET 2863 Advanced Composition, or consent of instructor

Study and practice of workplace communication required of professionals who write as part of their jobs, developing a sense of audience and purpose, writing in teams, and learning problem-solving strategies. Practice writing workplace documents such as memos, letters, email, résumés, and reports.

RHET 3703 **3 CR (3 LEC) ODD FALL**
NONFICTION WRITING

Prerequisite: RHET 2863 Advanced Composition, or RHET 3103 Editing for Usage, Style, and Clarity, or ENGL 2853 Introduction to Creative Writing, or RHET 3513 Imaginative Writing, or consent of instructor

Study and practice of creative nonfiction writing to explore, investigate, and explain ideas, experiences, and perspectives. Includes reading and analyzing creative nonfiction writing and writers. Emphasizes voice, style, and revision in informal nonfiction writing.

RHET 3801 **1 CR (2 LAB) IRREGULAR**
PUBLICATIONS STAFF

Prerequisite: consent of instructor

Provides guidance while students learn to work as a team to publish student media. May be taken for up to four credit hours.

RHET 3903 **3 CR (3 LEC) SPRING**
VISUAL RHETORIC

Prerequisite: RHET 2863 Advanced Composition or RHET 3103 Editing for Usage, Style, and Clarity or consent of instructor

Introduces visual rhetoric, covering its history, current practice, and possible futures. Using a variety of methods, tools and technologies, students will analyze, compose, and critique a variety of visual modes and texts.

RHET 4113 **3 CR (3 LEC) FALL, SPRING**
FICTION WORKSHOP

Prerequisite: RHET 3513 Imaginative Writing or consent of instructor

Advanced work and study in fiction writing, focusing on the techniques of writing novels and short stories, with critical examination of student work as well as relevant models. May be repeated once for credit.

RHET 4123 **3 CR (3 LEC) ODD FALL**
PROFESSIONAL EDITING AND PUBLISHING

Prerequisite: RHET 2863 Advanced Composition or RHET 3103 Editing for Usage, Style, and Clarity or consent of instructor

Teaches the roles of professional editors and publishers and assists students in researching, developing, and editing projects for publication. Includes publication venues such as magazines, e-zines, blogs, and scholarly journals.

RHET 4133 **3 CR (3 LEC) IRREGULAR**
SCRIPT WORKSHOP

Prerequisite: RHET 3513 Imaginative Writing or consent of instructor

Advanced work and study in script writing, focusing on the techniques of writing scripts for film, television, the stage, and other areas, with critical examination of student work as well as relevant models. May be repeated once for credit.

RHET 4143 **3 CR (3 LEC) FALL**
PODCASTING: WRITING AND PUBLISHING

Prerequisite: ENGL 1213 Composition II or consent of instructor

Provides instruction in writing, recording, and editing podcasts. Students will analyze, develop, and edit audio texts for digital and web publications

RHET 4153 **3 CR (3 LEC) FALL, SPRING**
POETRY WORKSHOP

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.

RHET 4173 **3 CR (3 LEC) IRREGULAR**
SPECIAL TOPICS IN CREATIVE WRITING

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 ecofiction, writing historical fiction, and songwriting. May be repeated once for credit.

RHET 4303 **3 CR (3 LEC) SPRING**
THE ART OF THE ESSAY

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, Thoreau, King, Freud, Jung, Gould, Eiseley, and others.

RHET 4503 **3 CR (3 LEC) EVEN FALL**
ARGUING PUBLIC ISSUES

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.

RHET 4523 **3 CR (3 LEC) ODD FALL**
GRANT WRITING

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, affirmative action plans, ISO related documents, annual reports, strategic plans and/or feasibility studies.

RHET 4603 **3 CR (3 LEC) EVEN FALL**
SCIENTIFIC AND TECHNICAL WRITING

Prerequisite: RHET 3503 Writing Arguments or RHET 3603 Writing for the Workplace, or consent of instructor

Advanced study and practice of technical communication with computer applications. Emphasis on scientific and informative discourse and on writing audience-based prose. Focus is on writing in science, engineering, and technical fields.

RHET 4633 **3 CR (3 LEC) SPRING**
WRITING FOR THE WEB

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. Additionally, students will produce a variety of digital and traditional texts using a variety of tools and software.

RHET 4733 **3 CR (3 LEC) IRREGULAR**
SPECIAL TOPICS IN RHETORIC

Prerequisite: RHET 3503 Writing Arguments, or consent of instructor

Theory and practice of rhetoric and writing with topics varying each semester. May be repeated once for credit when topics differ.

RHET 4803 **3 CR (3 LEC) FALL**
SENIOR SEMINAR

Prerequisites: rhetoric and writing major with senior standing, or consent of instructor

Provides a capstone experience for rhetoric and writing majors.

RHET 493V **1-3 CR (IND STU) IRREGULAR**
WRITING: INDEPENDENT PROJECT

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.

RHET 4953 **3 CR (INT/PRAC) IRREGULAR**
WRITING INTERNSHIP

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.

SAS Student Academic Success

SAS 0201 **1 CR (1 LEC) FALL, SPRING**
BRIDGE TO SUCCESS SEMINAR

Prerequisite: consent of department head

Bridge to Success reinforces study strategies and student choices resulting in responsible learners actively engaged in their academic and personal lives. Students who successfully complete this course will have an implementation plan and skills that will lead to success in college and life decisions. Topics include self assessment, personal responsibility, self-motivation, self-management, interdependence, and learning strategies.

SAS 0203 **3 CR (3 LEC) FALL, SPRING**
ON COURSE FOR SUCCESS

Corequisites: 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.

SOCI Sociology

SOCI 2753 **3 CR (3 LEC) FALL AND SPRING**
INTRODUCTION TO SOCIOLOGY

An introduction to the scientific study of human society from a sociological perspective. Examines the basic agents of socialization, the social construction of reality, and the role of social institutions – the family, religion, education, the government, the economy, the media, and health - in shaping people's behavior. Includes an exploration of the sources of social division and inequality within and between societies and the role of collective action in processes of social change. (ACTS: SOCI 1013)

SOCI 2753H **3 CR (3 LEC) FALL**
INTRODUCTION TO SOCIOLOGY (HONORS)

Prerequisite: acceptance into the Miles Friedman Honors program

An introduction to the scientific study of human society from a sociological perspective. Examines the basic agents of socialization, the social construction of reality, and the role of social institutions – the family, religion, education, the government, the economy, the media, and health - in shaping people's behavior. Includes an exploration of the sources of social division and inequality within and between societies and the role of collective action in processes of social change. The course also has a strong focus on international sociological research. (ACTS: SOCI 1013)

SOCI 2853 **3 CR (3 LEC) IRREGULAR**
SOCIAL PROBLEMS

Prerequisite: SOCI 2753 Introduction to Sociology

An introduction to the study of social problems from a quality-of-life perspective. Examines clusters of problems known as deviant behaviors such as drug abuse, violence, and sexual deviance; problems of inequality such as poverty, racism & LGBTQ+ rights; problems in the functioning of social institutions such as unemployment, divorce, and access to education and healthcare; and global problems such as climate change and terrorism. (ACTS: SOCI 2013)

SOCI 2863 **3 CR (3 LEC) IRREGULAR**
INTRODUCTION TO SOCIAL RESEARCH METHODS

Prerequisite: SOCI 2753 Introduction to Sociology and STAT 2503 Probability and Statistics I

Prerequisite or corequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Introduces various methodologies used in conducting scientific research in sociology, both quantitative and qualitative research; develops skills and strategies for beginning research and writing as a process, including finding and evaluating sources on the internet; and discusses ethical conduct in research, interviewing as a relationship, unobtrusive measures, action research, qualitative data, narrative analysis and the relevant aspects of the philosophy of science.

SOCI 3013 **3 CR (3 LEC) SPRING**
SEX AND GENDER

Prerequisite: SOCI 2863 Introduction to Social Research Methods

Prerequisite or corequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Explores the social construction of gender and how gender differs from sex and sexuality. Examines how gender intersects with other social identities such as race, ethnicity, class, sexual orientation, age, and ability. Tracks how social institutions create gendered meanings and inequalities based on sex, gender and sexuality.

SOCI 3113 **3 CR (3 LEC) FALL**
RACE, ETHNICITY, AND INDIGENEITY

Prerequisite: SOCI 2753 Introduction to Sociology

Prerequisite or corequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Explores the social construction of race, ethnicity, and indigenous identities in the United States and in the Fort Smith region. Distinguishes between individual racism and institutional racism and examines white privilege. Tracks the consequences

of prejudice, discrimination, and implicit biases on individuals and groups.

SOCI 3193 3 CR (3 LEC) ODD FALL
INEQUALITY, POVERTY, AND MOBILITY

Prerequisite: SOCI 2753 Introduction to Sociology

Prerequisite or corequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Explores the social construction of race, ethnicity, and indigenous identities in the United States and the Fort Smith region. Distinguishes between individual racism and institutional racism and examines white privilege. Tracks the consequences of prejudice, discrimination, and implicit biases on individuals and groups.

SOCI 3263 3 CR (3 LEC) ODD SPRING
MARRIAGE, FAMILY, AND KINSHIP

Prerequisite: SOCI 2753 Introduction to Sociology

Prerequisite or corequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Explores the diversity of marital, familial, and affinal arrangements. Tracks how frequency of marriage, age at first marriage, number of children, and size of kin group flex in averages and arrangement with economic trends. Examines how they have changed over time and how they vary cross-culturally.

SOCI 3283 3 CR (3 LEC) IRREGULAR
DEATH, DYING, AGEING, AND ABILITY

Prerequisite: SOCI 2753 Introduction to Sociology

Prerequisite or corequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Explores issues associated with death, dying, ageing and ability. Examines social and environmental factors shaping mortality rates, conceptions of illness, ideas of afterlife, and perceptions and reactions to disabilities. Tracks funerary practices, grief and mourning processes, over time and cross-culturally. Compares contemporary and cross-cultural definitions and responses to disabilities.

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

Prerequisites: junior standing and SOCI 2753 Introduction to Sociology

Presentation of new and emerging topics of critical importance to the field of sociology that are not otherwise covered in the curriculum. Topics will be offered periodically based on the recognized needs of the field. May be repeated once for total of six hours.

SOCI 4813 3 CR (3 LEC) IRREGULAR
GLOBAL STUDIES

Prerequisites: SOCI 2753 Introduction to Sociology, POLS 3103 Comparative Political Institutions, POLS 3153 International Relations, or consent of department head and junior standing

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 POLS 4813 and may only be taken once for credit.

SOCI 493V 1-3 CR (IND STU) IRREGULAR
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.

SOWK Social Work

SOWK 2103 3 CR (3 LEC) FALL, SPRING
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.

SOWK 3043 3 CR (3 LEC) FALL, SPRING
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 works' 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.

SOWK 3113 3 CR (3 LEC) FALL
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 developing effective service plans with clients and finding the necessary community resources. All phases of the case management process will be discussed.

SOWK 3413 3 CR (3 LEC) FALL
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.

SOWK 3423 3 CR (3 LEC) SPRING
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.

SOWK 3433 3 CR (3 LEC) SPRING
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.

SOWK 3523 3 CR (3 LEC) FALL
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.

SOWK 3533 3 CR (3 LEC) IRREGULAR
PHOTOGRAPHY AND SOCIAL WORK PRACTICE

Prerequisites: admission to BSW program or consent of instructor

Explores the use of photography, images and snapshots across micro, meso, and macro levels of social work practice.

SOWK 3733 3 CR (3 LEC) SPRING
SOCIAL WORK PRACTICE III

Prerequisite: SOWK 3113 Social Work Practice I

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.

SOWK 3823 3 CR (3 LEC) FALL
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.

SOWK 3833 3 CR (3 LEC) SPRING
GERIATRIC SOCIAL WORK

Prerequisites: admission to the BSW program, or SOWK 3043 Human Behavior in the Social Environment, or consent of department head

A biopsychosocial perspective on the functioning and needs of older adults. Content covers geriatric social work, advocacy, and basic rights unique to elderly patients. Assessment, intervention, abuse and neglect, social support, and issues relating to death and dying will be addressed.

SOWK 3843 3 CR (3 LEC) SPRING
CHILD WELFARE SERVICES

Prerequisite: admission to the BSW program or SOWK 3043 Human Behavior in the Social Environment or consent of instructor

Acquaints students with the role of the generalist social work practitioner in the field of child welfare. An overview of public and private programs that provide services to children is provided. These services include counseling, adoptions, foster care, residential care, school based services, court services, and U.S. legislation and laws regarding child welfare services.

SOWK 3853 3 CR (3 LEC) SPRING
SOCIAL WORK VALUES AND ETHICS

Prerequisites: admission to the BSW program

Prerequisite or corequisite: PHIL 2753 Introduction to Philosophy

Prepares students with the knowledge base required to identify ethical issues, the skills necessary to resolve ethical dilemmas, and the capacity to make ethical decisions when confronted with conflicting duties and choices that occur within the context of professional social work at all levels of practice.

SOWK 390V 1-6 CR (VARIABLE) IRREGULAR
SOCIAL WORK: SPECIAL TOPICS

Prerequisites: social work major with junior standing or consent of instructor

Examines new and emerging topics in the social work profession 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.

SOWK 4613 3 CR (3 LEC) FALL
RESEARCH METHODS IN SOCIAL WORK

Prerequisites: admission to the BSW program, and STAT 2503 Probability and Statistics I or PSYC 2513 Introduction to Behavioral Statistics

Prepares students to develop an understanding of the approaches, techniques, and challenges of conducting social work research and to read, critically evaluate, and use the research of others to select interventions that are based on evidence. Enables students to be competent and discerning consumers of research in the social work literature.

SOWK 4623 3 CR (3 LEC) FALL
SOCIAL WORK AND SUBSTANCE ABUSE

Prerequisites: admission to the BSW program or SOWK 3043 Human Behavior in the Social Environment or consent of instructor

Provide students with the knowledge, skills, and sensitivity to become effective generalist social work practitioners in the area of substance abuse. Focuses on a general overview of the substance abuse field, prominent theories and models used in substance abuse practice.

SOWK 4633 3 CR (3 LEC) IRREGULAR
WORKING WITH VETERANS AND MILITARY FAMILIES

Prerequisites: SOCI 2753 Introduction to Sociology and PSYC 1163 General Psychology, or consent of instructor

Explores the biological, psychological, social, and spiritual aspects of military service for veterans and families as well as evidence-based strategies to improve post-service readjustment.

SOWK 4903 **3 CR (3 LEC) FALL**
FIELD INSTRUCTION I (SEMINAR)
Prerequisites: BSW major with senior standing and consent of department head
Corequisite: SOWK 4914 Social Work Practicum I
Discussion and integration of experiences from SOWK 4914.

SOWK 4913 **3 CR (3 LEC) SPRING**
FIELD INSTRUCTION II (SEMINAR)
Prerequisites: SOWK 4903 Field Instruction I and SOWK 4914 Social Work Practicum I
Prerequisite or corequisite: SOWK 3853 Social Work Values and Ethics
Corequisite: SOWK 4924 Social Work Practicum II
Advanced discussion and integration of experiences from SOWK 4924.

SOWK 4914 **4 CR (14 LAB) FALL**
SOCIAL WORK PRACTICUM I
Prerequisites: BSW major with senior standing and consent of department head
Corequisite: SOWK 4903 Field Instruction I (Seminar)
An approved, supervised, professional foundation field placement in direct social work practice in a community agency setting. A minimum of 14 hours per week, including the integrative lecture unit SOWK 4903.

SOWK 4924 **4 CR (14 LAB) SPRING**
SOCIAL WORK PRACTICUM II
Prerequisites: SOWK 4903 Field Instruction I (Seminar) and SOWK 4914 Social Work Practicum I
Corequisite: SOWK 4913 Field Instruction II (Seminar)
An approved professional foundation field placement in direct social work practice in a community agency setting. A minimum of 14 hours per week, including the integrative lecture unit SOWK 4913.

SPAN Spanish

SPAN 1304 **4 CR (3 LEC, 2 LAB) FALL, SPRING, SUMMER**
BEGINNING SPANISH I
Foundation course in the fundamental Spanish language skills – listening comprehension, speaking, reading, writing, and cultural insight. The emphasis is on communication. (ACTS: SPAN 1013)

SPAN 1314 **4 CR (3 LEC, 2 LAB) FALL, SPRING, SUMMER**
BEGINNING SPANISH II
Prerequisite: SPAN 1304 Beginning Spanish I or required placement score
Foundation course in the fundamental Spanish language skills – listening comprehension, speaking, reading, writing, and cultural insight. The emphasis is on communication. (ACTS: SPAN 1023)

SPAN 2303 **3 CR (3 LEC) FALL, SPRING, SUMMER**
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)

SPAN 2313 **3 CR (3 LEC) FALL, SPRING**
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)

SPAN 2323 **3 CR (3 LEC) FALL, SPRING**
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.

SPAN 2833 **3 CR (3 LEC) IRREGULAR**
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.

SPAN 3003 **3 CR (3 LEC) SPRING**
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.

SPAN 3013 **3 CR (3 LEC) SPRING**
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 descriptions, discussions, hypothetical situations, and past and future tenses.

SPAN 3023 **3 CR (3 LEC) EVEN FALL**
SPANISH CONVERSATION
Prerequisite: SPAN 2313 Intermediate Spanish II or SPAN 2323 Intermediate Spanish II for Heritage Speakers
Emphasizes improvement and mastery of oral skills in the Spanish language at an upper intermediate level. Course may be repeated once for a total of six credit hours.

SPAN 3053 **3 CR (3 LEC) IRREGULAR**
CULTURAL READINGS
Prerequisite: SPAN 2313 Intermediate Spanish II or SPAN 2323 Intermediate Spanish II for Heritage Speakers
Development of interpretive and presentational skills through exposure to authentic materials such as short stories and articles.

SPAN 3063 **3 CR (3 LEC) FALL**
ADVANCED COMPOSITION
Prerequisite: SPAN 2313 Intermediate Spanish II or SPAN 2323 Intermediate Spanish II for Heritage Speakers
Focuses on grammar and writing skill, as well as interpretive, presentational, and interpersonal communication.

SPAN 3333 **3 CR (3 LEC) EVEN SPRING**
SPANISH-AMERICAN LITERATURE AND CIVILIZATIONS
Prerequisite: SPAN 3063 Advanced Composition
Explores the literature, history, art, geography, and customs of Spanish America.

SPAN 3343 3 CR (3 LEC) ODD FALL
LITERATURE AND CIVILIZATIONS OF SPAIN

Prerequisite: SPAN 3063 Advanced Composition

Explores the literature, history, culture, geography, and art of Spain.

SPAN 3553 3 CR (3 LEC) IRREGULAR
IMMERSION IN A SPANISH-SPEAKING REGION

Prerequisite: SPAN 1314 Beginning Spanish II or consent of department head

Cultural immersion providing intensive experience with the language, cultural traditions, and social institutions in a Spanish speaking region.

SPAN 4023 3 CR (3 LEC) IRREGULAR
ADVANCED CONVERSATION

Prerequisite: SPAN 3063 Advanced Composition

Emphasizes improvement and mastery of oral skills in interpersonal and presentational communication. Through various interactive activities, students will develop skills in oral communication in the target language involving abstract concepts.

SPAN 4053 3 CR (3 LEC) IRREGULAR
TOPICS IN CULTURE

Prerequisite: SPAN 3063 Advanced Composition

Explores a specific aspect of Spanish and/or Latin-American culture, by focusing on historical, ideological, linguistic, and socials elements of that culture. May be repeated when topics differ for a total of six hours.

SPAN 405V 1-3 CR (VARIABLE) IRREGULAR
SPECIAL TOPICS

Prerequisites: senior standing and consent of department head

Focused study of Spanish linguistics, literature, culture or civilization. May be repeated for a total of six hours.

SPAN 4153 3 CR (3 LEC) IRREGULAR
TOPICS IN LITERATURE

Prerequisite: SPAN 3063 Advanced Composition

Provides an in-depth exploration of a specific aspect of Spanish and/or Latin-American literature. May be repeated when topics differ for a total of six hours.

SPAN 4603 3 CR (3 LEC) IRREGULAR
SPANISH LINGUISTICS

Prerequisite: SPAN 3003 Phonetics and Pronunciation and SPAN 3063 Advanced Composition

An organized presentation of the fundamental areas of Hispanic linguistics, including morphology, phonetics, syntax, semantics, linguistic change, and the variation on linguistics.

SPAN 464V 3 CR (IND STU) IRREGULAR
SPANISH INDEPENDENT STUDY

Prerequisites: senior standing and consent of department head

Provides advanced students with a course of study in an area not covered by departmental course offerings. May be repeated for a total of nine hours.

SPAN 4953 3 CR (INT/PRAC) IRREGULAR
SPANISH INTERNSHIP

Prerequisites: Spanish major with junior standing and consent of faculty advisor

Students are placed in a bilingual governmental, private sector, or non-government setting where they can actively use Spanish and gain practical experience while building their intercultural skills. The emphasis is on individual linguistic and work culture development.

SPAN 4993 3 CR (3 LEC) IRREGULAR
CAPSTONE

Prerequisites: junior standing and SPAN 3063 Grammar and Composition II, or consent of department head

Students will synthesize, integrate, and/or apply their previous knowledge and skills in the creation of a project in Spanish. The emphasis of the capstone experience is to demonstrate mastery rather than acquire new knowledge/skills. At the completion of the course students will share their work with the campus.

SPCH Speech

SPCH 1203 3 CR (3 LEC) FALL, SPRING, SUMMER
INTRODUCTION TO SPEECH COMMUNICATION

Introduces the major areas of human communication, emphasizing public speaking, interpersonal, and small group skills. (ACTS: SPCH 1003)

SPCH 1203H 3 CR (3 LEC) IRREGULAR
INTRODUCTION TO SPEECH COMMUNICATION (HONORS)

Prerequisite or corequisite: HONR 1101 Introduction to Honors International Studies

Introduces the major areas of human communication, emphasizing public speaking, interpersonal, and small group skills. Practical applications in presenting complex ideas and communication across cultures and ideologies.

SPCH 2223 3 CR (3 LEC) SPRING
ADVANCED PUBLIC SPEAKING

Prerequisite: SPCH 1203 Introduction to Speech Communication

Theory and extensive practice in preparing, delivering, and critiquing informative, persuasive, and special-occasion speeches for large groups.

SPCH 3143 3 CR (3 LEC) IRREGULAR
SPECIAL TOPICS IN SPEECH

Prerequisites: SPCH 1203 Introduction to Speech Communication

Study and work in varied topics related to the delivery and reception of spoken language. May be repeated once for credit when topics differ.

SPCH 3203 3 CR (3 LEC) EVEN FALL
CRITICAL LISTENING

Prerequisite: MCOM 2223 Communication Theory or consent of instructor

Basic theories of listening, including contextual, psychological, and logical bases and practice in listening for comprehension, analysis, and evaluation.

SPCH 3213 3 CR (3 LEC) EVEN SPRING
NON-VERBAL COMMUNICATION

Prerequisite: MCOM 2223 Communication Theory or consent of instructor

Theory and practice in non-verbal communication in a variety of contexts, including attention to diversity and global awareness.

SPCH 3223 3 CR (3 LEC) ODD SPRING
ARGUMENTATION AND DEBATE

Prerequisite: MCOM 2223 Communication Theory or consent of instructor

Theory and practice in using the effective employment of argument and debate techniques on a wide variety of topics.

SPCH 3303 3 CR (3 LEC) EVEN FALL
INTERPERSONAL COMMUNICATION

Prerequisite: SPCH 1203 Introduction to Speech Communication

Theory and practice in the skills of conversation, relationship development and maintenance, and conflict resolution; in both face-to-face and mediated settings.

SPCH 3403 3 CR (3 LEC) ODD FALL
SMALL GROUP COMMUNICATION

Prerequisite: SPCH 1203 Introduction to Speech Communication

Theory and practice in small group communication including leadership, group membership, and problem-solving in both face-to-face and virtual settings.

SPCH 4213 3 CR (3 LEC) IRREGULAR
RHETORICAL CRITICISM – ORATORY

Prerequisites: MCOM 2223 Communication Theory or consent of instructor

Theory and practice in analyzing speakers and their speeches using classical and contemporary models of rhetorical criticism.

SPCH 4313 3 CR (3 LEC) ODD FALL
ORAL INTERPRETATION

Prerequisite: SPCH 1203 Introduction to Speech Communication

Theory and practice in performing literature including narrative, poetry, drama, and group genres.

SPED Special Education

SPED 3003 3 CR (3 LEC) FALL, SPRING
TEACHING DIVERSE LEARNERS

Prerequisite: admission to the educator preparation program

Prerequisites or corequisites: ELML 3202 Practicum I, READ 3503 Methods and Materials for Teaching Literacy, and READ 3803 Literacy Assessment and Intervention

Provides teacher candidates with the knowledge base to understand and meet the needs of diverse learners.

SPED 3022 2 CR (2 LEC) FALL, SPRING
SURVEY OF DIVERSE POPULATIONS

Prerequisite: admission to educator preparation program

Corequisite: EDUC 4211 Practicum II and EDUC 3612 Classroom and Behavioral Management

A survey of diverse populations designed to provide a knowledge and understanding of individuals with exceptionality and students from different cultures, and of their special needs within a school program.

SPED 3413 3 CR (3 LEC, 1 LAB) FALL, SPRING
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.

SPED 4403 3 CR (3 LEC, 1 LAB) FALL, SPRING
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.

SPED 4803 3 CR (3 LEC) FALL, SPRING
SPECIAL EDUCATION ACADEMY 101

Prerequisite: admission to the educator preparation program or consent of department head

Addresses essential information for educators teaching special education.

SPED 4813 3 CR (3 LEC, 1 LAB) FALL, SPRING
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.

STAT Statistics

STAT 2503 3 CR (3 LEC) FALL, SPRING, SUMMER
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)

STAT 2503H 3 CR (3 LEC) IRREGULAR
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 Miles Friedman Honors program, including statistical terminology, descriptive data, linear regression, probabilities, probability distributions, discrete and continuous random variables, sampling distributions, point and interval 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)

STAT 2603 3 CR (3 LEC) SPRING
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

STAT 3503 **3 CR (3 LEC) FALL**
MATHEMATICAL STATISTICS I
Prerequisite: MATH 2854 Calculus II and STAT 2503 Probability and Statistics I or STAT 2503H Probability and Statistics (Honors)
Introduction to the theory of probability and statistics using concepts and methods of calculus.

STAT 3703 **3 CR (3 LEC) FALL**
STATISTICAL COMPUTATION
Prerequisite or corequisite: STAT 2603 Probability and Statistics II
Instruction in the use of statistical software, such as R, SPSS, Minitab, Mathlab, or Excel, etc., to analyze real-world data from a variety of disciplines and build on concepts covered in previous statistics courses.

STAT 4103 **3 CR (3 LEC) IRREGULAR**
APPLIED REGRESSION ANALYSIS
Prerequisite: STAT 3703 Statistical Computation
Discussion of simple linear regression, multiple regression, parameter estimation and testing, residual analysis, correlation analysis, analysis of covariance, model selection procedures, polynomial regression, indicator variables, and regression diagnostics.

STAT 4203 **3 CR (3 LEC) IRREGULAR**
NONPARAMETRIC STATISTICS
Prerequisite: STAT 3703 Statistical Computation
The essential ideas and implementations of both traditional and contemporary nonparametric statistical methods of data analysis are covered. Allows students to investigate nonparametric methods on a more in-depth level than in previous courses and apply them to data in their particular disciplines.

STAT 4303 **3 CR (3 LEC) IRREGULAR**
SAMPLING METHODOLOGY
Prerequisite: STAT 3703 Statistical Computation
Covers various sampling design methods, including how to collect and process data, how to use techniques in reducing sampling related errors, and how to prepare questions in surveys.

STAT 4403 **3 CR (3 LEC) IRREGULAR**
TIME SERIES ANALYSIS
Prerequisite: STAT 4103 Applied Regression Analysis
An applied approach to time series analysis. Fundamental time series concepts such as descriptive techniques, probability models, autoregressive processes, moving average processes and forecasting will be covered as well as Box-Jenkins methods and spectral analysis. This course requires the use of computer technology.

STAT 485V **1-3 CR (IND STU) IRREGULAR**
STATISTICS INDEPENDENT STUDY
Prerequisite: consent of department head
Current advanced topics in statistics are explored by students through faculty-guided independent study. Topics are selected based on faculty research specialization and student interest.

STAT 495V **1-3 CR (INT/PRAC) IRREGULAR**
INTERNSHIP IN STATISTICS
Prerequisite: consent of department head
Students obtain practical experience by applying their knowledge of statistics and statistical skills in a professional setting. The student is supervised by a mathematics/statistics faculty member and a liaison from the professional site. This course may be repeated for a total of six hours.

STEM College Preparation for STEM Majors

STEM 1001 **1 CR (1 LEC) FALL, SPRING**
COLLEGE PREPARATION FOR STEM MAJORS
Promotes college success by early development of the skills and attitudes needed to achieve educational and personal goals. Includes successful approaches to studying science and math, effective writing, college orientation and resources, effective organizational and study skills, degree expectations, and career exploration.

SUR Surgical Technology

Enrollment in courses beginning with the SUR prefix requires admission into the surgical technology program.

SUR 1526 **6 CR (6 LEC) FALL**
SURGICAL TECHNOLOGY PROCEDURES I
Prerequisites: American Heart Association's CPR for Healthcare Providers, HLTH 1473 Medical Terminology, BIOL 1153/1151 Biological Science/Laboratory, BIOL 2203/2201 Human Anatomy/Laboratory, BIOL 2503/2501 General Microbiology/Laboratory, MATH 1403 College Algebra or higher MATH, ENGL 1213 Composition II or ENGL 1233 Honors Composition, PSYC 1163 General Psychology, and ITA 1001 Computer - Word Processing
Corequisite: SUR 153A Surgical Technology Practicum I
Introduces students to preparation, sterilization, and disinfection of supplies used in surgery; orientation to the basic concepts of anesthesia and its associated hazards; and the physical, social, spiritual, and psychological needs of the surgical patient.

SUR 153A **10 CR (20 LAB) FALL**
SURGICAL TECHNOLOGY PRACTICUM I
Prerequisites: American Heart Association's CPR for Healthcare Providers, HLTH 1473 Medical Terminology, BIOL 1153/1151 Biological Science/Laboratory, BIOL 2203/2201 Human Anatomy/Laboratory, BIOL 2503/2501 General Microbiology/Laboratory, MATH 1403 College Algebra or higher MATH, ENGL 1213 Composition II or ENGL 1233 Honors Composition, PSYC 1163 General Psychology, and ITA 1001 Computer - Word Processing
Corequisite: SUR 1526 Surgical Technology Procedures I
Students are introduced to the physical environment of the operating suite with selected clinical experiences in the community hospitals. Students have many experiences in the care and use of instruments and surgical supplies, as well as multiple opportunities to scrub for surgical procedures.

SUR 1546 **6 CR (6 LEC) SPRING**
SURGICAL TECHNOLOGY PROCEDURES II
Prerequisites: SUR 1526 Surgical Technology Procedures I and SUR 153A Surgical Technology Practicum I
Corequisite: SUR 155A Surgical Technology Practicum II
Students learn the advanced principles, procedures, and techniques of specific general and speciality surgeries. The course content is correlated with anatomy and physiology, along with the operating room experiences.

SUR 155A **10 CR (20 LAB) SPRING**
SURGICAL TECHNOLOGY PRACTICUM II

Prerequisites: SUR 1526 Surgical Technology Procedures I, SUR 153A Surgical Technology Practicum I

Corequisite: SUR 1546 Surgical Technology Procedures II

Students perform surgical functions in all phases of surgical procedures, acquire a working knowledge of specialty instruments and equipment, and perform circulating duties under direct supervision.

TCHG Technology

TCHG 190V **1-6 CR (VARIABLE) IRREGULAR**
GENERAL TECHNOLOGY WORK-BASED LEARNING

Prerequisite: consent of instructor

Work-based learning is a comprehensive treatment of relevant work experience related to the student's major field of study including cooperative education, apprenticeships, extended job shadowing, internships, and any other systematic, planned work experience. Academic faculty and local employers work together with students to enhance the relationship between classroom instruction and work experience. Faculty sponsor approves the work experience and number of credit hours. May be repeated for a total of six hours.

TCHG 290V **1-5 CR (VARIABLE) IRREGULAR**
GENERAL TECHNOLOGY SPECIAL TOPICS

New and emerging topics in general technology that are not otherwise covered in the curriculum. Topics in these emerging technologies will be offered periodically based on the recognized needs in the field. May be taken two times for up to ten credit hours when topics differ.

THEA Theatre

THEA 1203 **3 CR (3 LEC) FALL**
INTRODUCTION TO THEATRE

An introduction to the practice of theatre as an art form. Emphasis is on the artistic and cultural significance of the theatre and the role of the modern theatrical artist. (ACTS: DRAM 1003)

THEA 1303 **3 CR (2 LEC, 2 STU) SPRING**
ACTING I

Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor

Student studies and applies the techniques of acting. Emphasis on creative self-expression.

THEA 1431 **1 CR (1 PART) FALL, SPRING**
THEATRE PRACTICUM (PERFORMANCE)

Participation in the semester's dramatic productions as a performer and analysis of the performance process.

THEA 1451 **1 CR (1 PART) FALL, SPRING**
THEATRE PRACTICUM (TECHNICAL)

Participation in the semester's dramatic productions in the technical areas with analysis of the technical/design process.

THEA 1503 **3 CR (3 LEC) SPRING**
STAGECRAFT

Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor

Introduction to technical problems in the production of plays: scenery, lighting, sound, costuming, and makeup.

THEA 1711 **1 CR (2 STU) FALL**
STUDIO DANCE I

An introduction to the techniques of ballet and jazz dance, concentrating on solo and group choreography.

THEA 1721 **1 CR (2 STU) SPRING**
STUDIO DANCE II

Prerequisite: THEA 1711 Studio Dance I or consent of instructor

Continuation of THEA 1711 to include tap and modern choreography.

THEA 2313 **3 CR (2 LEC, 2 STU) FALL**
VOICE AND MOVEMENT

Prerequisite: THEA 1303 Acting I or consent of instructor

A study of the production of speech as it applies to standard American English as a spoken language and a study of kinetics as it relates to character development. Designed to improve speech production and the actor's awareness of body movement.

THEA 2513 **3 CR (3 LEC) FALL**
FUNDAMENTALS OF DESIGN

Prerequisite: THEA 1503 Stagecraft or consent of instructor

Introduction to the philosophical, critical, and practical processes of design in theatre stenographic art.

THEA 3313 **3 CR (3 STU) ODD FALL**
ACTING II

Prerequisite: THEA 1303 Acting I or consent of instructor

An intermediate course in acting to develop the actor's choice-making and action/reaction awareness through scene study of various theatrical styles.

THEA 3323 **3 CR (2 LEC, 2 STU) EVEN FALL**
PERSONAL PERFORMANCE

Prerequisite: THEA 1303 Acting I or consent of instructor

Advanced course focused on personal process development and individual artistic expression through character.

THEA 3523 **3 CR (2 LEC, 2 STU) EVEN SPRING**
STAGE MAKEUP

Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor

An overview of the elements of makeup as they relate to the creation of character, focusing on both the design and application of makeup and appliances.

THEA 3533 **3 CR (3 LEC) EVEN FALL**
SCENIC DESIGN

Prerequisite: THEA 2513 Fundamentals of Design or consent of instructor

Study of the scenographic art and its usage in modern theatrical design including application of design elements and scale and perspective rendering.

THEA 3543 **3 CR (3 LEC) ODD FALL**
LIGHTING DESIGN

Prerequisite: THEA 2513 Fundamentals of Design or consent of instructor

Use of light as means of artistic expression, and the study of the controllable properties associated with lighting design.

THEA 3603 **3 CR (3 LEC) SPRING**
DIRECTING I

Prerequisite: THEA 3303 Acting I or consent of instructor

Acquaints the student through study and practice with the problems of producing plays.

THEA 4213 **3 CR (3 LEC) EVEN FALL**
THEATRE HISTORY I

Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor

Study of theatre from its origins up to circa 1800 with a focus on both history and the literature of each time period.

THEA 4223 **3 CR (3 LEC) ODD SPRING**
THEATRE HISTORY II

Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor

The history and literature of the theatre of the last 200 years, including a study of non-western theatre traditions.

THEA 4333 **3 CR (3 LEC) EVEN SPRING**
AUDITIONING

Prerequisite: THEA 3313 Acting II or consent of instructor

Techniques for monologue performance and auditioning for professional theatre. Students will also focus on material selection, script preparation, and resume building.

THEA 446V **1-3 CR (VARIABLE) IRREGULAR**
SPECIAL TOPICS IN THEATRE

Prerequisites: Junior standing or consent of instructor

Presents current or special topics in theatre. Areas chosen are based on faculty expertise and student interest. May be repeated up to three times when topics differ for a maximum of 9 hours.

THEA 4553 **3 CR (3 LEC) ODD FALL**
COSTUME DESIGN

Prerequisite: THEA 2513 Fundamentals of Design or consent of instructor

A study of the elements of costume design as they relate to the visual expression of characters and themes.

THEA 4613 **3 CR (3 LEC) SPRING**
DIRECTING II

Prerequisite: THEA 3603 Directing I or consent of instructor

Presents advanced problems in play direction and production. Students will direct their own one-act play.

THEA 4623 **3 CR (3 LEC) ODD SPRING**
STAGE MANAGEMENT

Prerequisite: THEA 3603 Directing I or consent of instructor

The art of stage management, and the business and administrative elements of play production.

THEA 4713 **3 CR (3 LEC) IRREGULAR**
STUDIES IN ACTING/DIRECTING

Prerequisite: consent of instructor

Special studies in acting or directing. A variable topic course to further explore specific elements of theatre.

THEA 4723 **3 CR (3 LEC) IRREGULAR**
STUDIES IN DESIGN

Prerequisite: consent of instructor

Special studies in design. A variable topic course to further explore specific elements of theatre.

UAS Unmanned Aerial Systems

UAS 1003 **3 CR (3 LEC) FALL, SPRING**
INTRODUCTION TO UNMANNED SYSTEMS

Introduces the student to the history of unmanned aerial systems and provides an overview of the technology.

UAS 1103 **3 CR (2 LEC, 2 LAB) FALL, SPRING**
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.

UAS 1143 **3 CR (2 LEC, 2 LAB) FALL, SPRING**
UAS PILOT FLIGHT OPERATIONS

Prerequisite or corequisite: UAS 1003 Introduction to Unmanned Systems

Basic flight operations and skills will be taught. Prepares student to take the FAA Part 107 Remote Pilot Certificate exam.

UAS 1203 **3 CR (2 LEC, 2 LAB) SPRING**
GPS AND GNSS FUNDAMENTALS

Fundamental concepts of the Global Positioning Systems (GPS) and Global Navigation Satellite Systems (GNSS).

UAS 1213 **3 CR (2 LEC, 2 LAB) SPRING**
COMPUTER HARDWARE

Prerequisite: UAS 1003 Introduction to Unmanned Systems

Introduction to the physical components of a UAS ground control system (GCS), including component concepts, interaction of components, how components respond to software instructions, and basic computer maintenance and troubleshooting.

UAS 2003 **3 CR (2 LEC, 2 LAB) SPRING**
GIS ANALYSIS

Prerequisite: UAS 1103 Introduction to Geographic Information Systems

Prerequisite or corequisite: MATH 1303 College Mathematics and Quantitative Literacy or MATH 1403 College Algebra or higher math

Introduces problem-solving aspects of GIS through data and spatial analysis. Concepts developed include map outputs for GIS projects, fundamentals of raster and 3D data, working with spatial data and analysis, and creating real-world applications. Provides hands-on experience with various GIS analysis techniques.

UAS 2113 **3 CR (2 LEC, 2 LAB) FALL**
UAS MAINTENANCE

Prerequisite or corequisite: ELEC 1242 Introduction to Electronics Technology

Provides students with the knowledge and skills necessary to repair and maintain both fixed- and rotary-wing aircraft during field operations and to ensure continued airworthiness throughout the service life of the aircraft.

UAS 2123 **3 CR (2 LEC, 2 LAB) FALL**
GIS GEODATABASE DESIGN

Prerequisites: UAS 1103 Introduction to Geographic Information Systems and UAS 2003 GIS Analysis

Prerequisite or corequisite: ELEC 1243 Introduction to Programming

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. Topics include design principles, initial creation, modifications, workflow and documentation of the geodatabase design

UAS 2124 4 CR (3 LEC, 2 LAB) FALL, SPRING
MULTI-ROTOR FLIGHT LAB

Prerequisite: UAS 1143 UAS Pilot Flight Operations

Provides flight training on multi-rotor unmanned aircraft. Students will learn to fly multi-rotor UAS starting with a visual simulator and concluding with a photography-grade, student-built multi-rotor aircraft. Specific training on applications of multi-rotor UAS for inspections and aerial filming is emphasized.

UAS 2203 3 CR (2 LEC, 2 LAB) SPRING
LAND SURVEYING AND INFORMATION FUNDAMENTALS

Prerequisite: UAS 1103 Introduction to Geographic Information Systems

Prerequisite or corequisite: UAS 1203 GPS and GNSS Fundamentals

An introduction to land information systems as a management tool for land records. A detailed examination of the principles of land subdivision (PLSS), legal descriptions, transfer of property ownership, coordinate systems, projections and datums, and cadastral mapping using GIS.

UAS 2223 3 CR (2 LEC, 2 LAB) SPRING
RASTER AND 3D SPATIAL ANALYSIS

Prerequisites: UAS 2123 GIS Geodatabase Design and UAS 2203 Land Surveying and Information Fundamentals

Examines the use of remotely sensed data in GIS analysis and presentation. Discussions focus on the electromagnetic spectrum and its characteristics, remote sensing platforms, sources of data and data interpretation. 3D spatial analysis covers the representation of data and spatial areas in three dimensions that can then be graphically analyzed and mapped.

UAS 2243 3 CR (2 LEC, 2 LAB) SPRING
FIXED-WING FLIGHT LAB

Prerequisites: UAS 2113 UAS Maintenance and UAS 2124 Multi-Rotor Flight Lab

Students will learn to fly fixed-wing UAS, starting with a visual simulator and concluding with a student-built aircraft. Students will build a FPV grade fixed-wing aircraft. Specific training on applications of fixed UAS for agricultural operations will be explored.

UAS 2343 3 CR (2 LEC, 2 LAB) SPRING
UAS REMOTE SENSING

Prerequisite: UAS 2223 Raster and 3D Spatial Analysis or UAS 2113 UAS Maintenance

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

UAS 2443 3 CR (2 LEC, 2 LAB) SPRING
UAS AERIAL IMAGING

Prerequisites: UAS 2003 GIS Analysis or UAS 2113 UAS Maintenance

Prerequisite or corequisite: UAS 2343 UAS Remote Sensing

Emphasizes an overall approach to aerial imaging using UAS in industrial and commercial applications. Students will learn how to take aerial photographs/videos of infrastructure, real estate, and industrial sites. Basic photogrammetry techniques and data processing will be taught.

WELD Welding

WELD 1182 2 CR (2 LEC) FALL, SPRING
BLUEPRINT READING FOR WELDERS

Develops basic skills in reading blueprints and introduces students to various types of working drawings for engineering and manufacturing purposes. Emphasis on understanding basic concepts of orthographic projection and the ability to visualize objects.

WELD 1234 4 CR (2 LEC, 4 LAB) FALL, SPRING
INTRODUCTION TO WELDING AND PRINT READING

Major emphasis on shop safety, oxy-fuel set-up, cutting, and shut down, plasma cutting, and arc/MIG/TIG equipment set-up. Develops basic skills in reading blueprints and introduces the student to various types of working drawings for fabrication and manufacturing purposes.

WELD 1284 4 CR (2 LEC, 4 LAB) FALL, SPRING
ARC WELDING–BASIC

Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading

Designed to give students a knowledge of equipment, safety precautions, and shop practice. They will make basic types of fillet welds in most positions and study welding nomenclature, design of joints, and electrode classifications.

WELD 1384 4 CR (2 LEC, 4 LAB) FALL, SPRING
TIG WELDING–BASIC

Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading

In-depth study and practice of the gas tungsten arc-welding process. Techniques of making welds in the flat and horizontal positions are mastered on carbon steel, aluminum, and stainless steel.

WELD 1404 4 CR (2 LEC, 4 LAB) FALL, SPRING
MIG WELDING–BASIC

Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading

In-depth study and practice of the gas metal, arc-welding process. The student will learn the principles of constant voltage power source and the mechanics and maintenance of various wire feeding systems. Practical assignments will include short circuit transfer on mild steel fillet welds in all positions, flux-cored arc welding of fillet welds in all positions, and AWS required workmanship samples.

WELD 1454 4 CR (2 LEC, 4 LAB) FALL, SPRING
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.

WELD 1474 4 CR (2 LEC, 4 LAB) FALL, SPRING
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.

WELD 2282 2 CR (1 LEC, 2 LAB) SUMMER
SMAW CERTIFICATION ASSESSMENT

Prerequisite: WELD 2284 Arc Welding-Advanced

Assesses the student's ability to pass certification tests in shielded metal arc welding by studying the procedures and standards established by the American Welding Society and used in the certification examination.

WELD 2284 4 CR (2 LEC, 4 LAB) FALL, SPRING
ARC WELDING–ADVANCED

Prerequisite: WELD 1284 Arc Welding-Basic

Study and practice of advanced arc welding techniques, using mild steel electrodes in the horizontal, vertical, and overhead positions on structural plate. Emphasis on identifying and analyzing defects in welding joints will be studied.

WELD 2384 4 CR (2 LEC, 4 LAB) FALL, SPRING
TIG WELDING–ADVANCED

Prerequisite: WELD 1384 TIG Welding-Basic

Study and practice of the gas tungsten arc welding process. Techniques of making welds in the vertical and horizontal positions are mastered on carbon steel, aluminum, and stainless steel. American Welding Society workmanship samples will be fabricated and welded as required.

WELD 2402 2 CR (1 LEC, 2 LAB) SUMMER
GMAW CERTIFICATION ASSESSMENT

Prerequisite: WELD 2404 MIG Welding-Advanced

Assesses the student's ability to pass certification tests in gas metal arc welding and flux core arc welding by studying the procedures and standards established by the American Welding Society and used in the certification examination.

WELD 2404 4 CR (2 LEC, 4 LAB) FALL, SPRING
MIG WELDING–ADVANCED

Prerequisite: WELD 1404 MIG Welding-Basic

Study and practice of gas metal arc welding and flux core arc welding on groove welds in all positions. Machine set-up and techniques for ferrous metals, will be practiced. Metal transfers, including short circuit and spray, will be studied and practiced. Shielding gases and their effects on final weld quality will be evaluated. An American Welding Society workmanship sample will be fabricated and welded as required.

WELD 2484 4 CR (2 LEC, 4 LAB) SUMMER
PIPE WELDING

Prerequisite: WELD 2284 Arc Welding-Advanced

Designed to develop skills used in the welding of both transmission pipeline and piping systems. Emphasis is placed on the particular skills needed to meet the standards of the American Welding Society and American Society of Mechanical Engineers.

WELD 290V 1-5 CR (VARIABLE) IRREGULAR
WELDING: SPECIAL TOPICS

Prerequisite: consent of instructor

Designed to give special instruction for new and emerging topics in welding not otherwise covered in the curriculum. Topics in these emerging technologies will be offered periodically based on the recognized needs of the field and the availability of instructors.

WELD 295V 1-4 CR (INT/PRAC) IRREGULAR
WELDING INTERNSHIP

Prerequisite: general technology - welding major with 30 hours completed in program, cumulative GPA of 2.5, and consent of department head

Provides work experience in an area business with on-site supervision and instructor observation.

WELD 299V 1-3 CR (VARIABLE) IRREGULAR
WELDING: SPECIAL PROJECTS

Prerequisite: consent of instructor

Designed for the advanced welding student who has completed or is enrolled in all other appropriate welding courses at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated when topics differ for a total of six hours.

WFL Workforce Leadership

WFL 1173 3 CR (3 LEC) SPRING
TOTAL QUALITY ESSENTIALS

Focuses on three main concepts: the foundation principles of quality management; tools and techniques to drive and support design, control, and improvement of quality; and the organizational view of performance excellence. Quality is relevant and important for today's students and future business leaders, as well as those already in the workforce.

WFL 1183 3 CR (3 LEC) SPRING
OCCUPATIONAL SAFETY

Provides the fundamental tools necessary to manage a safe work environment; coursework includes the exploration of the safety and health movement in the United States, landmark events, root cause, costs and preventions.

WFL 1373 3 CR (3 LEC) FALL, SPRING
HUMAN RELATIONS AND INTERPERSONAL DEVELOPMENT

Designed to develop and improve skills in the area of supervision for individuals employed by business and industry. The emphasis is on the skills needed for effective leadership, including the ability to communicate, to understand human needs, to motivate others, to use authority, and to increase group productivity.

WFL 1703 3 CR (3 LEC) SPRING
BASIC BUSINESS COMMUNICATION USING MICROSOFT OFFICE

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.

WFL 2173 3 CR (3 LEC) SPRING
INTRODUCTION TO LEAN ENTERPRISE SYSTEMS

Examines the concept of achieving a lean enterprise in business and manufacturing operations through exploration of the strategies and philosophies of operating a business.

WFL 2303 3 CR (3 LEC) IRREGULAR
LEAN SIX SIGMA STRATEGIES

Prerequisite: WFL 2173 Introduction to Lean Enterprise Systems or consent of instructor

A study of Lean Six Sigma (LSS) methodologies used to improve company performance with an emphasis in the DMAIC (Define, Measure, Analyze, Improve, Control) approach. The course examines the value of using quality and performance measures to define strategy in accordance with Lean Six Sigma Yellow and Green Belts.

WFL 2403 3 CR (3 LEC) IRREGULAR
ORGANIZATIONAL CONCEPTS

Prerequisite: consent of department head

Looks at organizational skills and analyzes company-wide organizational practices with an emphasis in management techniques.

WFL 2413 3 CR (3 LEC) IRREGULAR
PROJECT MANAGEMENT

Prerequisite: consent of department head

Using project-management tools and fundamental concepts to develop skills in project selection, assessment, analysis, planning, and tracking. Concepts include risk, task, and resource management.

WFL 2501 1 CR (1 LEC) FALL
SET-UP REDUCTION

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.

WFL 2503 3 CR (3 LEC) FALL
FINANCE AND ACCOUNTING FOR NON-FINANCIAL LEADERS

Provides the concepts of financial principals and generally accepted accounting practices to leaders in roles outside of the money-handling roles. Subjects range from simple budgeting tools to the preparation of annual reports.

WFL 2583 3 CR (3 LEC) SUMMER
TEAM DEVELOPMENT

Prerequisite: WFL 1373 Human Relations and Interpersonal Development

Instruction in methods and techniques to build and lead workplace teams to meet organizational strategy including use of measurement systems and feedback delivery.

WFL 2703 3 CR (3 LEC) SPRING
THE SEVEN HABITS OF HIGHLY EFFECTIVE LEADERS

Provides an in-depth analysis of personal and professional effectiveness based on the work of business researcher Steven R. Covey. Students are guided in the process of applying the knowledge of self to the workplace.

WFL 2713 3 CR (3 LEC) IRREGULAR
COMPLEX BUSINESS COMMUNICATION USING MICROSOFT OFFICE

Prerequisite: WFL 1703 Basic Business Communication Using Microsoft Office or ITA 1003 Computer Applications for the Knowledge Worker

Focuses on the use of computer business applications to complete complex written and oral business communications such as customized presentation templates, visual presentation design, complex flow charts and graphics, multi-sheet workbooks, data tracking and analysis, run and control charting, training manuals, and work breakdown structures.

WFL 2723 3 CR (3 LEC) FALL, SPRING
INTRODUCTION TO LOGISTICS

Provides a systems approach to logistics as a key business function that holistically integrates functions such as planning, purchasing, inventory control, transportation and warehousing. Students explore how various aspects of supply chain management are integrated within the organization and applied to deliver superior customer satisfaction.

WFL 2733 3 CR (3 LEC) SPRING
WORKPLACE FOUNDATIONS

Provides students with an opportunity to develop a workplace vocabulary and advance critical and analytical thinking in solving business issues. Business is viewed first by examining national and global factors that influence its development, followed by an exploration of its internal organization.

WFL 2743 3 CR (3 LEC) FALL, SPRING
LEAN SIX SIGMA BLACK BELT

Prerequisite: WFL 2303 Lean Six Sigma Strategies or consent of instructor

Provides the student with a thorough understanding of all aspects of the Lean Six Sigma Method, including a high-level of competence in the subject matters contained within the phases of Define, Measure, Analyze, Improve, and Control. The student will implement, perform, interpret and apply Lean Six Sigma at an advanced level of proficiency.

WFL 280V 1-3 CR (IND STU) IRREGULAR
WORKFORCE LEADERSHIP INDEPENDENT STUDY

Prerequisite: WFL 1373 Human Relations and Interpersonal Development

Individual topics in workforce leadership arranged in consultation with instructor. May be repeated when topics vary for a total of nine hours.

WFL 2852 2 CR (2 LEC) FALL
PROBLEM SOLVING AND DECISION MAKING

Guides students in the tools and techniques of project selection, design, analysis, and presentation of workforce projects. Student will gain knowledge for preparation and implementation of workforce projects which are vital in the quest for continuous improvement.

WFL 290V 1-5 CR (VARIABLE) FALL, SPRING, SUMMER
INDUSTRY SPECIAL TOPICS

Prerequisite: consent of department head

Gives special instruction on new and emerging topics in industry not otherwise addressed. Topics will be offered periodically based on recognized need. Course may be repeated for a maximum of 10 hours toward the AAS in workforce leadership.

WFL 2903 3 CR (3 IND STU) FALL, SPRING, SUMMER
WORKFORCE LEADERSHIP CAPSTONE

Prerequisite: consent of department head

Corequisite: last nine hours of associate program

Independent study project in which student must demonstrate advanced workforce leadership skills with emphasis in project management, lean-enterprise principles, and problem solving using computer applications and team-based initiatives. Student will work with instructor to develop, implement, and report on a project implemented in an organizational environment.

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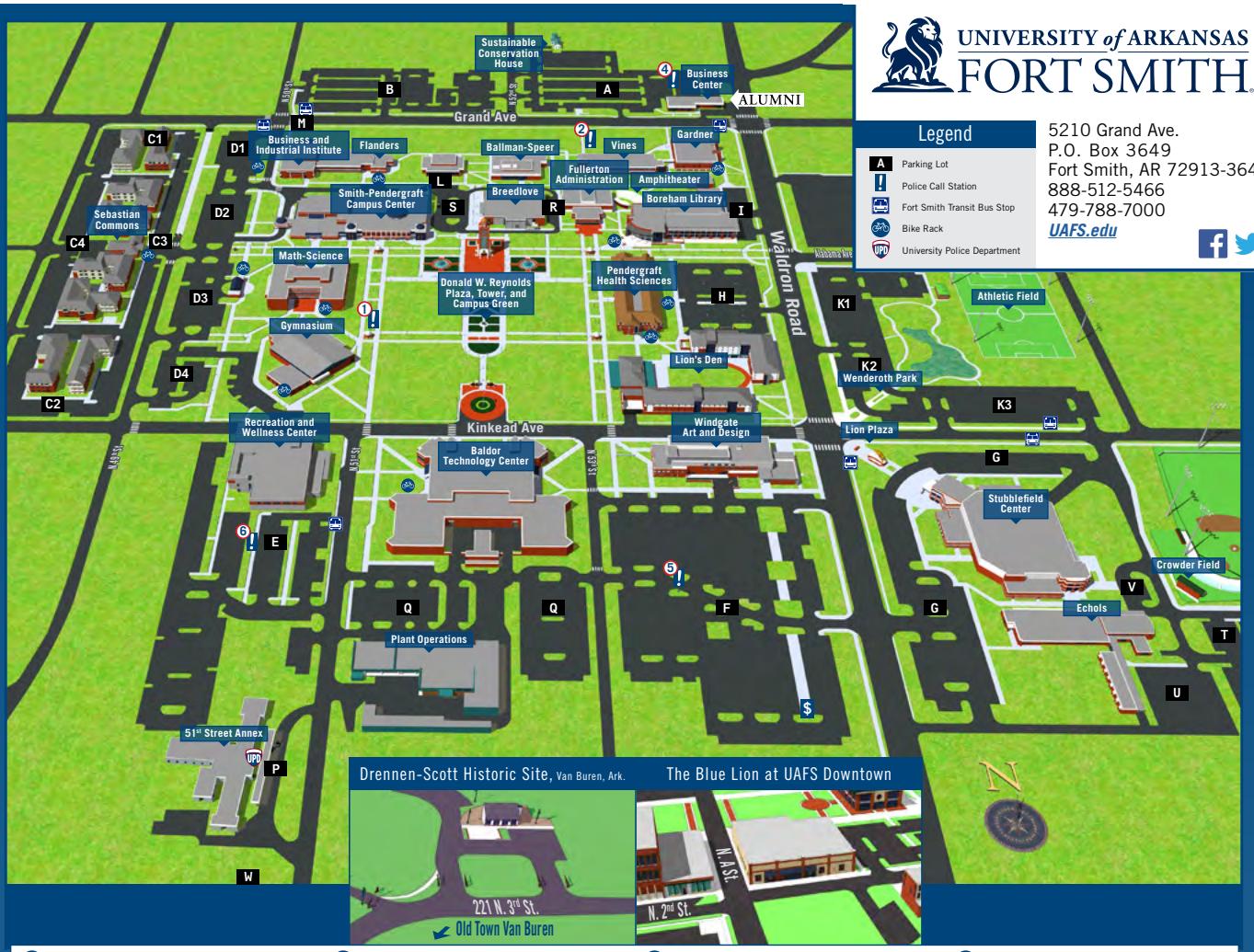
CAMPUS MAP



UNIVERSITY of ARKANSAS FORT SMITH

Legend

- A — Parking Lot
- Police Call Station
- Fort Smith Transit Bus Stop
- Bike Rack
- UPD — University Police Department

5210 Grand Ave.
P.O. Box 3649
Fort Smith, AR 72913-3649
888-512-5466
479-788-7000
UAFS.edu

(AM) Amphitheater

(AN) 51st Annex
- Education Renewal Zone
- ROTC
- University Police Department

(AF) Athletic Field

(BD) Baldor Technology Center
- Dean, College of Applied Science and Technology
- Boreham Conference Center
- Computer and Information Sciences
- Engineering
- Graphic Design
- Western Arkansas Technical Center

(BL) The Blue Lion at UAFS Downtown
- Arvest Gallery

(BS) Ballman-Speer Building
- Art
- Speech

(LI) Boreham Library
- 24-hour Zone Student Lounge
- Doug and Cathy Babb Center for Student Professional Development
- John Lewellen Sr. Outdoor Reading Area
- Library Services
- Student Professional Development Center
- TRIO/Student Support Services

(BB) Breedlove Building
- Auditorium
- Music
- Theatre

(BI) Business and Industrial Institute
- Dean, College of Business
- David L. Bond Conference Room
- Paul Latture Conference Center

(BC) Business Center
- Alumni Center
- Business Services
- Finance, Payroll and Accounting
- Procurement/Travel

(CC) Smith-Pendergraft Campus Center
- Vice Chancellor for Enrollment Management
- Vice Chancellor for Student Affairs
- Associate Vice Chancellor for Campus and Community Events
- Admissions
- Advising and Career Services
- Board Room
- Box Office
- Campus Activities Board
- Cashier
- Dining Services/Food Court
- Enrollment Management
- Financial Aid
- Greek Life
- Intramurals
- Lions Bookstore
- Office of Non-Traditional Students
- Records/Registrar
- Reynolds Room
- The Sally Boreham Gallery
- Student Activities
- Student Government
- Testing Center
- Welcome Center

(CF) Crowder Field

(CG) Donald W. Reynolds Plaza, Tower and Campus Green

(DS) Drennen-Scott Historic Site
- Museum
- Visitor Center

(EC) Echols Building
- Academy of the Arts
- Conference Center
- Institute for Math and Science Education
- Preschool Education

(FL) Flanders Business Center
- Center for Business and Professional Development
- College of Business
- Family Enterprise Center

(FA) Fullerton Administration Building
- Chancellor
- Provost/Senior Vice Chancellor for Academic Affairs
- Vice Chancellor for Finance and Administration
- Vice Chancellor for University Advancement
- Associate Vice Chancellor for Government and University Relations
- Human Resources
- Institutional Effectiveness
- Marketing and Communications
- Mary Tinnin Jaye Gallery of Art
- Public Information
- University Foundation

(GB) Gardner Building
- Social Sciences
- Technology Services

(GY) Gymnasium/Field House
- Health Education Center/Fitness Center

(HS) Pendergraft Health Sciences Center
- Dean, College of Health Sciences
- Dental Hygiene Clinic
- Powell Student Health Clinic
- UAFS Counseling Clinic
- Weidman Center

(LD) Lion's Den
- Residence Hall
  - (a) North Hall
  - (b) South Hall
  - (c) Dining Hall

(LP) Lion Plaza

(MS) Math-Science Building
- Dean, College of Science, Technology, Engineering & Mathematics
- School of Education

(PO) Plant Operations
- Building Maintenance
- Custodial Services
- Document Services/Duplication
- Grounds
- Motor Pool
- Plant Operations Administrative Offices
- Shipping and Receiving
- Telecommunications Services

(RC) Recreation and Wellness Center

(SB) Sebastian Commons
- Student Apartments
  - (a) Bronson
  - (b) Callaway
  - (c) Donoho
  - (d) Furr
  - (e) Hanna
  - (f) Long
  - (g) Orr
  - (h) Wortz

(SC) Stubblefield Center
- Athletics
- Athletic Club
- Bill and "Miss" Wanda Srygley Room

(SH) Sustainable Conservation House

(VB) Vines Building
- Dean, College of Communication, Languages, Arts & Social Sciences
- Criminal Justice
- Gordon Kelley Academic Success Center
- History
- International Relations
- Philosophy
- Psychology
- Student ADA Services
- Upward Bound
- World Languages

(WP) Wenderoth Park

(WB) Windgate Art and Design Building

CAMPUS 911 ADDRESSES

51st Annex	425 N. 51st St.
Athletic Field	5401 Kinkead Ave.
Baldor Technology Center	5100 Kinkead Ave.
Ballman-Speer	5200 Grand Ave.
The Blue Lion at UAFS Downtown	101 N. Second St.
Boreham Library	813 N. Waldron Road
Breedlove	5120 Grand Ave.
Business Center	5317 Grand Ave.
Business Institute/Flanders	5020 Grand Ave.
Crowder Field	5600 Kinkead Ave.
Donald W. Reynolds Bell Tower	5115 Kinkead Ave.
Drennen-Scott	221 N. Third St., Van Buren
Echols	504 N. Waldron Road
Fullerton Administration	5300 Grand Ave.
Gardner	5316 Grand Ave.
Gymnasium/Field House	5004 Kinkead Ave.
Pendergraft Health-Sciences	715 N. Waldron Road
Lion's Den Dining Hall	601 N. Waldron, Dining
Lion's Den North Hall	601 N. Waldron, North
Lion's Den South Hall	601 N. Waldron, South
Math-Science	720 N. 49th St.
Plant Operations	500 N. 51st St.
Sebastian Commons	801 N. 49th St.
Smith-Pendergraft Campus Center	800 N. 49th St.
Stubblefield Center	532 N. Waldron Road
Student Recreation and Wellness Center	525 N. 51st St.
Sustainable Conservation House	1114 N. 52nd St.
Vines	5320 Grand Ave.
Wenderoth Park	5703 Kinkead Ave.
Windgate Art and Design	535 N. Waldron Road