The University of Arkansas at Little Rock is a public university committed to providing convenient, high-quality educational opportunities to our students while helping move Arkansas forward.

UALR serves a talented and diverse group of students. We offer a broad range of academic programs, including a comprehensive set of undergraduate majors, graduate certificates, master’s degrees, doctorates, and a law degree.

Our alumni are leaders in Arkansas and around the world in technology, government, engineering, health care, the arts, education, social services, and business. Alumni will tell you that, in addition to acquiring new knowledge in your chosen discipline, your experience at UALR will strengthen your critical thinking and problem-solving skills, better preparing you to pursue graduate studies or career opportunities.

The university also plays a critical role in advancing Arkansas’s future. Through community partnerships and economic development initiatives, UALR helps the state compete in the global and increasingly knowledge-based economy. Our numerous partnerships with state and local government, businesses, and non-profit organizations can provide you with learning opportunities to develop and enhance your skills in regular job settings.

UALR is uniquely positioned to provide you with the skills, knowledge, and experience you need to reach the next step on your path to success. I encourage you to take advantage of all the university has to offer.

Sincerely yours,

Joel E. Anderson
Chancellor
The University of Arkansas at Little Rock is accredited by the Higher Learning Commission, North Central Association.

**University of Arkansas at Little Rock**
2801 South University
Little Rock, Arkansas 72204
Phone: (501) 569-3000
ualr.edu

**The Higher Learning Commission**
30 North LaSalle Street, Suite 2400
Chicago, Illinois 60602-2504
Phone: (800) 621-7440 / (312) 263-0456
Fax: (312) 263-7462
ncahlc.org/

**Accreditations and Affiliations**
- UALR is a Service-Members Opportunity College.
- Specific degree programs are also accredited or affiliated with many external accrediting/certifying bodies. A complete list is located on the Accreditation website (ualr.edu/accreditation).
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# Academic Calendar

For the most complete and accurate Academic Calendar: [ualr.edu/www/events](http://ualr.edu/www/events)

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### Fall 2013

#### August
- **Fall Freshman Convocation**: Aug. 16
- **Fall Classes begin**: Aug. 19
- **Saturday Classes begin**: Aug. 24

#### September
- **Holiday - Labor Day Holiday**: Sep. 2
- **Mid-term grade entry open**: Sep. 25
- **Last day to remove an “I” received:**
  - Summer 2, 2013: Sep. 30
  - Summer 1, 2013: Nov. 5
  - Summer 4, 2013: Nov. 10

#### October
- **Graduation application for Fall 2013 due**: Oct. 4, at 5 p.m.
- **Grad Fest (11 a.m. - 6 p.m., DSC lower level)**: Oct. 9 - 10
- **Fall Break (No Classes)**: Oct. 14-15
- **Last day to drop an individual class**: Oct. 17, by 5 p.m.

#### November
- **Holiday – Thanksgiving**: Nov. 27-Dec. 1

#### December
- **Last day to withdraw from the semester**: Dec. 9, by 5 p.m.
- **Last day of classes**: Dec. 9
- **Consultation Day**: Dec. 10
- **Finals begin**: Dec. 10, at 4 p.m.
- **Fall Commencement**: Dec. 14
- **Final grades due**: Dec. 20, by 12 noon
### January

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- **January**
  - Spring Classes begin: Jan. 13
  - Saturday Classes begin: Jan. 18
  - Holiday - Martin Luther King, Jr. Birthday: Jan. 20

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- **March**
  - Graduation Application for Spring 2013 due: Mar. 1, by 5 p.m.
  - Mid-term Grade Entry Open: TBD
  - Last Day to Drop an Individual Class: Mar. 10, by 5 p.m.
  - Last Day to Remove an “I” Received Fall 2012: Mar. 19
  - Spring Break: Mar. 24-28
  - University Closed: Mar. 28

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- **May**
  - Last Day to Withdraw from the Semester: May 5, by 5 p.m.
  - Last Day of Classes: May 5
  - Consultation Day: May 6
  - Finals Begin: May 6, at 4 p.m.
  - Final Grades: May 16, by 12 noon
  - Spring Commencement: May 17
## Summer 1-2014

### Classes Begin

- **Summer I**: May 27
- **Summer II**: May 27
- **Summer IV**: Jul. 7

### Holiday - Memorial Day
May 26

### Holiday - Independence Day
Jul. 4

### Last Day to Remove an "I" received Spring 2014
Aug. 14

### Last Day to Drop an Individual Class:

- **Summer I**: Jul. 25, by 5 p.m.
- **Summer II**: Jun. 23, by 5 p.m.
- **Summer IV**: Jul. 25, by 5 p.m.

### Last Day to Withdraw from the Summer Term:

- **Summer I**: Aug. 4, by 5 p.m.
- **Summer II**: Jun. 27, by 5 p.m.
- **Summer IV**: Aug. 7, by 5 p.m.

### Last Day of Classes

- **Summer Finals are held on the last day of class**
  - **Summer I**: Aug. 8
  - **Summer II**: Jun. 30
  - **Summer IV**: Aug. 8

### Grades Due by 12 Noon:

- **Summer I**: Aug. 8
- **Summer II**: Jul. 2
- **Summer IV**: Aug. 13

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About the Undergraduate Catalog

The Undergraduate Catalog is an official publication of UALR, revised annually and published in August each year. It provides information about degree programs, course offerings, and academic regulations that affect undergraduate students. There are separate catalogs for UALR’s graduate and law programs.

The online version of the catalog will be updated when substantive mistakes are identified or course changes are approved so that students have the most current information available.

Please note: The printed version, which is the same as the Adobe PDF available online, is used to determine graduation requirements. You may download the entire 2013-2014 Undergraduate Catalog Adobe PDF file online at ualr.edu/catalog.

Limited electronic copies of previous catalogs may be found on the catalog archive website and hard copies of every year are kept in the Office of Records and Registration.

The catalog is compiled and edited by Kathy Oliverio, Academic Editor, with production assistance provided by Christina Drale, Marita McNair, Daryl Rice, Karen Roberson, Pete Tschumi, Karen Wheeler, and the staff at the UALR Printing Services.

This catalog establishes the graduation requirements set forth by a specific program of study within each college. Typically, students who enter a program within UALR, follow the program of study listed for the academic year the catalog is published. Each college within UALR reserves the right to change graduation requirements for their program. Students should meet regularly with their academic advisors to be certain that they are aware of any changes in graduation requirements that may apply to them.

Admission to UALR in any program of study does not guarantee that the University will continue to offer that program of study indefinitely. UALR reserves the right to change, phase out, or discontinue any program at any time for the best interest of the University.

Right to Change

Any policy, course listing, website, catalog, or class schedule is only intended to announce available courses and applicable policies. If a course appears in this catalog or any other publication, it should not be regarded as a guarantee. Keeping within standards set by other universities with the University of Arkansas System, UALR reserves the right to:

• add or delete courses or programs from its offerings,
• change times, locations, or instructors of courses or programs,
• modify academic calendars without notice,
• cancel any course for insufficient student registrations, or
• revise regulations, charges, fees, schedules, courses, requirements for degrees, and any other policy or regulation affecting students whenever it is considered to be in the best interests of UALR.

How to Get Help

Often the information you need can be obtained on the UALR website at ualr.edu/ or by telephone. Departmental numbers are included in their respective sections within the Catalog. For other numbers, consult the business pages in the Little Rock telephone directory. For information not included on the UALR web site, go directly to the office with the title that matches your needs: the Office of Undergraduate Admissions and the Office of Records and Registration are most often needed by incoming students. These offices are located on the second floor of the Student Services Center.

The Office of Academic Advising provides advice on the selection of required courses and programs for undeclared majors. All students who are undecided about a specific field of study must contact this office, located on the third floor of Student Services Center. If you have decided on a major or have narrowed your choice to a few areas, contact either the academic advisor, the chairperson of the appropriate department, or the dean of the college or school.

If you have a problem or concern regarding student life on campus, or have a question about student judicial affairs, start at the Office of Campus Life, located on the upper level of the Donaghey Student Center. An Information Center is also located in the Donaghey Student Center; personnel there can assist you with specific questions. The UALR Registration Guide and Class Schedule, which is described on the following page, contains the office locations and telephone numbers of the academic advisors. Department chairpersons and deans are appropriate people to contact for any academic problem at any time. All academic units are under the direction of the provost and executive vice chancellor for academic affairs.

The Catalog provides you with background information about the university and programs that are available. You will also find other important information to assist you. The rest of the catalog is arranged by colleges and then departments or divisions within each college. Each of these sections describes the requirements for a major or a minor in that area, as well as all the courses the department offers. Most courses are scheduled at least once every two years. The section titled “Interdisciplinary Studies” describes degrees that involve work in more than one department or college. The beginning chapters are arranged to help you find what you need as you progress through your journey at UALR.

UALR Students

One of the most exciting things about UALR is the diversity reflected in the student body. The campus includes people ranging from the usual college age of 18-21, to many over 60. Most students work at least part time, and many are married. Many go to college part time and take one, two, or three courses a semester. Some students take courses for personal enrichment or job advancement without immediate plans to get a degree. About a third are going to college at night only. More than 60 percent of the students are women, about 29 percent are African-American, and a growing number are international students.
The primary functions of the Office of Records and Registration are to manage registration in classes and maintain the official academic records of all UALR students. The office provides a number of online services to students through their BOSS accounts, such as the following:

- Register for Classes
- Request Enrollment Verification
- Request Degree Verification
- Order Official Transcripts
- Print an Unofficial Transcript

The Academic Year

The academic year includes two regular semesters in the fall and spring, each with two accelerated sessions within the term, and a summer semester with four terms. Some courses are also available between semesters during late spring and winter interim and through the Accelerated Program.

The unit of credit is the semester hour. This unit is defined as credit earned for the completion of one hour per week in class for one semester. Two hours or more of laboratory work per week for one semester equal one semester hour of credit. UALR offers night and weekend courses, web-based courses, courses on campus and at various off-campus locations. Admission requirements, fees, and academic performance for night and weekend classes are the same as for day classes. Web-based courses are charged a technology fee.

Continuing-education courses are offered as a service to specific professional and vocational groups of the community. These are available on both credit and non-credit basis.

Online Registration Guide and Class Search

After you have been advised, the next step toward taking courses at UALR is to view the UALR Registration Guide and Class Search. The UALR Registration Guide and Class Search contain information on the web registration process and lists the courses that will be offered during specific semesters by course, time, location, and instructor. The Guide and Search also contain the academic calendar, the final examination schedule, and deadlines for various activities during the semester. UALR offers courses in the fall, spring, and summer.

The Summer semesters are divided into one 10-week term (Summer I), and three 5-week terms (Summer II, III, and IV). UALR also offers courses at other times, such as during the interim between each semester and at different time periods during a semester or term.

A student may not enroll for more than 18 credit hours in a regular semester (Fall or Spring) or more than 7 credit hours in a five-week Summer term without prior permission of the person who approves his or her degree plan.

Courses and programs are also offered through distance delivery as well as off-campus locations. Off-campus and online credit courses are identified by location in the UALR Registration Guide and Class Search.

During a regular semester or term, the usual three-credit-hour daytime course will meet for 50 minutes a day on Monday, Wednesday, and Friday, or for 1 hour and 15 minutes on either Monday and Wednesday or Tuesday and Thursday.

Some classes will meet on different time schedules, such as one three-hour session per week. All these options are part of UALR’s effort to offer classes in times and places that suit the needs of all students, but it also means you have to read the UALR Registration Guide and Class Search carefully.

A typical course entry and an explanation of each part of this listing is provided below. The format of the information may vary depending on which view of the student schedule you use, but the meaning of each component will be the same.

| CRN: 60736 | HIST 1311 01 | Hist Of Civilization I | Available Seats: 0 |
| Class meets MWF 8:00am-8:50am | Instructor: Anson Edward M |

- CRN: 60736 - The five-digit course reference number (CRN) assigned for registration. The five-digit CRN number is necessary for registration and is not the same as the course number.
- Subject HIST - The department or curriculum area with its assigned four-letter code. In this case, it is “HIST” for “History.” See “Four-Letter Course Codes” for more details.
- Course Number 1311 - The course number assigned by the department. It indicates the level and number of credit hours for the course. Note: The second number indicated the semester hours. This class is 3 semester credit hours.
- Title Hist Of Civilization I - The course title. Abbreviated versions of longer course titles may be used. Descriptions of all courses appear within their respective departments in numerical order by course number.
- Available Seats: 0 - This is the total number of students that may sign up for this class.
- Class meets MWF - The days the class meets, in this case each Monday, Wednesday, and Friday. Other abbreviations include “MW” or Monday and Wednesday, “TR” or Tuesday and Thursday, “S” means Saturday, “U” means Sunday, and “TBA” indicates “to be announced.” “TBA” is often used for online classes.
- 8:00am - 8:50am - The time the class begins and ends. The abbreviation TBA in this place means “to be announced.” The exact time for TBA courses will be provided by the department or instructor.
- Instructor: Anson Edward M. - The name of the instructor assigned to this class. If the word “Staff” appears here, the teacher for the class had not yet been assigned at the time the schedule was prepared.
Office of Admissions

Katie Young, Director
Student Services Center, 2nd Floor |(501) 569-3127 | fax (501) 569-8956 | ualr.edu/admissions/

Undergraduate students who want to enroll at UALR should correspond with the Office of Admissions. The Office of Admissions provides information to prospective students, conducts campus tours, and hosts open houses both on campus as well as in other cities.

Students can apply for admission online at apply.ualr.edu. After receipt of a completed application and all credentials, a determination of a student’s admission eligibility will be made by the Office of Admissions. To ensure that all necessary requirements for admission have been fulfilled before registration, students are encouraged to submit all transcripts of previous academic work at least 30 days before a semester begins. All undergraduate admission applications and academic credentials must be received by the Office of Admissions no later than one week prior to the beginning of the semester.

How to Apply for Admission to UALR:

1. Complete an application for admission and submit the $40 non-refundable application fee at apply.ualr.edu
2. Freshmen and freshmen transfers (those with less than 12 transferable college credit hours) should request that an official high school transcript or GED scores be sent to the Office of Admissions. Only official transcripts will be accepted, and must be submitted in a sealed, stamped envelope or sent via electronic data interchange from the high school.
3. Freshmen and freshmen transfers may need to request official ACT or SAT scores from the testing agency (UALR ACT Code 0132; UALR SAT code 6368) if the official high school transcript does not include scores and s/he did not indicate UALR as a score recipient at the time of testing. ACT, SAT, or COMPASS scores must be from tests taken within the last five years. Students have the option of taking the COMPASS test available through UALR Testing Services.
4. All required college transcripts should be sent to the Office of Admissions. Only official transcripts will be accepted, and must be submitted in a sealed, stamped envelope or sent via electronic data interchange from the previous institution. Students may submit an "In Progress" transcript from the institution at which s/he is currently enrolled for admission purposes, but will still be required to submit a final, official transcript. Freshmen who completed high school concurrent credit at an institution other than UALR should submit an official college transcript.
5. Students born after January 1, 1957, must submit proof of two MMR immunizations.
6. Students whose native language is not English must provide proof of English language proficiency. See the section entitled “Non-Native English Language Requirement.”

Admission Types

Freshmen

Students who have no college credit or earned college credit while in high school or during the summer immediately after high school graduation are classified as first-time entering freshmen. High school students can be admitted for a future term (after graduation) as early as completion of the eleventh grade. These students are expected to continue their academic success in high school and submit a final transcript after graduation. In order to be considered for admission, first-time entering freshmen applicants are required to submit:

- An application for admission and non-refundable $40 application fee at apply.ualr.edu
- Proof of two MMR immunizations. (required of all applicants born after January 1, 1957)
- An official high school transcript or GED scores.
- Official ACT, SAT, or COMPASS scores taken within the last five years.

Unconditional Admission

Students with the following academic qualifications will be unconditionally admitted:

- Successful completion of the high school college preparatory core in effect at the time of graduation from high school, plus one of the following:
  - A cumulative high school grade-point average of 2.5.
  - An ACT composite score of 21 or a combined Critical Reading/Math SAT I score of at least 990 or comparable COMPASS score.

Home-schooled graduates or those with a GED are unconditionally admitted if they have an ACT composite score of 21 or a combined verbal/math SAT I score of at least 990, or a comparable COMPASS score.

The academic qualifications of all other applicants will be individually reviewed with attention to those factors that indicate the applicant has the ability and motivation to earn the grades required for satisfactory academic progress and eventual graduation. Such factors include but are not limited to high school grades with particular focus on the college preparatory core courses, the academic rigor of the high school courses, success in AP courses and International Baccalaureate courses, and standardized test scores. Any applicant whose admission is denied may, with the submission of additional information, request reconsideration by contacting the Office of Admissions.
Freshmen Transfers

Students with less than 12 transferable college credit hours earned after high school are classified as freshmen transfers. Freshmen transfers are required to submit both freshman and transfer credentials. The admission decision will be based upon the criteria for freshmen admission.

Transfer Students

Transfer students who have been enrolled previously in a post-secondary institution and have earned at least 12 transferable college credit hours with a grade point average of at least 2.00 on all previous regionally accredited college coursework will be granted unconditional admission. Applicants must submit the following:

• An application for admission and non-refundable $40 application fee at apply.ualr.edu
• Proof of two MMR immunizations (required of all applicants born after January 1, 1957)
• Official transcript(s) from each college previously enrolled sent to:

  UALR Office of Admissions
  2801 South University
  Little Rock, AR 72204

Previously enrolled students who have attended another institution since attending UALR must reapply for admission and submit any official transcripts.

Provisional Admission of Transfer Students

Transfer students who have not submitted all official academic credentials necessary for admission by the credential deadline may be admitted provisionally provided that unofficial transcripts support admissibility. In such cases, the student will be admitted with the provision that s/he submit the missing credentials prior to being permitted to register for a future term. Transfer work will be evaluated upon receipt of all required official academic transcript(s). If evaluation of the final academic transcript shows that the provisionally admitted student does not meet UALR’s minimum admission requirements, the student will be admitted on academic probation. Students granted provisional admission who do not submit the missing credentials by the end of the term will not be permitted to enroll in subsequent terms until the admission requirements have been satisfied. Students admitted provisionally may not be changed to non-degree seeking student status.

UALR cannot accurately evaluate transfer hours, advise, or release financial aid funding for which students may be eligible, or guarantee registration in degree appropriate courses until all final, official academic credentials have been received and processed.

International Students

See the “Office of International Services” section.

Dual Enrolled High School Students

Current high school students who have completed some high school coursework and wish to attend classes on the UALR campus may be considered for admission as dual-enrolled high school students. Applicants must submit:

• An application for admission and non-refundable $40 application fee at apply.ualr.edu
• Proof of two MMR immunizations (required of all applicants born after January 1, 1957)
• An official high school transcript
• Official ACT, SAT, or COMPASS scores taken within the last five years
• Letter of permission from parent/legal guardian
• Letter of permission from the instructor of the course(s) in which s/he plans to register

Admission of Dual-Enrolled High School Students

Students with the following academic qualifications may be considered for admission:

• Cumulative 3.0 high school grade point average
• An ACT composite score of 21 or a combined Critical Reading/Math SAT I score of at least 990 or comparable COMPASS score.
• Additional requirements or testing may be necessary.

Students must achieve sub-scores on the ACT, SAT or COMPASS that meet the minimums necessary to qualify for college-level courses. UALR is not responsible for guaranteeing high school diplomas under this arrangement; however, campus officials will cooperate with state or local school administrators concerning regulations for awarding a diploma to successful participants in this program. College credit earned as a dual-enrolled student may apply toward a degree at UALR. Students in this category are not eligible for scholarships or financial aid.

High School Concurrent Students

UALR offers concurrent enrollment through a number of Arkansas high schools. High school concurrent students enroll in UALR courses offered on their high school campus. Prospective students for high school concurrent enrollment should contact the concurrent enrollment coordinator at their high school. Official academic credentials will be submitted to the Office of Admissions by the high school’s concurrent enrollment coordinator.

Applicants must meet one of the following requirements to be eligible for high school concurrent enrollment:

• Complete at least 50% of the state-recommended college preparatory courses with a minimum grade point average of 2.5.
• Achieve a minimum overall high school grade point average of 3.0.
• Achieve a minimum composite score of 21 on the ACT.

Non-degree Seeking Students

Non-degree seeking status is available on a limited basis to students who wish to enroll in courses for personal enrichment or career development and do not plan to earn a certificate or degree at UALR. Non-degree seeking students are not eligible for student financial aid or veteran’s benefits, nor are they eligible to enroll in RHET 1311 Composition I, MATH 1302 College Algebra, or MATH 1321 Quantitative and Mathematical Reasoning.

Applicants must submit the following:

• An application for admission and non-refundable $40 application fee at apply.ualr.edu.
• Proof of two MMR immunizations (required of all applicants born after January 1, 1957).

Post-baccalaureate Students

Students who already have a bachelor’s degree and wish to take additional undergraduate courses may be admitted as post-baccalaureate students. Post-baccalaureate students are not eligible for some federal grants.

Applicants must submit the following:

• An application for admission and non-refundable $40 application fee at apply.ualr.edu.
• Proof of two MMR immunizations. (Required of all applicants born after January 1, 1957.)
• Official transcript from the institution that granted the bachelor’s degree with date of degree conferral.
Reapplicants

Students who have not enrolled at UALR for two years or longer must reapply for admission online at apply.ualr.edu and submit the non-refundable $40 application fee. Students who have attended other institutions in the interim should apply as a transfer student.

Visiting Students

Students enrolled in an institution of higher education to which they intend to return and who wish to take courses at UALR can be admitted as a visiting student. This status is limited to one semester. Further enrollment in this status is not permitted until the student has returned to his or her original institution, attended another institution before returning to UALR, or applied as a degree-seeking student at UALR.

Applicants must submit the following:

- An application for admission and non-refundable $40 application fee at apply.ualr.edu.
- Letter of good standing or official transcript from the institution in which they are enrolled.

Senior Citizens

Any Arkansas resident who is at least 60 years of age and has been admitted as a student at UALR shall receive a tuition waiver once proof of age has been provided to the Bursar’s Office on a space-available basis. Students qualifying for the waiver will be permitted to register only on the last day of the regular and late registration periods each academic term. If a course section has no available slots and additional students are attempting to register, students receiving the waiver may be removed from that course section. Exceptions may be granted to students who agree to forgo the waiver of tuition.

Residency

UALR students are governed by the University of Arkansas Board of Trustees’ policy on student residency status. Those classified as nonresidents of Arkansas must pay non-resident tuition in addition to regular registration fees. Questions about residency status and requests for the written policy should be directed to the Office of Admissions.

Non-Native English Language Requirement

Applicants whose native language is not English (including refugees, immigrants, permanent residents, and citizens) must submit proof of English language and academic skill proficiency before admission to UALR. All other admission criteria must be met. Students may satisfy the English language requirement in one of four ways:

- Present a score of at least 525 (paper-based) or 71 (iBT) earned within the last two years on the Test of English as a Foreign Language (TOEFL) (UALR Code is 6368); or
- Present a score of at least 6 on the IELTS earned within the last two years; or
- Present a passing score on the Michigan Test (formerly known as the Institutional English Language Test) administered on campus through the Intensive English Language Program. (Please call (501) 569-3467 for additional information; or
- Successfully complete the UALR Intensive English Language Program through the final level. (Please call (501) 569-3467 for additional information; or
- Present scores of at least 21 on both the English and Reading sections of the ACT test.
Transfer Student Services

The University of Arkansas at Little Rock welcomes transfer students and is committed to making their transition to campus and transfer of credit a smooth process. The Office of Transfer Student Services (OTSS) was established in April 2009 to expedite the articulation of core transfer credit, and provide dynamic student service to meet the transfer credit evaluation needs of prospective and new UALR transfer students. Our main goal is to make transferring to UALR easier for students to accomplish and the transfer process easier to understand. We provide a friendly starting place for transfer students to connect with essential information and resources.

Definitions of Transfer Students for Admission and Financial Aid Eligibility

For admission and eligibility for financial aid, UALR defines types of transfer students according to the number of hours they have previously earned and their intention to earn a degree either with UALR or with another college or university.

Transfer students have previously attended another post-secondary institution and have at least 12 transferable college-level credit hours and a grade point average of 2.00 on all previous college work (See Transferring Credit to UALR). Transfer students intend to earn an academic degree at UALR, even though they may be in the process of earning an associate’s degree at another college when they apply for admission to UALR. Applicants must submit the following required credentials in order to be granted admission and to be eligible to receive financial aid:

- Completed application for admission and $40 non-refundable application fee at apply.ualr.edu
- Proof of two MMR immunizations (required of all applicants born after January 1, 1957)
- Official, sealed transcript(s) from all post-secondary institutions attended (e.g. universities, community or junior colleges, technical or professional schools) sent to:
  UALR Office of Admissions
  2801 South University Ave
  Little Rock, AR 72204

Previously enrolled students who have attended another institution since attending UALR must submit an admission application and an official transcript mailed directly to UALR Office of Admissions from any other institution(s) attended.

Freshman transfer students have previously attended another post-secondary institution and have less than 12 transferable college credit hours (See Transferring Credit to UALR). Freshman Transfer students intend to earn an academic degree at UALR, but have not completed the equivalent of one, full-time semester’s enrollment at another college or university. They must meet and submit all of the admission requirements for entering freshmen, including:

- An application for admission and $40 non-refundable application fee at apply.ualr.edu
- An official high school transcript or GED scores
- ACT, SAT, or COMPASS scores taken within the last five years
- Proof of two MMR immunizations (required of all applicants born after January 1, 1957).
- Official, sealed transcripts from all post-secondary institutions attended (e.g. universities, community or junior colleges, technical or professional schools) sent to UALR Office of Admissions.

Visiting students previously or currently attend another post-secondary institution and plan to transfer credits earned at UALR back to that college or university to apply toward a certificate or degree. Applicants must submit:

- An application for admission and $40 non-refundable application fee at apply.ualr.edu
- A letter of good standing or official transcript from the institution in which they are enrolled to the Office of Admissions at UALR.

Visiting status is limited to one semester. Further enrollment in this status is not permitted unless the student has returned to his or her original institution or has attended another institution before returning to UALR. Students in this category are not eligible for federal financial aid.

Provisional Admission of Transfer Students

Transfer students who have not submitted all credentials necessary for admission by the credential deadline may be admitted provisionally provided that the unofficial documents support admissibility. In such cases, the student is admitted with the provision that s/he submit the missing admission credentials by the end of the term during which provisional admission was granted. Transfer work will be evaluated upon receipt of all required official academic transcripts. If evaluation of the final academic transcript shows that the provisionally admitted student does not meet UALR’s minimum admission requirements, the student will be admitted on academic probation. Students granted provisional admission who do not submit the missing credentials by the end of their first enrolled term will not be permitted to enroll in subsequent terms until the admission requirements have been satisfied. Students admitted provisionally may not be changed to non-degree seeking student status.

IMPORTANT NOTE: UALR cannot accurately evaluate transfer hours, advise, release financial aid funding for which students may be eligible, or guarantee registration in degree appropriate courses until ALL final admission credentials have been received and processed. Students may receive an unofficial evaluation of general core curriculum transfer credits prior to admission to UALR by requesting an evaluation from the Office of Transfer Students Services (OTSS) online at http://ualr.edu/transfer/future-students/ask-a-transfer-advisor/. Unofficial evaluations require submission of transcripts to OTSS.
Transferring Credit to UALR

Credit can be transferred to UALR in a variety of ways, but please be aware that UALR does not accept the following types of credits:

• Remedial/developmental/study skill courses. (These course(s) are posted to the UALR transcript but no credit hours are transferred.)
• Courses marked “in progress.”
• Courses from post-secondary institutions which do not have accredited or candidacy status in a regional accrediting association. (See Accreditation Requirements for details.)
• Courses designated as credit/no credit, pass/fail, audit or satisfactory.
• Earlier attempts of a course repeated at a transfer college or university. Only the credit hours earned on latest attempt will transfer.

Transfer Credit Policies

Only credit hours earned at other regionally accredited institutions will transfer and be posted on the UALR transcript. Grades and GPA do not transfer and are not calculated in the student’s GPA earned at UALR. However, all grades from all prior post-secondary institutions are calculated for the purpose of awarding graduation honors.

• D Transfer Policy: Only courses with grades of C or greater will transfer automatically; however, a student may request to transfer as many as 6 credit hours with a grade of D from any regionally accredited college or university. Credit for the hours will be accepted as transfer credit if the course satisfies a degree program requirement and if a student would be allowed to earn a grade of D if the class were offered at UALR. A student may take advantage of this policy at any time prior to the awarding of an undergraduate degree. For more information on the transfer of D grades, please see UALR Policy 501.10.

• Limitations on Transfer Credit: There is no limit on the amount of credits that a student may transfer to UALR, but students graduating with four-year degrees (baccalaureate) must earn 30 hours in residence at UALR. Students graduating with two-year degrees (associate) must earn 15 hours of credit in residence at UALR. Please note that some degree programs may have restrictions on the number of upper-level courses that may be used to satisfy major or minor program requirements. For certain degree programs, some credits may not be applied to satisfy a degree requirement due to when the course was earned or content changes over time.

• Transfer Students and Undergraduate Catalog Choice: Transfer Students may choose to follow requirements of an older undergraduate catalog of requirements at UALR. A student transferring to UALR from regionally accredited four-year institutions, community colleges, or junior colleges with 13 or more hours of accepted credit may graduate under the provisions of a UALR Undergraduate Catalog in effect during any semester of the previous five years in which they were enrolled at the other institution. Note: At no time may a student follow the provisions of a UALR Undergraduate Catalog that is more than five years old at the time of the student’s entry into UALR.

• Transfer Students and the First-year Composition Requirement: Students transferring 60 or more hours to UALR who have met the first-year composition requirement at the higher learning institution(s) previously attended may be exempted from UALR’s first-year composition requirement. The decision to exempt a student from this requirement is made by the student’s major department chairperson when the student files a degree plan.

Accreditation Requirements

UALR recognizes academic credits earned at other regionally accredited post-secondary institutions. Regional accreditation means that an institution of higher learning is accredited by one of the six regionally stipulated accreditation agencies approved by the U.S. Department of Education and the Council for Higher Education accreditation (CHEA), including: Middle States Association of Colleges and Schools Commission on Higher Education, New England Association of Schools and Colleges Commission on Institutions of Higher Education, North Central Association of Colleges and Schools Commission on Institutions of Higher Education, Northwest Association of Schools and Colleges Commission on Colleges, Southern Association of Colleges and Schools Commission on Colleges, and Western Association of Colleges and Schools Accrediting Commission.

Transcripts from institutions not accredited by the regional accrediting associations will be handled at the discretion of the Registrar. Students presenting such transcripts may appeal for consideration of credit transfer to the Registrar. Only official transcripts including complete records of the courses taken and sent to UALR by the institution(s) attended will be accepted for evaluation. The Registrar may also request that a course description or syllabus be presented.

Transferring Core or General Education Courses

As a public institution, UALR participates in the Arkansas State Minimum Core Curriculum agreement, which allows students to transfer up to 35 hours of general education core courses among Arkansas institutions. Students transferring to or from UALR and another publicly supported Arkansas college or university are encouraged to check with their advisors and the Office of Transfer Student Services to assure proper transfer of core or general education courses.

UALR also participates in the Arkansas Course Transfer System (ACTS) maintained by the Arkansas Dept. of Higher Education at http://www.adhe.edu/divisions/academicaffairs/Pages/aa_curriculum.aspx. ACTS contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and equitable treatment in the application of credits for admissions and degree requirements. Students may complete specified General Education courses anywhere in the public system as well as many courses in the degree/major that have been pre-identified for transfer.

Transferring Associate Degrees

In-State Public Associate Degrees Designated for Transfer under ACT 182 of 2009

Students entering the University with an associate of arts, associate of science, or associate of arts in teaching degree that is from an Arkansas college or university, earned after January 2010 and designated for transfer in accordance with ACT 182 of 2009, meet the UALR core requirements. Students transferring to UALR with such degrees are not required to take additional lower-level general education courses except under the following conditions:

• As a prerequisite for courses in the transfer student’s baccalaureate degree program.
• A discipline-specific course that is required by the student’s baccalaureate degree program and that the student has not completed at the two-year public institution of higher education.
• A requirement of an independent licensing or accrediting body.
Students entering UALR with an associate of arts or associate of science degree from a public Arkansas college or university that is not designated for transfer in accordance with ACT 182 of 2009 and students transferring associate of arts or associate of science degrees from in-state private and/or out-of-state colleges or universities are subject to the transfer policy indicated in the following section (See Transferring All Other Associate Degrees). Students with questions about the transferability of previously earned associate's degrees are invited to contact the Office of Transfer Student Services for clarification.

Associate of Applied Science Degrees

Associate of applied science degrees are handled on a course-by-course basis for application toward meeting degree program requirements.

Transferring all other Associate Degrees

Students entering the University with an associate degree that is not designated as a transferable degree under Act 182 (see section In-State Public Associate Degrees Designated for Transfer under ACT 182 of 2009 above) and that is not an associate of applied science (see section Associate of Applied Science Degrees above) will demonstrate their degree came from a regionally accredited college or university and includes the following:

- 3 hours of college algebra or college mathematics, or higher mathematics course
- 6 hours of English composition
- 9 to 15 hours of social science including a 3-hour course on U.S. history or U.S. government
- 8 hours of lab science
- 6 to 12 hours of arts and humanities, and
- 0 to 3 hours of speech

Such a degree will satisfy UALR’s core requirements. Students who have an associate degree of at least 60 hours and are missing some of this distribution of courses will be required only to add the courses they are missing. Students with questions about the transferability of previously earned associate’s degrees are invited to contact the Office of Transfer Student Services for clarification.

Special Transfer Credit

Transferring Credit by Examination

Students who take CLEP, AP, DANTES, International Baccalaureate, and Excelsior College Examinations must have official score reports sent directly to the UALR Office of Testing Services for evaluation. Credit obtained through examination is recorded as approved hours on the student’s official transcript without grade or grade points after the student has been enrolled at UALR for one semester. Additional information may be obtained from Testing Services by calling (501) 569-3198 or on their website.

Transferring Military Service Credit

In 2008, the Faculty Senate by unanimous vote approved accepting military credit certified by ACE as equivalent to college level courses for transfer to UALR. Official transcripts must be provided for evaluation and should be requested based on the branch of service (Joint Services Transcript). Military transcripts should be submitted to UALR’s Office of Admission, which after document imaging will forward on to Kathy Oliverio, military ombudsman, to evaluate for the awarding of potential academic credit. For additional information concerning this process, please contact Kathy Oliverio at kmoliverio@ualr.edu or (501) 569-3204. Please note that UALR does not automatically transfer military credits based on evaluations by other universities.

Transferring Technical and/or Vocational Credit

UALR does not automatically transfer technical and/or vocational credits from other universities. Students with technical and/or vocational credits who would like this credit considered for application toward a specific degree program may consult with their departmental advisor after officially declaring a major. Any transfer of technical and/or vocational credit requires the signature of a departmental advisor on a Request to Receive Credit for Technical and/or Military Credit form to be submitted to the Office of Records and Registration for processing.

Transferring International Credit

Students who have earned college level credit at an international college or university should submit officially evaluated post-secondary school transcripts to the Office of International Services (If obtained from a foreign institution, the transcripts need to be evaluated and translated by one of NACES approved agencies with a document by document/course by course evaluation). For details visit National Association of Credential Evaluation Services or use AACRAO or WES, from these institutions of higher learning with an English translation of these documents (if applicable) to the Office of International Services. International transfer students must meet additional admission requirements as detailed in the “Office of International Services” portion of this catalog.

Any applicant for whom English is not the first language must furnish or demonstrate proof of English language proficiency before starting classes at UALR. For detailed information concerning these requirements, please contact the Office of International Services at (501) 683-7566.

After the Office of International Services verifies and posts international transfer credits to an entering transfer student's UALR transcript, and once all admission credentials have been received and processed, the student’s file will be forwarded to the Office of Transfer Student Services to evaluate the application of transfer credits toward core curriculum requirements in the student’s academic major (or intended major). In order for international transfer credits to be articulated, the student must provide English translations of course descriptions to the Office of International Services or Office of Transfer Student Services.

Since the evaluation and articulation (process of applying credit towards UALR degree requirements) of international transfer credit generally takes 3-4 weeks at minimum, it is strongly recommended that students with international transfer credit submit all required documentation as early as possible. International Students are not admitted on academic probation.

Transferring Occupational Programs Credit

UALR will accept up to 16 hours of lower level undesignated elective credit for occupational programs from accredited institutions. Students to whom this might apply should have their transcripts evaluated by the Office of Records and Registration (501) 569-3110. An evaluation of credit will not be made until after a student is enrolled at UALR.

Transferring Credit after Enrollment at UALR

UALR students may choose to enroll at another regionally accredited academic institution while attending or intending to return to UALR as a degree-seeking student. In order to assure that the credit received elsewhere meets UALR degree program requirements, students are strongly advised to consult with their academic advisor (if declared majors) or if they intend to take core curriculum courses at another college or university before the declaration of a major, students should consult with the Office of Transfer Student Services at (501) 682-1273.
Application of Transfer Credit Toward Degree Program Requirements

Transfer students are strongly urged to seek advising before class registration. Final transfer credit articulation (the process of determining course equivalencies and application of transferred courses toward meeting degree program requirements) will only occur after students are admitted to UALR and their final prior academic credits have been posted to the UALR transcript. Because transfer credit articulation impacts course placement and registration, transfer students with a provisional admission status may need registration overrides into core, major, or minor courses during the first semester on campus.

The transfer credit equivalency guide for Arkansas and regional schools is available on the OTSS website and includes upper level (junior and senior) courses that are not part of the Arkansas Course Transfer System.

IMPORTANT NOTE: If a particular institution of higher learning does not appear in this guide, it does not mean that UALR will not accept course work from that institution. Also, if an institution appears in the guide, but the particular course you are seeking is only listed as being accepted for general elective credit, please consult further with your academic advisor.

All transfer students are initially admitted into University College. After deciding upon a major, students should ask their academic department advisor to evaluate transfer work for application toward graduation requirements. One often misunderstood point is that a given course may be accepted toward the total hours required for a degree at UALR, but may not be accepted as meeting a specific course requirement for the core curriculum or for a major or minor. The process of transfer credit articulation may take several weeks at minimum to process after a student has been fully admitted to UALR.
The Office of International Services (OIS) provides comprehensive assistance to international students concerning legal and institutional requirements for studying at UALR, and to domestic students concerning studying abroad. The office advises students about immigration requirements and transfer credit, conducts international student orientation, assists international students regarding living and studying on an American campus, assists with housing, and provides advisory services for matters involving nonacademic concerns. The office also develops and facilitates exchange and study abroad programs. Exchange programs provide students and faculty members with an opportunity to travel abroad for educational and research purposes. The office works in cooperation with other units on campus that deal with international students, as well as those that facilitate various aspects of the study abroad process.

**Programs Abroad and Study Abroad**

Allyson Douglass, Programs Abroad Coordinator, Education Building, Room 101, (501) 683-7566, ualr.edu/programsabroad

The University provides numerous opportunities for students and faculty members to travel abroad for educational and research purposes. Formal agreements with foreign universities facilitate bilateral exchanges, which insure a consistent and lasting relationship that benefits students at both institutions. Study abroad provides students with opportunities to explore other cultures through classroom and field experiences; increase their communication skills, cultural awareness, leadership skills, flexibility, and maturity; develop proficiency in a foreign language in a context of daily use; and draw upon the vast cultural, intellectual, and historical resources of another country. The University coordinates study abroad programs in Austria, China, France, Germany, Ghana, Great Britain, Hong Kong, India, Mexico, Norway, Poland, Romania, Spain, Taiwan, and Turkey.

If UALR does not offer a program that fits your needs, the Programs Abroad will assist you in finding one that best fits your academic goals, linguistic abilities and interests.

All programs abroad must be approved by the UALR Programs Abroad office prior to departure and course enrollment in a foreign program. UALR credit will not be granted otherwise. UALR has the right to adjust both the level and number of UALR credits given for courses taken in foreign programs based on placement examinations given by the foreign institution.

**International Student Services**

Allyson Douglass, Assistant Director, Education Building, Room 101, (501) 683-7566, ualr.edu/international

International Student Services is responsible for the admission for all undergraduate level international students, immigration advising of all international undergraduate and graduate students. In addition, ISS handles all requests for the J Visa exchange visitor program which includes exchange students and visiting researchers and professors. ISS also conducts regular programs on a wide range of topics including:

- International Student Orientation
- Employment and Tax workshops
- “OIS collaborates with other on-campus departments in hosting various programs throughout the year, including “International Celebration Week” which is held in November.

**Admission of International Students (for Graduate Admissions, please see the UALR Graduate Catalog)**

International students applying for admission to the University of Arkansas at Little Rock must apply online and submit complete credentials and detailed information before being considered for admission. UALR is authorized under federal law to enroll non-immigrant alien students. All required items must be received at UALR by July 1 for the fall semester and November 1 for the spring semester. However, applications will be considered on a case-by-case basis after these deadlines if at least partial documentation has been received.

**Requirements:**

1. Apply online at boss.ualr.edu/
2. Submit a nonrefundable $40 application fee.
3. Submit evaluation of high school transcripts (entering freshmen) or all post-secondary school transcripts (transfer students with 12 or more credit hours)
4. Demonstrate proof of English proficiency in one of these ways:
   • Present a score of at least 525 (paper-based) or 71 (iBT) earned within the last two years on the Test of English as a Foreign Language (TOEFL) (UALR Code is: 6368); or
   • Present a score of at least 6 on the IELTS, earned within the last two years; or
   • Take the Michigan Test (formerly known as the Institutional English Language Test), administered on campus. Pass with a test score of 85 (listening, vocabulary / reading comprehension & grammar) and 4 out of 6 (writing) or higher in the same test administration. Please contact the Intensive English Language Program for specific information call (501) 569-3467; the test must be taken before class registration; or
   • Successfully complete the UALR Intensive English Language Program through the final level (see IELP section); or
   • Completed English Composition I and II at a regionally accredited post secondary U.S. institution with a C grade or greater; or
   • Studied full-time for two or more years at a college or university where English is the language of instruction located in a country where English is the native language are exempt from the TOEFL or the IELTS.

5. Submit a financial statement (F and J visas only): students must provide certified proof that they are financially capable of pursuing an education in this country. The estimated cost for books, fees, and living expenses is $22,000 for an academic year.


7. F/J student transferring from another institution within the United States must submit a Transfer of Visa Form completed by the student and by the foreign student advisor of the institution the student is currently attending. This form can be found online at our website under the Documents and Forms link.

8. Immunizations: OIS strongly encourages all new international students to receive the required MMR immunizations before they arrive. Submit a copy of your immunization records showing day, month, and year you received vaccines. Complete an international Student immunization Form. This form must be signed by your doctor. Send the original, notarized letter from your doctor stating the dates when you received the two required MMR vaccines. Please visit our website for more information regarding immunization changes at UALR.

Requirements upon Arrival at UALR for International Students

Assessment of new freshmen for academic placement: All first-time entering freshman students who have not taken the ACT (American College Test – UALR Code is: 0132) or SAT (Scholastic Aptitude Test – UALR Code is: 6368) will be required (upon arrival on campus) to be further assessed for academic placement purposes by taking the Compass Test. Students transferring 12 or fewer credit hours will be required upon arrival on campus to take the Compass Test for academic placement purposes.

- Health and accident insurance: All F and J international students and exchange visitors are required to purchase health and accident insurance provided through UALR and maintain coverage year-round.
- Complete the TB screening , unless exempt. Complete other immunization requirements unless processed before arrival.
- Provide a copy of the visa, passport, I-94 card, and I-20 to OIS.
- Attend the mandatory International Student Orientation.

Newly admitted international students with an initial I-20 or DS-2019 must attend the mandatory orientation and physically check-in with OIS located in Education 101 to provide copies of all current visa documents. All international students must check-in with the OIS before the 11th day of each Spring and Fall semester. Check-in schedule and procedures will be posted on the OIS website at the beginning of each semester.

Maintaining F/J Student Status

To maintain your student status, you need to:

- Have a valid I-20/DS-2019. I-20s and DS-2019s have expiration dates, which can be found in item 5 on the I-20 and Item 3 on the DS-2019. If your I-20 or DS-2019 is going to expire before you finish your program, consult the Office of International Services at least 30 days before the expiration date to discuss your options.
- Be a full-time student – In order to maintain status, F-1 and J-1 students must be enrolled full-time for each fall and spring semester. Enrollment in summer sessions is not required, unless a student begins study at UALR in the summer or your final semester falls in the summer and you have no intent to register for the fall term.
- Undergraduates – Full-time enrollment is at least 12 credit hours per semester. (Only 3 of these hours may be Web-based Online courses.)
- Graduates – Full-time enrollment is 9 credit hours per semester. (Only 3 of these hours may be Web-based Online courses.)

**Students not in F or J visa status are exempt from the one course or three semester hours on-line or distance education restriction but may experience difficulties if they convert to a F-1 visa during the duration of an on-line or distance education program.

**Enrolling in an on-line or distance education program, even with a residency requirement, does NOT authorize entry into the U.S. The student is responsible for obtaining all documents required for entry into the U.S. prior to travel or, when required by the program, prior to admission to UALR.

Employment Information

U.S. immigration laws permit F/J international students who are enrolled full-time and in good academic standing in UALR undergraduate and graduate programs to work on campus up to 20 hours a week during the academic year and full-time during university breaks, including summer, winter, and spring break. However, prior employment authorization must be obtained from OIS.

Tuition and Fees (See the Tuition and Fees chart for non-resident costs.)

Cooperative Education

Cooperative Education is an academic program for students who would like to combine classroom study with academically related paid employment. The program allows students to complement classroom experience with employment related to their academic area of interest.

“Co-op” creates opportunities for students locally in business, government, industry, and social service agencies. Students who participate in co-op find themselves refining research methods, applying theories in actual field settings, working with advanced technology, and designing original projects and research, all while gaining experience, making money, and earning their degrees. Students interested in Cooperative Education should contact the Office of Cooperative Education at (501) 569-3584. For additional information, visit the Co-op website at ualr.edu/coopeduc/.
<table>
<thead>
<tr>
<th>Undergraduate Tuition (per credit hour)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas Residents</td>
<td></td>
</tr>
<tr>
<td>Per Semester Credit Hour</td>
<td>$197.32</td>
</tr>
<tr>
<td>College of Business Courses</td>
<td>$210.50</td>
</tr>
<tr>
<td>Donaghey College of Engineering and Information Technology Courses</td>
<td>$210.50</td>
</tr>
<tr>
<td>Non-residents</td>
<td></td>
</tr>
<tr>
<td>Per Semester Hour</td>
<td>$546.50</td>
</tr>
<tr>
<td>College of Business Courses</td>
<td>$567.00</td>
</tr>
<tr>
<td>Donaghey College of Engineering and Information Technology Courses</td>
<td>$567.00</td>
</tr>
</tbody>
</table>

### Fees Per Semester Hour

<table>
<thead>
<tr>
<th>Required Fees:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Facilities (excluding Law School)</td>
<td>$7.00</td>
</tr>
<tr>
<td>General</td>
<td>$18.00</td>
</tr>
<tr>
<td>Athletic</td>
<td>$16.66</td>
</tr>
<tr>
<td>Health Services</td>
<td>$2.20</td>
</tr>
<tr>
<td>Technology Infrastructure</td>
<td>2.75</td>
</tr>
<tr>
<td>Application Processing (1st Time Applicant)</td>
<td>$40.00</td>
</tr>
<tr>
<td>Re-application Processing (Per re-application)</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College Technology Fees:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts, Humanities, and Social Sciences Courses</td>
<td>$8.10</td>
</tr>
<tr>
<td>Business Courses</td>
<td>$8.10</td>
</tr>
<tr>
<td>Education Courses</td>
<td>$8.10</td>
</tr>
<tr>
<td>Engineering and Information Technology Courses</td>
<td>$11.90</td>
</tr>
<tr>
<td>Professional Studies Courses</td>
<td>$8.10</td>
</tr>
<tr>
<td>Science and Mathematics Courses</td>
<td>$12.30</td>
</tr>
<tr>
<td>Off-Campus Courses (includes web based courses)</td>
<td>$10.00 – $25.00</td>
</tr>
</tbody>
</table>

### Special Fees (as applicable)

| Campus ID Card Replacement                    | $15.00 |
| Installment Payment Plan                      | $30.00 |
| International Student Application             | $40.00 |
| International Student Service (per term)      | $150.00|
| International Student Health Insurance (Market Rate) | per year $1,210.00 |
| Late Installment Payment Plan                 | $100.00|
| Late Installment Payment (per payment)        | $30.00 |
| Late Payment (depending on date)              | $50.00 – $100.00 |
| Late Registration                             | $100.00|
| Library Non-student User Circulation          | per semester $45.00 |
| Optional Individual Math Skills Review        | $150.00|
| Returned Check                                | $20.00 |
| Transcript (Official Copy)                    | $5.00  |

### Program Specific Fees

| Ph.D. and Ed.D. Degree Graduation Fee         | $80.00 |
| Thesis Publication Fee                        | $45.00 |
| Dissertation Publication Fee                  | $55.00 |
| Art Studio Materials                          | $12.00 |
| Audiology/Speech Pathology Practicum          | $20.00 |
| Education                                     |        |
| Experimental Learning Fee (per course)        | $25.00 – $60.00 |
| Praxis Testing (Dependent upon subject)       | $65.00 – $90.00 |
| Student Teacher Practicum Supervision In-state| $210.00|
| Out-of-state                                  | $315.00|
| Music Private Applied Instruction             |        |
| half-hour lesson (1 credit hour course)       | $60.00 |
| one hour lesson (2 or 3 credit hour course)   | $100.00|
| Nursing                                       |        |
| Testing                                       | $25.00 |
| Clinical Nursing                              | $30.00 |
| Performing Arts Production                    | $12.00 |
| Social Work Placement (per semester)          | $60.00 |

### Housing Fees

| Residence Hall                                |        |
| Application Processing                         | $35.00 |
| Security Deposit                               | $100.00|
| Fall and Spring Semesters (per term)           |        |
| Double Bedroom                                 | $1,765.00|
| Single Bedroom                                 | $2,465.00|
| Laundry Fee                                    | $33.00 |
| Summer (per five-week term)                    |        |
| Double Bedroom                                 | $475.00|
| Single Bedroom                                 | $680.00 |
| Laundry Fee                                    | $11.00 |
| Residence Life Programming Fee                 |        |
| Fall and Spring (per term)                     | $16.00 |
| Summer (per term)                              | $6.00  |
| UALR-owned Houses and Apartments                |        |
| Price per month                                |        |
| a) Depending on size, furnishings, and condition. | $450-$750 |
| Meal Plans                                     |        |
| Residential Plans (per term)                   | $500.00 – $1,800.00 |
| Commuter Plans (per term)                      | $100.00 – $1,000.00 |

For the most accurate and comprehensive tuition and fee information, visit [http://ualr.edu/bursar/index.php/home/tuition-and-fees/](http://ualr.edu/bursar/index.php/home/tuition-and-fees/).

Tuition and fee charges for classes that are taken for audit are the same as those for credit classes. Other fees for seminars and special courses may be charged. All fees are subject to change without notice. All tuition and fees are due at the time of the student’s registration. UALR accepts MasterCard, Visa, and Discover. Students whose tuition checks are returned are subject to administrative withdrawal. Any student who is an Arkansas resident and has reached the age of 60 years or older by the last day of registration may enroll (on a space available basis) free of tuition. In such cases, special fees for certain leisure science and music instruction courses are required. Students must provide proof of age to the Office of Undergraduate Admissions.
Parking Fees

Every student who parks a motorized vehicle on the main UALR campus is required to register that vehicle with the Department of Public Safety and display a parking permit as instructed. There is no fee to register one vehicle. Permits for additional vehicles are $20 annually.

Reserved parking fees are $150.00 annually for twenty four hour access. Lot choices are lot #s 3, 4, 5, 7, 8, 9, and the lower level of the parking deck. Reserved parking is available on a first come first served basis. Reserved parking may be arranged at the Department of Public Safety. Students are also allowed to park in the metered lots or UALR’s parking deck. The fee for parking in the metered lots is $1.00 per hour with a 2-hour time limit, and the fee for the parking deck is $1.00 per exit.

Schedule Adjustment

Students who reduce their course load by dropping one or more courses may or may not be entitled to a reduction in charges. Visit boss.ualr.edu/ and choose the UALR Registration Guide and Class Schedule for the dates of the schedule adjustment period.

Tax-Deductible Educational Expenses

The cost of college educational expenses may be deductible on an individual’s federal income tax return if classes are taken:

- To maintain or improve the skills required in the individual’s trade or business, or required in performing a present job
- To meet the specific requirements of an employer or the requirements of law for retention of present employment, salary, or status
- Such that the criteria for the Hope Scholarship Credit or the Lifetime Learning Credit are met
- These credits can be applied to tax returns if the student meets the eligibility requirements.

This section should not be construed as tax advice. Students should consult a tax advisor or contact the local office of the Internal Revenue Service.

Withdrawal from UALR

Students voluntarily withdrawing from UALR must complete the University Withdrawal Form and have an exit interview with a staff member in the Office of Financial Aid if receiving financial aid. Withdrawal forms are available in the Office of Records and Registration. The last day to officially withdraw from the University without a grade penalty is listed in the Academic Calendar and on the UALR website. Students who fail to officially withdraw will be reported as having failed the course work for the semester, and grades of F will appear on their official transcripts. Students who have questions about withdrawing should contact the Office of Records and Registration.

Refund

Students who officially withdraw from UALR (withdrawal from all classes) during a regular fall or spring semester are entitled to a refund of instructional fees in accordance with the following schedule:

- 1st class day through the 5th class day – 100%
- 6th class day through the 10th class day – 50%
- After the 10th class day – No refund

To avoid charges for a summer term, a registered student must officially withdraw from all classes prior to the first day of classes for that term. Refund schedules for current terms may be found in the UALR Registration Guide and Class Schedule.

1. Non-attendance does not constitute a withdrawal.
2. An official withdrawal does not penalize or prevent a student from re-enrolling at a future date.
FINANCIAL AID & SCHOLARSHIPS

Office of Financial Aid
Student Services Center, 2nd Floor | (501) 569-3127 | fax (501) 569-8956 | ualr.edu/financialaid

Students who want to enroll at UALR should correspond with the Office of Financial Aid as soon as possible because official determination of eligibility for financial aid can be made only on receipt of official credentials.

UALR offers aid from various sources including federal and state governments, UALR, and private organizations, to help students pay for their studies. Financial aid and Scholarships are meant to supplement a student’s ability to pay for college costs including tuition and fees, room and board, books, supplies, transportation, and other educational expenses.

To be eligible for any form of financial aid, a student must be accepted for admission with an eligible admission status and be enrolled at UALR as a degree-seeking student. Students who wish to apply for financial assistance must complete the Free Application for Federal Student Financial Aid (FAFSA) each year. Students may apply online at fafsa.gov. Applications are available in January of each year for the upcoming academic year that begins in August students are encouraged to apply early.

Additional financial aid information can be obtained by calling (501) 569-3035 or by emailing: financialaid@ualr.edu.

Types of Financial Aid

Financial aid available to UALR students includes grants, loans, scholarships, and employment. Aid packages can include a combination of different types of aid.

- **Grants**: financial aid that the recipient does not have to pay back.
- **Loans**: borrowed money that must be repaid with interest.
- **Scholarships**: gift aid with eligibility based on academic achievements, talents, skills, or merit.
- **Employment**: part-time on-campus and community service jobs that allow the student to earn money to help pay for school.

The majority of the financial aid available at UALR is provided by the federal government. The State of Arkansas also provides student aid, as do UALR and its contributors.

Federal Aid

The U.S. Department of Education provides funding for grants, student loans, scholarships, and employment. Most awards are based on financial need; some are based on merit. Federal student aid includes the Federal Pell Grant, Federal Stafford Loans, Federal Parent Loan for Undergraduate Students, Federal Graduate PLUS Loan, Federal Supplemental Educational Opportunity Grants, Federal Work Study, and various scholarship awards. The Free Application for Federal Student Aid (FAFSA) is the application required for all federal financial aid and can be completed online at fafsa.gov. The UALR school code is 001101.

State Aid

The Arkansas Department of Higher Education (ADHE) provides loans, grants, and scholarships to Arkansas residents enrolled at UALR. Award criteria include financial need, academic achievement, and/or study of specific subjects. For additional information about financial aid, call ADHE at (800) 54-STUDY, or in the Little Rock area, (501) 371-2050, or visit www.adhe.edu. Programs like the Arkansas Academic Challenge (lottery) Scholarship require the YOUniversal application to be completed by June 1. Awards may be renewable and can be a great financial supplement.

Private Aid

UALR offers scholarships and grants-in-aid provided by institutional and departmental funds, private foundations, corporations, and individuals. Eligibility requirements vary. Criteria for different scholarships include academic achievement, demonstrated talent or ability, a specific major or student classification, university or community involvement, and/or financial need. Some scholarships are available for part-time students.

The priority deadline to apply for UALR scholarships is December 1 for the coming academic year. Different scholarships have different final deadlines. Learn more about scholarship opportunities at ualr.edu/scholarships. Scholarships may be awarded for academic merit, talent, or in support of your academic program of study. Students are encouraged to apply for the many funding opportunities.

Veterans Benefits

The U.S. Department of Veterans Affairs provides basic programs for veterans and service members seeking assistance for education or training. Veterans and service members who entered the military from January 1, 1977 through June 30, 1985 may receive educational assistance under the Veterans Educational Assistance Program (VEAP) contributory plan. Individuals entering on active duty after June 30, 1985 may receive benefits under the Montgomery GI Bill contributory plan. Another educational entitlement program, referred to as the Montgomery GI Bill Selected Reserve (chapter 1606 and 1607 REAP), is available for members of the Selected Reserve, including the National Guard. Note: The Post 9/11 GI Bill is a new education benefit program for individuals who served on active duty on or after September 11, 2001. Please visit the GI Bill website or call 1-888-GIBILL-1 for additional information.

The noncontributory GI Bill ended on December 31, 1989. No benefits are payable for any training pursued on or after January 1, 1990 under this bill.

Monthly educational assistance benefits are based on the number of hours of enrollment. Full-time enrollment for an undergraduate student during fall and spring terms is 12 hours or more; three-quarter enrollment is 9 to 11 hours; half-time enrollment is 6 to 8 hours. Fewer than six hours only tuition and fees are reimbursed, except in the case of the MGIB for Selected Reserve/National Guard (Chapter 1606), these benefits are based on one-fourth of the full-time amount. Full-time enrollment for graduate students during fall and spring terms is 9 hours or more; three-quarters enrollment is 6 to 8 hours; half-time enrollment is 3 to 5 hours. Summer benefits for both graduate and undergraduate students are based on the number of hours enrolled and the number of weeks in the term.

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There are Survivors/Dependents benefits for eligible persons. For further information contact the VA Regional Office at (800) 827-1000.

Other services available under the Veteran’s Affairs educational benefits include tutorial assistance, educational loans, and work-study.

Students classified as non-degree seeking or provisional may be eligible to receive Veteran’s Education benefits for one semester.

All eligible persons wishing to apply for Veteran’s Affairs educational benefits should contact the Office of Veterans Affairs at (501) 682-VETS (8387).

**Scholarships for Freshmen**

UALR offers a number of competitive scholarships. Chancellor’s Leadership Corps Scholarships are awarded to freshmen who have demonstrated outstanding leadership capability in high school activities. Donaghey Scholars Program Scholarships are most often awarded to high school seniors with exceptional academic promise. See “Academic Policies & Requirements” on page 25 for specific academic or talent awards and scholarships, or contact the appropriate department.

EIT Scholar scholarships are awarded to outstanding entering students in Computer Science, Information Science, and Systems Engineering. EAST Scholarships are available to selected students who participated in the EAST Program in high school. Science Scholars is a scholarship and enrichment program for students majoring in biology, chemistry, and earth science.

Entering Freshman Scholarships are based on availability of funds and awarded to selected high school seniors who meet the February 1 final deadline and have at least an ACT composite score of 24. A Freshman Award may also be available to students with an ACT composite score of at least 22. There are also scholarships available to students transferring from Arkansas public junior and community colleges. Applications and further information for these scholarships are available online at ualr.edu/scholarships Students are encouraged to apply by the December 1 priority deadline.

**Private Scholarships and Awards**

The Office of Development publishes a comprehensive list of private scholarships and awards available to all students. Additional information as well as applications can be obtained by contacting the Office of Development at (501) 569-3194.

**Applying for Nationally Recognized Scholarships and Fellowships**

As applications for the more prestigious scholarships often must be made while the student is still an undergraduate, students are encouraged to think ahead and start work on the application process at the earliest possible time.

Commencing research on scholarship possibilities during the freshman year is not too early. UALR offers considerable support and assistance to undergraduate students seeking scholarships for graduate study. The University has had recent winners in the Truman, Rhodes, and Mellon competitions, and has had many students win other prestigious national awards and scholarships. Students are encouraged to aim high in their scholarship goals, and take advantage of the assistance and advice that professors at UALR can offer.

Students should visit Fellowships webpage for further information on the Truman Scholarship, Rhodes Scholarship, Marshall Scholarship, James Madison Fellowship, National Security Education Fellowship (all of which fund graduate study); and the National Security Education Scholarship, Udall, and Goldwater Scholarships (which fund undergraduate study).

The website includes for each scholarship a statement of the purpose for which the sponsoring institution is underwriting the funding; an overview of the eligibility requirements; some remarks on important features of the written application; a description of the application process and summary of deadlines; and the person on campus to contact for further information.

Interested students should inquire early. Call (501) 569-8399, for general information or a referral to the appropriate scholarship advisor.
Academic Success Center
Kimberly Bright, Director
Speech Building, Room 101 | (501) 569-3280 | (501) 569-3420 | ualr.edu/academicsuccess/

The Academic Success Center (ASC) offers multiple services designed to assist students in learning the tools to be academically successful at UALR and use those same tools to be successful in life after graduation and is located in Speech Building 101, with hours of operation 7:30 a.m. to 6 p.m. Monday through Thursday, and 7:30 a.m. to 5 p.m. on Friday. The ASC houses 5 distinct programs:

1. The Collegiate Success Program (CSP) provides personal attention to entering first-year and transfer students needing to complete developmental Reading and Composition coursework with a two-semester, structured learning experience including workshops and/or community building activities,
2. The CSP-Academic Probation (CSP-AP) is designed to give student currently on probation the intrusive support necessary to return to satisfactory academic standing,
3. The Program for Enhanced Learning (PEL) provides developmental courses in reading and writing,
4. Student Support Services (SSS) is a federally supported program aimed at providing additional academic support and assistance to traditionally underrepresented populations, and
5. The Ronald McNair Scholars program is another federally supported program designed to help underrepresented populations do the necessary preparation to successfully apply, attend and complete a doctoral research program.

Adult Learners (Nontraditional Students)

Adult learner is defined as a student 25 years of age or older who is beginning or returning to school after being away from college for a number of years and who plans to enroll in credit courses. To respond more effectively to this group’s needs, the Office of Campus Life serves as an advocacy and referral office and assists new adult students.

The Non-Traditional Student Program (NTSP) is designed to help nontraditional students be successful in obtaining their educational goals. NTSP helps students navigate the university and provide information about resources, services and opportunities that UALR offers. Additional information may be found on the website http://ualr.edu/campuslife/ntsp/about-non-traditional-student-programs/ or by calling (501) 569-3308.

Alumni Association

The UALR Alumni Association sponsors a variety of activities for students and former students including homecoming, reunions, speaker series, and other special events. The association offers several scholarships, including one to a second-generation student, and it cosponsors GradFest each fall and spring semester. Members receive on-campus discounts and receive Alumnus, the publication of the Alumni Association. The Alumni Association offers a basic membership option or membership in a specific constituency group, and is open to all former students of UALR and its predecessor institutions (Little Rock University and Little Rock Junior College) for a small annual membership fee.

Bookstore

The UALR Bookstore is located in the Donaghey Student Center complex and is the book center for the campus community. In addition to providing required and recommended textbooks, the Bookstore has a general book department with a basic selection of books, special promotions, school and office supplies, and a special order service. The gift department includes jewelry, imprinted clothing, and greeting cards. University class rings are ordered individually for graduating students. The Bookstore is managed by Barnes and Noble Bookstores, Inc., and is a member of the National Association of College Stores and the Southwest College Bookstore Association.

Campus ID Card

The UALR photo Campus Card is required to access the Donaghey Student Center Fitness and Aquatics Center, library, athletic events, and special activities, and to perform check cashing and enrollment adjustments.

The ID Card is also used as a debit card for those students on a meal plan and/or receiving book vouchers. The card may not be used by any person other than the one to whom it is issued, and it must be surrendered on the request of any official of the University. If an ID card is lost, another can be obtained at the Donaghey Student Center for a fee. Campus Cards are issued at the Donaghey Student Center during regular operating hours.

Office of Campus Life

The professional staff members in the Office of Campus Life are dedicated to the development of the whole student, believing that the best way to educate people is to integrate fully all objectives of learning.

The Office of Campus Life has primary responsibility for the following:

- New student orientation and programs
- Advocacy programs for women, adults, and minorities
- Campus celebrations
- Social Greek life advisement
- Registration and advisement of student organizations
- Allocation and administration of the student activity fee
- Peer tutoring services
- Administrative support for registered student organizations

For more information regarding the above programs and services, contact the Office of Campus Life (501) 569-3308.
Chancellor's Leadership Corps

The Chancellor's Leadership Corps is composed of approximately 60 freshmen who are selected for membership on the basis of leadership, scholarship, and service. A renewable tuition and fees scholarship is awarded to every member. The students serve as ambassadors of the University, participate in community service projects, and enjoy numerous social activities as part of a leadership practicum. Two hours of academic credit may be earned for successful completion of the practicum, which offers an orientation to campus and leadership development. For more information contact the Office of Undergraduate Admissions.

Counseling and Career Planning Services

The Career Services provides quality services and programs designed to educate UALR students and alumni in the career development process, thus helping you gain a competitive advantage in a global economy. All students are invited to visit the office in the Student Services Center, room 119 to take advantage of the many resources it offers. For all additional assistance and information, please visit UALR's Counseling and Career Planning web site at ualr.edu/careerservices/

Disability Resource Center

The Disability Resource Center collaborates with faculty, staff, and students to make UALR accessible to everyone. Their expertise is at the intersection of disability and design, and so the DRC works with the campus community to ensure that physical, web environments are designed to be barrier-free to the extent possible. Some barriers to access can’t be removed in a timely manner, and so that’s when they work one-on-one with students to determine accommodations. This is a collaborative process between the DRC and the student, and when needed, with faculty.

The DRC believes that disability is an aspect of diversity that is integral to our society and to the UALR campus community. The DRC also believes that creating and maintaining usable, equitable, inclusive and sustainable learning environments is a shared responsibility of the campus community. Designing learning environments with usability in mind benefits all students at UALR. The ultimate indicator of our success is when students with disabilities can access their environments as seamlessly as do non-disabled students.

The DRC strives to work proactively with the campus on accessibility issues by serving on many committees, and by doing presentations to colleges and departments across campus on good course design and accessibility issues.

For more information, contact Disability Resource Center by visiting ualr.edu/disability/ or call (501) 569-3143. The office is located in the Donaghey Student Center, Room 103.

Donaghey Student Center

Located at the heart of the campus, the Donaghey Student Center (DSC) supports the University of Arkansas at Little Rock in its dedication to Development, Service, and Community. The DSC provides facilities and services unique to university life. It is one of the few buildings in the nation that combines a traditional student center with a fitness and aquatics center.

Many exciting developments are in progress on campus and the transformation is underway for the DSC to connect to our new Student Services Center. During the construction process, walking routes will be affected throughout varying phases of construction. The staff of the DSC endeavors to provide a facility that is practical and fully operational throughout this process. The staff invites all students, faculty, and alumni to explore the many activities, programs, and services that are available within the DSC.

<table>
<thead>
<tr>
<th>SERVICES</th>
<th>CONTACT INFORMATION</th>
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</thead>
<tbody>
<tr>
<td>Administration, (Room 101)</td>
<td>(501) 569-8958</td>
</tr>
<tr>
<td>General Office</td>
<td>(501) 569-3362</td>
</tr>
<tr>
<td>Aquatics, (Room 106)</td>
<td>(501) 371-8011</td>
</tr>
<tr>
<td>Campus Life, (Room 216)</td>
<td>(501) 569-3308</td>
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<tr>
<td>Conference Services, (Room 210A)</td>
<td>(501) 569-3324</td>
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<tr>
<td>Dining Services, (Room 211B)</td>
<td>(501) 569-3361</td>
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<tr>
<td>Disability Resource Center, (Room 103)</td>
<td>(501) 569-3143</td>
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<tr>
<td>Educational, Student Services, &amp; Student Life, (Room 215)</td>
<td>(501) 569-3328</td>
</tr>
<tr>
<td>Equipment Services, (Room 106D)</td>
<td>(501) 569-8284</td>
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<tr>
<td>Environmental Services, (Room 101)</td>
<td>(501) 683-7127</td>
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<tr>
<td>Fit/Well, (Room 109D1B)</td>
<td>(501) 569-3228</td>
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<tr>
<td>Information and Call Center, (Room 101A)</td>
<td>(501) 569-3362</td>
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<tr>
<td>Intramural teams, (Room 109D1C)</td>
<td>(501) 569-8078</td>
</tr>
<tr>
<td>Health Services, (Room 102)</td>
<td>(501) 569-3188</td>
</tr>
<tr>
<td>Reception Services, (Room 101D)</td>
<td>(501) 569-3413</td>
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Educational and Student Services

The vice chancellor for educational and student services has the general responsibility for coordinating services to students. These services include the UALR Bookstore, cooperative education, counseling and career planning, dining services, disability support services through the Disability Resource Center, fitness and aquatics, health services, housing, personal enrichment courses, intramural and recreational activities, orientation programs, student activities, and testing services and student life research.

Greek Organizations

UALR has a wide variety of Greek social fraternities and sororities, as well as honor and recognition societies and professional fraternities. These traditional college student organizations (called Greek organizations because of their Greek names) provide democratic, social, and leadership experience; give value beyond the college years; create an ever-widening circle of service beyond membership; answer the yearning for spiritual expression and guidance; and fill the need to belong. Membership is by invitation, following a formal “rush week” during which each sorority and fraternity holds parties for potential members to learn about the organizations. For more information or to participate in rush week, call the Office of Campus Life, (501) 569-3308.

Health and Accident Insurance

Students are responsible for their own health and accident coverage while enrolled at UALR. An optional student group health insurance plan is offered to UALR students, their spouses, and dependent children. Information and applications are available in the Office of Health Services. Students must apply for this health insurance plan within 30 days of the first day of class for the fall term or may enroll at the beginning of the spring semester on a prorated basis for eight months. Insurance is mandatory for international students.

Health Services

Health Services is an ambulatory clinic providing cost-effective, accessible health care for students, faculty, and staff of the UALR campus community. Health Services is a department within the Division of Educational Student Services and Student Life and is conveniently located in the Donaghey Student Center (Suite 102) next to the DSC Information Desk and across from the bookstore.
Our medical staff includes board-certified Advanced Practice Nurses and Registered Nurses, as well as a Consulting Physician.

Physical examinations are not required of UALR students, but proof of immunization for measles and rubella is required of all applicants born after January 1, 1957.

Students with medical problems or physical disabilities are encouraged to fill out a brief information card at the Office of Health Services by the end of the first week of classes. All patient information is confidential.

The student health fee covers all office visits. There are additional charges for diagnostic testing/labs, certain procedures (paps), and vaccines.

**Hours of Operation**
Monday - Friday: 8:00 a.m. - 5:00 p.m.
By appointment, with same-day appointment availability.

**How to Access Care**
Schedule an appointment by calling (501) 569-3188.

**Housing**
Living on campus at UALR is an opportunity to be in the middle of it all. Being a part of a residential community has many perks, from a greater chance at academic success to a built-in social setting that is brimming with possibility.

Each of the four halls and the new University Village are equipped with such amenities as furnished rooms, internet access, cable connections, and reserved student parking. And let’s not forget about laundry, fitness and recreation areas, and the UALR Dining Experience! So find out what’s in store for you at UALR – Discover UALR housing!

UALR offers a variety of housing options to meet the needs of a diverse student body. Browse the choices below to find out which one fits you best before filling out your housing application.

UALR adheres to all federal and state regulations and guidelines regarding nondiscrimination in housing. Inquiries may be made to the Office of Student Housing at (501) 661-1743.

**Information Center**
The Information & Call Center is located on the first floor of the Donaghey Student Center (DSC), Room 101. A team representative is available at the desk during our regularly scheduled hours to assist you.

The Information Center is open from 7 a.m. to 7 p.m. Monday through Thursday and 7 a.m. - 5 p.m. Friday (during regular sessions). The Information Center’s telephone number is (501) 569-3362.

**Intercollegiate Athletics**
The UALR athletic program is a member of the National Collegiate Athletic Association Division I and abides by NCAA rules and regulations. Men’s and women’s teams compete in the Sun Belt Conference. Men’s sports include baseball, basketball, cross country, tennis, and water polo. Women’s sports include basketball, cross country, soccer, swimming, tennis, track, and volleyball.

Any student interested in intercollegiate sports participation is encouraged to try out. Interested students should contact the director of athletics.

**Office of International Services**
This office is responsible for foreign student orientation, assists international students regarding living and studying on an American campus, assists with housing, provides advisory services for matters involving nonacademic concerns, and helps develop programs to bring foreign and U.S. students together. The office works in cooperation with other units on campus that serve international students. For more information, phone (501) 569-3582. (See the International Services section of this catalog.)

**Intramural-Recreation Services**
Intramural-recreation services are offered by the Donaghey Student Center. Services offered include open recreation, fitness, aquatics, intramural sports, outdoor recreation, instructional sports, and club sports. Intramural sports programs include flag football, swimming, volleyball, basketball, tennis, golf, table tennis, and more. There are also workshops to assist students in sharpening some sports and other leisure pursuits. These include land and water aerobic classes, swimming lessons, and special fitness events. Students may also get a fitness assessment and guidance from the fitness and wellness staff. Strength training and conditioning assistance is always available in the weight room. This office also serves the facility and programming needs of recognized student organizations that are sports or recreation related. For more information call (501) 569-8284.

**New Student Orientation**
Your life changes when you enter college. Your days will soon be even busier and filled with new challenges, priorities and activities. Students who become familiar with their campus, the faculty and staff, and available resources enhance their chances for success. Students admitted to UALR will receive an email invitation, at the email address provided on the admission application, to complete online orientation or attend orientation on campus.

Additional information is available at ualr.edu/campuslife/orientation/or you may contact the Office of Campus Life.

**Orientation Leaders**
Orientation leaders assist in a variety of activities designed to welcome new students and their families. Criteria for orientation leader selection include the ability to interact well with others and to communicate information about the University; successful scholastic achievement; and evidence of previous leadership roles. Faculty, staff, and administrators are invited to recommend students for orientation leader selection. For more information, contact the Office of Campus Life.

**Ottenheimer Library**
The library plays a key role in every student’s education. Students are urged to visit the library early and often in their academic careers. The library staff provides a number of reader’s services, including information about the automated card catalog, special collections, reference materials, and internet resources.

The UALR Ottenheimer Library is an open-stack library, which means patrons may select the book they want instead of waiting for a staff member to retrieve it. However, that puts a special obligation on users to act responsibly by not taking more than they need and by not taking books without checking them out.

Ottenheimer Library meets a variety of student, faculty, and general public needs. Over 2,300 people use the library on an average day. The library’s staff provides circulation services, access to assigned readings in the Baum Reserve Reading Room, interlibrary loans, and reference assistance. Reference librarians also conduct course-specific instruction sessions and assist students accessing information through the library’s online catalog, in-house databases, and the internet.

The library holds more than 480,000 volumes, subscribes to about 2,000 periodicals, and has access to more than 20,000 electronic journals. The library also subscribes to more than 100 electronic databases. In addition, it houses a microform inventory of nearly one million items along with over 10,000 phonograph albums, audio books, and music compact disks. As a selective depository for federal documents, the library receives about 30 percent of the items offered by the Government Printing Office in Washington, D.C. Ottenheimer Library is the state’s only depository of European Union documents and also collects Arkansas state documents. Overall, the library contains more than 300,000 government documents. The Archives and Special Collections Department highlights materials specific to UALR, Arkansas, and the lower Mississippi Valley.
Individual study carrels and self-service photocopiers are available for faculty and student use. Along with microfilm reader-printers, the Instructional Media Services area provides equipment for visually-impaired students. This includes Braille dictionaries, closed-captioned television, and a Reading Edge machine. Instructional Media Services supplies equipment and video programs directly to classroom faculty while serving the larger campus community through teleconference down-links.

Ottenheimer Library subscribes and contributes to the Online Computer Library Center (OCLC) and is a founding member of its regional AMIGOS network. In addition to providing authoritative cataloging data, these services allow UALR faculty and students prompt interlibrary loan access to the millions of items held by other member libraries. The library also participates in direct-to-user reciprocal borrowing with the nine other University of Arkansas System libraries.

The library is open 87 hours a week when classes are in session; the schedule expands during final exam week. The building is open to the public and all collections are available for in-house use. Library hours in the fall and spring semesters are 7:45 a.m. to 10:45 p.m. Monday through Thursday, 7:45 a.m. to 4:45 p.m. Friday and Saturday, and 1:00 p.m. to 9:45 p.m. Sunday. Summer hours are 7:45 a.m. to 9:15 p.m. Monday through Thursday, 7:45 a.m. to 4:45 p.m. Friday, 9:00 a.m. to 12:45 p.m. Saturday, and 1:00 p.m. to 6:45 p.m. Sunday. Hours vary during holiday and semester breaks.

General information is available by calling (501) 569-3123. The telephone number for reference and documents assistance is (501) 569-8806.

Library Archives and Special Collections

The Ottenheimer Library's Archives and Special Collections Department, located on the second floor of the Library, houses materials on Arkansas and the lower Mississippi Valley. The department contains more than 5.5 million items of archival or manuscript material; 16,250 books; 4,500 pamphlets, posters, and similar materials; 25,000 photographs and postcards; a variety of memorabilia; and the library's non-circulating book collection.

Public Safety

The UALR Department of Public Safety (DPS) is responsible for maintaining an orderly, safe environment for the pursuit of education, and it works in many ways to serve, protect, and assist the students, faculty, staff, and their guests. Police service is provided 24 hours a day, seven days a week, and University police officers are commissioned law enforcement officers with the same authority and arrest powers as city police officers. The public safety telephone number is (501) 569-3408; (501) 569-3400 for emergencies.

Public Safety provides parking and traffic control, individual assistance, crowd control at campus events, crime control, and crime prevention information. Brochures listing traffic, parking, bicycle, pet, and other regulations are available in the public safety office, and these regulations are detailed in the UALR Student Handbook. University police officers are there to help, but students are responsible for knowing and obeying University regulations.

The department should be notified immediately in the event of theft, assault, public drunkenness or other disturbances, or any other criminal, dangerous, or suspicious activity. The Student Patrol, trained students equipped with radios, flashlights, and identifying caps and badges, regularly patrol the campus buildings and parking lots and are available on request as escorts to on-campus destinations.

Emergency telephones, direct lines to the public safety dispatcher, are located around campus and their use is encouraged. These phones are in small, gray metal boxes on poles topped with flashing blue lights. Simply pick up the receiver and wait for the dispatcher to answer.

UALR is in compliance with federal law requiring disclosure of statistics regarding arrests and certain crimes.

Speech, Language, and Hearing Clinic

This program provides evaluations and therapy for any student wishing assistance. The UALR Speech, Language, and Hearing Clinic is accredited in speech-language pathology and audiology and is supervised by certified speech-language pathologists and audiologists. Self, faculty, and external referrals may be made. Evaluations and therapy are scheduled at the faculty member’s and student’s convenience. The clinic is located in the University Plaza. Appointments may be scheduled by calling (501) 569-3155.

This clinic has the only diagnostic and rehabilitative training program in audiology in Arkansas. Audiological services include testing of hearing and communication skills, monitoring of hearing problems, hearing aid evaluations, hearing aid checks, training in speech reading, and counseling services for hearing-impaired students who may be experiencing difficulty in school because of hearing problems.

Speech and language services include evaluations and therapy in disorders of articulation, language, stuttering and clattering, voice, and organic disorders such as laryngectomy, aphasia, cerebral palsy, and cleft palate.

Some services are available at a reduced charge to regularly enrolled students. In addition, referrals are encouraged from community speech- and hearing-impaired children and adults.

Student Activities

The Office of Campus Life provides advisement to all registered student organizations including those funded by the activity fee, coordinates the assignment of student organization office space, and provides student development and leadership enhancement opportunities for UALR students. The office encourages a diversity of activities designed to entertain and educate while providing opportunities for student development through extracurricular experiences.

The Office of Campus Life is responsible for the fair and equitable allocation of the student activity fee, as well as for monitoring the expenditure and usage of the fee. The office develops and maintains the criteria and policies for the student activity fee allocation process.

Student Conduct

Student rights, responsibilities, and behavior as well as other information on matters of conduct and due process are described in the UALR Student Handbook. This publication is given to students at orientation or may be obtained from the Office of Educational and Student Services. Students are considered to be mature individuals who neither lose the rights nor escape the responsibilities of citizenship through enrollment at UALR.

Student Directory

Under the provisions of the Family Educational Rights and Privacy Act of 1974 (commonly known as FERPA), you have the right to withhold the disclosure of “Directory or Public Information” listed below. This includes:

• Student’s name,
• Address,
• Telephone number,
• Date of birth,
• Major field of study,
• Enrollment status,
• Grade level,
• Dates of attendance,
• Participation in officially recognized activities and
• Sports, weight and height (for members of athletic teams only),
• Honors,
• Degrees and awards received,
• Photograph,
• Most recent educational agency or institution attended, and
• E-mail addresses.
Student Government Association

The UALR Student Government Association (SGA) offers an opportunity for students to play an active role in the University’s affairs and provides information on campus policies, events, and organizations, and an avenue for students to make known their feelings about campus policies. SGA officers are selected by campus-wide election and represent the student body in the UALR University Assembly.

The association appoints student members to UALR’s administrative and standing committees, provides an appeal system for parking and traffic violation tickets, maintains open lines of communication between University policy makers and students, and provides meeting space for student organizations.

For more information or to become involved with the student government, call (501) 569-3210.

Student Organizations

There are more than 100 student organizations and clubs registered at UALR. These groups offer opportunities for leadership and student development experiences; recognize scholarship and leadership achievements at either the undergraduate or graduate level; and provide social experiences and opportunities to promote common interests in such areas as social action, politics, religion, philosophy, ethics, recreation, and hobbies. For a complete list of registered student organizations, or to register a student organization, contact the Office of Campus Life.

Student Publications

UALR recognizes three official student publications on campus.

1. *Equinox* is a student-run journal of contemporary literature and art at UALR.
2. *The Forum* is the UALR student newspaper. It is published weekly during the fall and spring semesters and four times during the summer.
3. *Quills and Pixels* is the peer-reviewed, student publication of the UALR Writers’ Network, an organization dedicated to spotlighting the importance of writing in society.

Testing Services

Brad Patterson, Assistant Vice Chancellor

Student Services Center, Room 315, (501) 569-3198
ualr.edu/testing

The Office of Testing Services and Student Life Research makes available assessment programs to provide information that assists students in educational and career planning, as well as personal decision making.

Information on national programs required for admission to graduate or professional schools is available, including the Graduate Management Admission Test, Graduate Record Examination, Law School Admission Test, Medical College Admission Test, Miller Analogies Test, Praxis series, Optometry Admission Test, and Test of English as a Foreign Language (TOEFL). In addition, the office administers a number of examinations for licensing and certification boards. Examinations are administered according to national schedules that require candidates to register with the appropriate national testing service according to fixed deadline dates. Information bulletins that include test dates and applications are available at the Office of Testing Services and Student Life Research, the Graduate School, and the Information Center. For more information call (501) 569-3198.

Computerized administrations of standardized tests are given at Pro-Metric Center in Little Rock, (501) 663-8341.

University Program Council

The University Program Council is a registered student organization that serves as a programming extension of the Office of Campus Life. UPC provides movie nights, lectures and comedians.

Any student who wishes to participate in UPC may become a member. Students who participate share in the presentation of student activity programs from beginning to end and may also serve in leadership positions within the organization. UPC members have the opportunity to work with many different groups to provide programs for a diverse campus population. Graduate with the experiential education that UPC programs provide!

The UPC is funded by the student activity fee and therefore, all events sponsored by the UPC are free to enrolled UALR students.

UPC meets every Wednesday at 5:00 p.m. in DSC 201T. If you would like more information about University Program Council, please contact the Office of Campus Life at (501) 569-3308 or visit the website ualr.edu/campuslife/upc.

University Academic Assistance Centers

Communication Skill Center

At the Communication Skill Center (CSC), students can receive help with a variety of communication-related skills, such as managing anxiety, presentation organization, effective delivery, and appropriate presentational aids. The CSC is a friendly environment located in SPCH 201. Graduate Assistants are responsible for managing the CSC. Undergraduate interns have been recommended by Speech Communication faculty, have undergone thorough training, and participate in weekly staff meetings. Additionally, the interns earn academic credit for the completion of a reflective portfolio and weekly service in the CSC.

Mathematics Assistance Centers

The Mathematics Assistance Centers (MAC I & II) are excellent places for students to study and do their homework. No appointment is necessary and the MAC I and MAC II are free to all UALR students. Each MAC is an excellent place to get help. Tutoring, DVDs and computers are available.

University Writing Center

The University Writing Center offers writing assistance to any student at any level. Computers for word processing are also available. Located in Student Union B 116, the University Writing Center is open six days a week. Hours change each semester.

For more information, come by or call (501) 569-8343. You may also visit the Center for help with writing at the University Writing Center Online: ualr.edu/owl/.

Vehicle Registration and Parking

Every student who owns or operates a motorized vehicle on the campus is required to register that vehicle and display a parking permit as instructed. A student may register one vehicle for open parking free of charge. Contact the Department of Public Safety for more information on registering vehicles (501) 569-3408.
The academic year includes two regular semesters in the fall and spring and a summer session of three terms. Some courses are also available between semesters during spring interim and winter interim.

The unit of credit is the semester hour. This unit is defined as credit earned for the completion of one hour per week in class for one semester. Two hours or more of laboratory work per week for one semester equal one semester hour of credit. UALR offers night and weekend courses, web-based courses, courses on campus and at various off-campus locations. Admission requirements, fees, and academic performance for night and weekend classes are the same as for day classes. Web-based courses are charged an additional fee.

Continuing education courses are offered as a service to specific professional and vocational groups of the community. These are available on both a credit and non-credit basis.

Degree Requirements

Baccalaureate Degree Requirements

To receive a baccalaureate degree, a student must complete the following requirements:

- A minimum of 120 hours of which 30 hours must be in residence and 45 must be upper level (3000 level or above). At least 15 upper level hours must be completed in residence. A baccalaureate degree program may require more than 120 semester hours of college credit if prior approval has been granted by the Board of Trustees or it is a requirement of an independent licensing or accrediting body. These required hours must include:
  - Except for majors that must adhere to standards established by national accrediting agencies, majors must have a minimum of 45 hours of upper level credit, at least 12 hours of which, chosen by the student, must come from other departments, and majors will include, as appropriate to the discipline.
  - a communication in the discipline course which covers writing and speaking,
  - a course which covers research methods, ethics, and critical thinking, and
  - instruction on technology within other required courses in the major.
- A minimum of a 2.0 cumulative grade point on all work attempted at the University.
- A minimum of a 2.0 cumulative grade point in the major.
- A core curriculum which must include a 3 hour course in U. S. history or U. S. government and a 3 hour course in College Algebra, College Math or higher level math course.
- A major and a minor, a combined major-minor, a double major or a major and an associate degree transferred from another institution in a program not offered at UALR.

Associate Degree Requirements

Except for certain programs as specified elsewhere in this catalog, all students receiving the associate degree (the AA or AS) must successfully complete 60 hours including the following 15 hours of core courses:

- RHET 1311 Composition I
- RHET 1312 Composition II
- SPCH 1300 Speech Communication
- HIST 2311 U.S. History to 1877, or HIST 2312 U.S. History since 1877, or POLS 1310 American National Government
- MATH 1321 Quantitative and Math Reasoning or MATH 1302 College Algebra

Graduation with an associate degree requires a C average (2.0 cumulative grade point average) on all work attempted at the University; completion of at least 20 hours above the freshman level, unless specified otherwise in the program; and completion of the final 15 hours (excluding credit by examination) in residence. Hours earned as credit by examination are counted as hours toward graduation but are not counted as hours in residence. See “Credit by Examination.”

Courses completed for an associate degree at UALR will be counted toward the appropriate requirements for the baccalaureate degree.

Second Associate Degree

An associate degree may be conferred as a second degree when the first degree is either a baccalaureate or another associate degree, subject to these provisions:

1. The second associate degree must be in a different discipline from the first degree.
2. Students must complete at least 15 credit hours in residence (excluding credit by examination) beyond their first degree.
3. Only credit earned at UALR after completing the first degree will normally apply toward the second degree. However, students in their final semester of studies toward the first degree may complete the course load for that semester with courses applicable to the second degree. Students must file a written statement of their intent to seek a second degree with the Office of Records and Registration at the time of registration.
4. A major must be completed. Courses completed within the previous degree that satisfy requirements for the second major may be accepted as satisfying course requirements, but not as hours toward the second degree. These hours do not count as part of the 30, except as specified in Item 3 above.
5. The core curriculum component in the second associate degree is not required. However, if not taken as a part of another baccalaureate degree, a course in United States history or government (HIST 2311, HIST 2312, or POLS 1310) must be completed. See “U.S. Traditions: United States History or Government Requirement.”

Additional Baccalaureate Degrees

Additional baccalaureate degrees may be conferred subject to these provisions:
1. Students must complete at least 30 credit hours in residence at UALR, including courses completed previously at UALR, but excluding transfer credit, credit-by-examination, experiential credit, and repeated courses.
2. A different major must be completed for each additional baccalaureate degree. Courses completed within the previous degree(s) that satisfy requirements for additional majors may be accepted as satisfying major requirements for additional degree(s), subject to approval by the major department.
3. If not taken as a part of another baccalaureate degree, a course in United States history or government (HIST 2311, HIST 2312, or POLS 1310) must be completed, see “U.S. Traditions: United States History or Government Requirement.” However, other general education requirements are not applicable to additional baccalaureate degrees.
4. A minor is not required.
5. There is no second language proficiency requirement for students seeking additional baccalaureate degrees.

UALR Core Curriculum (General Education Requirement)

A student seeking most baccalaureate degrees must complete a total of 44 hours in core courses. Listed below are the required categories, the number of hours required in each category, and the specific courses that will fulfill that requirement. Students majoring in a program of study offered through the Donaghey College of Engineering and Information Technology, as well as select programs within the College of Science and Mathematics, follow a different core.

English /Communications (9 credit hours)

Written and Oral Literacy

(All three of the following courses):
RHET 1311 Composition I
RHET 1312 Composition II
SPCH 1300 Speech Communication

Math (3 credit hours)

MATH 1302 College Algebra
MATH 1321 Quantitative and Mathematical Reasoning

Fine Arts/Humanities (9 credit hours)

Fine Arts

(Two of the following courses-6 credit hours):
ARHA 2305 Introduction to Visual Art
MUHL 2305 Introduction to Music
THEA 2305 Introduction to Theatre and Dance

World Humanities

(One of the following courses-3 credit hours):
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
PHIL 2320 Ethics and Society

Science (8 credit hours)

Lab Science

(Eight hours from the following courses):
ANTH 1415 Physical Anthropology
ASTR 1101 Introduction to Astronomy Laboratory
ASTR 1301 Introduction to Astronomy
BIOL 1400 Evolutionary and Environmental Biology
BIOL 1401 Science of Biology
CHEM 1409 Chemistry and Society
ERSC 1102 Physical Geology Laboratory
ERSC 1103 Historical Geology Laboratory
ERSC 1302 Physical Geology
ERSC 1303 Historical Geology

Social Sciences (15 credit hours)

World History

(Both of the following courses-6 credit hours):
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II

US Traditions

(One of the following courses-3 credit hours):
POLS 1310 American National Government
HIST 2311 US History to 1877
HIST 2312 US History since 1877

Individuals, Cultures, and Society

(Two of the following courses-6 credit hours):
ANTH 2316 Cultural Anthropology
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ERSC 2300 Science and Technology in Society
GNST 2300 Introduction to Gender Studies
GEOG 2312 Cultural Geography
MCOM 2330 Mass Media and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 Religious World Views
SOCI 2300 Introduction to Sociology

Core Requirements for Double Majors in the Donaghey College of Engineering and Information Technology

Either core is acceptable for a student pursuing a double major with one major in EIT and the other in a different college. However, should the student not complete the double major prior to a baccalaureate degree being awarded, the core required for the degree awarded must be completed. In all instances, program requirements normally satisfied by a core course must be completed whether or not that course satisfies a core requirement for the student. (Approved by the Undergraduate Council 10/13/99- EIT is referred to as CESE in the original policy.)
U.S. Traditions: United States History or Government Requirement

Arkansas law requires that all students who receive an associate or baccalaureate degree successfully complete a course in U.S. history or U.S. government.

This requirement can be met by HIST 2311 U.S. History to 1877, HIST 2312 U.S. History Since 1877, or POLS 1310 American National Government. Other United States history or government courses may also meet this requirement. However, the student should check with an advisor in the Department of History or the Department of Political Science before choosing to meet the requirement with any other course.

Second Language Requirement

B.A. Students

Students seeking a B.A. degree in any of the following majors are required to complete a 2000-level second language course or demonstrate equivalent proficiency as measured by a competency test. Languages which may be used to meet the second language requirement include French, German, Spanish, American Sign Language, and other languages as approved and arranged through the Department of International and Second Language Studies. Students may meet the requirement in one of the following ways:
1. Successfully completing a 2000-level second language course at UALR and satisfying all the prerequisites for that course.
2. Transferring the equivalent courses from another institution of higher education.
3. Demonstrating equivalent proficiency on a language test.

B.S.E. Students

Students seeking a B.S.E. in Early Childhood Education are required to complete 3 hours of a second language and 3 hours of English as a Second Language.

Students seeking a B.S.E. in Middle Childhood Education are required to complete 6 hours of a second language or English as a Second Language in any combination or level. Students may meet the requirement in one of the following ways:
1. Successfully completing a second language course at UALR and satisfying all the prerequisites for that course
2. Transferring the equivalent courses from another institution of higher education
3. Demonstrating equivalent proficiency on a language test.

B.S.W. Students

Students seeking a B.S.W. degree are required to complete the elementary I and II levels of a second language sequence of courses (Foreign Language 1311 and 1312 or Interpretation 1320 and 1321) or demonstrate equivalent proficiency as measured by a competency test. Languages which may be used to meet the second language requirement include French, German, Spanish, and American Sign Language. Students may meet the requirement in one of the following ways:
1. Successfully completing six hours of an approved sequence of second language courses at UALR
2. Transferring the equivalent courses from another institution of higher education to UALR
3. Demonstrating equivalent proficiency on a language test.

Demonstrating Proficiency in a Second Language to Satisfy the Requirements for B.A., B.S.E, and B.S.W. Degrees

Students who wish to meet second language requirements by demonstrating proficiency should take either the CAPE test or the American Sign Language Proficiency test before enrolling in UALR language courses. These tests are also used to determine placement in the appropriate language courses.

The following students do not need to take the test before enrolling in a language course:
• Students who have already completed UALR second language courses
• Students who have completed university-level courses for transfer credit in French, German, Spanish, or ASL*
• Students who have never studied French, German, Spanish, or ASL before and are enrolling in first semester courses in these languages.

*Courses in signing systems other than ASL such as manually coded English and conversational sign language will normally not apply. Contact the Department of Counseling, Adult and Rehabilitation Education (CARE) for more information.

Second language course waivers may be granted to students with verified disabilities, after examination by a special committee. Students seeking such a waiver should contact the Associate Vice Chancellor for Academic Affairs at (501) 569-3204.

French, German, or Spanish

Students must take a computerized, multiple-choice test (the F- CAPE, the G-CAPE, or the S-CAPE) coordinated by the Office of Testing Services and Student Life Research.

To demonstrate proficiency in a language other than French, German, or Spanish, students should contact the Department of International and Second Language Studies, Stabler Hall 201 at (501) 569-3272.

American Sign Language (ASL)

Students must take a two-part test administered by the Department of Counseling, Adult, and Rehabilitation Education’s (CARE) interpreter education program. The first part of the test is a written multiple choice exam. The second part is an interview with program faculty conducted in American Sign Language. Results of both the written test and interview are shared with the student at the end of the interview. Students should contact the Department of CARE for an appointment.

Placement and Credit Validation in Second Languages

Students who have acquired language skills before enrolling at UALR may request a test to find the level at which to enroll. If the final grade in that course is B or greater, the student will be awarded credit for the prerequisites (up to 12 hours).

English as a Second Language

Students whose first language is not English may use the following core courses (9 credit hours) to satisfy the second language requirement:
- RHET 1311 Composition I,
- RHET 1312 Composition II, and
- ENGL 2337 World Literature or ENGL 2338 World Literature Themes or PHIL 2320 Ethics and Society

Post-Baccalaureate Students

All students who have received a bachelor’s degree from a regionally accredited institution, including UALR graduates, and who wish to pursue an additional undergraduate degree or certificate at UALR are required to apply for undergraduate admission to the university by the published deadline. After all admission requirements have been met, these students will be admitted into Post-baccalaureate status. This policy also applies to International students who received an equivalent degree (as determined by UALR) from an institution outside the U.S. and who wish to pursue a 2nd undergraduate degree at UALR.
Course Eligibility Standards and Developmental Course Options

Test scores on the ACT, SAT, and COMPASS serve two purposes. The first as a criteria for admission and second for placement into appropriate courses.

Academic Literacy: RHET 0321

REQUIRED for students placing in:
- developmental reading only, OR
- both developmental reading AND writing, OR
- an ACT English score of 13 or less.

MUST enroll in RHET 0321 or take RPT

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 or less</td>
<td>ACT Reading</td>
</tr>
<tr>
<td>82 or less</td>
<td>Compass Reading</td>
</tr>
<tr>
<td>82 or less</td>
<td>EOC Compass Reading**</td>
</tr>
<tr>
<td>469 or less</td>
<td>SAT Critical Reading</td>
</tr>
<tr>
<td>13 or less</td>
<td>ACT English</td>
</tr>
<tr>
<td>38 or less</td>
<td>Compass Composition</td>
</tr>
<tr>
<td>359 or less</td>
<td>SAT I Writing</td>
</tr>
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</table>

EXEMPT from RHET 0321

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>19+</td>
<td>ACT Reading</td>
</tr>
<tr>
<td>83+</td>
<td>Compass Reading</td>
</tr>
<tr>
<td>83+</td>
<td>EOC Compass Reading**</td>
</tr>
<tr>
<td>470+</td>
<td>SAT Critical Reading</td>
</tr>
</tbody>
</table>

Composition Placement: RHET 0310 Composition Fundamentals Linked with RHET 1311

Composition I*

MUST enroll in RHET 0310 and 1311* or take CPT if
- any of the scores below are earned, AND
- the student is NOT required to complete Academic Literacy

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
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<tbody>
<tr>
<td>14-18</td>
<td>ACT English</td>
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<tr>
<td>79 or less</td>
<td>Compass Composition</td>
</tr>
<tr>
<td>79 or less</td>
<td>EOC Compass Composition**</td>
</tr>
<tr>
<td>449 or less</td>
<td>SAT Writing</td>
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</table>

May enroll in RHET 1311

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>19+</td>
<td>ACT English</td>
</tr>
<tr>
<td>80+</td>
<td>Compass Composition</td>
</tr>
<tr>
<td>80+</td>
<td>EOC Compass Composition**</td>
</tr>
<tr>
<td>450+</td>
<td>SAT Writing</td>
</tr>
<tr>
<td>Completed</td>
<td>RHET 0321 (Academic Literacy)</td>
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</table>

May enroll in RHET 1320

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>27+ and A or B in high school English</td>
<td>ACT English</td>
</tr>
<tr>
<td>98+ and A or B in high school English</td>
<td>Compass Composition</td>
</tr>
<tr>
<td>98+ and A or B in high school English</td>
<td>EOC Compass Composition**</td>
</tr>
<tr>
<td>610+ and A or B in high school English</td>
<td>SAT Writing</td>
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</table>

EXEMPT from RHET 1311

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>29+</td>
<td>ACT English</td>
</tr>
<tr>
<td>99+</td>
<td>Compass Composition</td>
</tr>
<tr>
<td>99+</td>
<td>EOC Compass Composition**</td>
</tr>
<tr>
<td>650+</td>
<td>SAT Writing</td>
</tr>
</tbody>
</table>

Math Placement

MUST enroll in MATH 0321

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>20 or less</td>
<td>ACT Math</td>
</tr>
<tr>
<td>44 or less</td>
<td>Compass Algebra</td>
</tr>
<tr>
<td>44 or less</td>
<td>EOC Compass Algebra**</td>
</tr>
<tr>
<td>499 or less</td>
<td>SAT Math</td>
</tr>
</tbody>
</table>

May enroll in MATH 1302, 1315, 1321, or take College Algebra MPT to attempt higher placement

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>21+</td>
<td>ACT Math</td>
</tr>
<tr>
<td>45+</td>
<td>Compass Algebra</td>
</tr>
<tr>
<td>45+</td>
<td>EOC Compass Algebra**</td>
</tr>
<tr>
<td>50+</td>
<td>Compass College Algebra</td>
</tr>
<tr>
<td>500+</td>
<td>SAT Math</td>
</tr>
</tbody>
</table>

May enroll in MATH 1303, MATH 1311, or MATH 1342

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>67+</td>
<td>Compass College Algebra</td>
</tr>
</tbody>
</table>

May enroll in MATH 1451

<table>
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<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>46+</td>
<td>Compass Trigonometry</td>
</tr>
</tbody>
</table>

*This is a linked course of Composition Fundamentals and Composition I.

**EOC (End of Course) scores reflect Compass tests administered as part of the legislative requirement for developmental courses. EOC scores are valid for credit bearing course placement.
Regulations

Graduation
These provisions apply to baccalaureate degrees:
- Hours earned as credit by examination are counted as hours toward graduation but are not counted as hours in residence. See “Credit by Examination.”
- A student may elect to graduate under the provisions of the UALR Undergraduate Catalog in effect during any semester in residence at UALR before qualifying for a degree. Students who interrupt their enrollment at UALR for more than five consecutive calendar years must use the catalog current at the time of readmission or later. A student transferring to UALR from regionally accredited four-year institutions, community colleges, or junior colleges with 13 or more hours of accepted credit may graduate under the provisions of a UALR Undergraduate Catalog in effect during any semester of the previous five years in which they were enrolled at the other institution. Note: At no time may a student follow the provisions of a UALR Undergraduate Catalog that is more than five years old at the time of the student’s entry into UALR.
- A student enrolled at UALR who intends to enroll concurrently or as a transient student at another accredited institution should obtain advance approval.
*Academic majors and colleges may specify more restrictive requirements which supersede these regulations and are detailed in each department section of this catalog.

Commencement Participation
A senior may participate in commencement exercises prior to the completion of all degree requirements if the student has achieved the following:
- A cumulative 2.0 grade point on all work attempted at UALR.
- A cumulative 2.0 Grade point in the academic major and in the academic minor.
- No more than nine hours remaining to complete degree requirements.
- Submitted a graduation application following prescribed procedures. See “graduation.”

Academic Policies

Academic Adjustment
In compliance with federal regulations, it is the policy of UALR to respond to student requests for course accommodation, substitution, and other adjustments because of a documented disability on an individual basis and in a manner that does not result in discrimination. Where requests are complex and not easily handled through the regular course substitution procedures, an established committee will review the case and make a determination.

Students who wish to request academic adjustments because of a disability should consult the academic adjustment procedures, which are printed in the UALR Student Handbook, or contact Disability Resource Center at (501) 569-3143.

Academic Hours
UALR students are encouraged to spend sufficient time outside of classes to master the subject content of their courses. Academic working hours include the time spent in classes as well as the time spent outside of classes on homework. The number of academic working hours can vary widely from student to student, depending on the preparation and ability of the student, the norms of different academic disciplines, and the expectations of individual faculty members. However, an average academic workload can be estimated from the general thumb rule that at least two hours of homework per hour of classes are necessary for an average student to master subject content with average (‘C’) grades.

Thus, the minimum number of academic working hours per week can be estimated by multiplying total credit hours by a factor of three. For example, a full-time student taking 15 credit hours should plan to spend at least 45 academic working hours per week attending classes and doing homework, e.g., reading, writing, studying, etc. Mastering the subject content of courses with above average (‘B’) or superior (‘A’) grades may require more time and effort. Finally, since mastery of subject content is the goal, no amount of study time can guarantee academic success—course grades and course credits are awarded for mastery of subject content, not time on task.

Academic Offenses
The most common offenses subject to grade penalty and/or disciplinary action are:
- Cheating on an examination or quiz: To give or receive, to offer or solicit information on any quiz or examination including (a) copying from another student’s paper; (b) using prepared materials, notes, or tests other than those specifically permitted by the professor during an examination; (c) collaborating with another student during an examination; (d) buying, selling, stealing, soliciting, or transmitting an examination, or any material purported to be the unreleased content of an upcoming examination, or the use of such material; (e) substituting for another person during an examination or allowing such substitution for oneself; (f) bribing a person to obtain examination information.
- Plagiarism: To adopt and reproduce as one’s own, to appropriate for one’s own use and incorporate in one’s own work without acknowledgment, the ideas of others or passages from their writings and works.
- Collusion: To obtain from another party, without specific approval in advance by the professor, assistance in the production of work offered for credit to the extent that the work reflects the ideas or skills of the party consulted rather that those of the person in whose name the work is submitted.
- Duplicity: To offer for credit identical or substantially unchanged work in two or more courses, without specific advance approval of the professors involved.

The university has developed certain regulations to make possible an orderly academic environment where all members of the community have the freedom to develop to the fullest extent. Academic dishonesty cannot be condoned or tolerated in the university community. Such behavior is considered a student conduct violation and students found responsible of committing an academic offense on the campus, or in connection with an institution-related or sponsored activity, or while representing the university or academic department, will be disciplined by the university.

Academic Probation
Students will be placed on academic probation at the end of a term if their cumulative grade point average (GPA) drops below a 2.0 GPA. Students on academic probation are limited to a maximum of 13 credit hours each semester. Students will continue on academic probation as long as their cumulative GPA continues to remain below a 2.0 GPA.

That effective fall 2011, freshmen and sophomores with an academic standing of Academic Prohibition or Prohibition Continued are required to participate in a special program offered by the Academic Success Center beginning the next semester in which they are enrolled for at least one hour. International Freshmen and International Transfer Students on academic probation will report to the Office of International Student Services. Student athletes on academic probation will report to the Academic Advisor or their coach in Athletics. Non-Degree Seeking Students are exempt from this requirement. A mechanism for waiving the requirement on a case-by-case basis for other students for whom physically reporting to the Academic Success Center is a practical impossibility—for example, students taking all online courses from a great distance from Little Rock—will be implemented.
Students will remain in the program until their cumulative GPA rises above 2.0 or they are academically suspended (after three consecutive semesters on probation).

Program activities will be tailored to fit the needs of the individual student based on the outcome of the intake assessment and the student will be assigned to a mentor. A contract will be signed by the student and the mentor.

Students needing fewer than 18 credit hours for graduation may request an exemption for the credit hours restriction to their academic advisor or department chairperson. Denial of this request may be appealed to the dean of the college and the provost.

**Advanced Placement Program**

Advanced Placement (AP) examinations are administered by selected secondary schools. Students who take AP exams should have official score reports sent directly to the UALR Office of Testing Services for evaluation. You may also contact the College Board at (888) 225-5427 to request scores be released to UALR; the school code for UALR is 6368. A list of AP course eligibility, exemption, or credit by score may be found on the Testing Services and Student Life Research website.

**Attendance Requirements**

Each faculty member has the prerogative of setting specific attendance requirements for classes. In some courses, active student participation is an integral part of the course, and the instructor may base a portion of the students’ grades on attendance and participation. In general, students are expected to attend class regularly. Students who miss class are responsible for finding out about the material covered, homework assignments, and any announcements or examinations.

On the 10th day of classes, students who have not attended in class will be administratively withdrawn by the instructor. Students may be administratively withdrawn from a class by the instructor for excessive absences during the semester.

**Auditing a Course**

A student who may enroll in a course but not participate in the formal assignments of the class nor receive a grade or credit. Enrollment is entered on the student’s permanent record. Criteria to receive the audit grade may be set forth by the instructor of the course. Auditing is subject to the professor’s approval and the payment of the applicable fees. Auditors may not change their registration to credit after the deadline listed in the academic calendar, which is normally the end of the registration period.

**Changes in Enrollment (Course Drop Dates)**

A student can drop a course up to the 5th day of classes through the schedule change process. Dropping a course in this time period will not result in a record of the drop on the student’s transcript. From the 6th day through the 41st day of classes, a student wishing to drop a class obtains from the course instructor a signed acknowledgement of the drop and completes the course drop process by submitting the form, to the Office of Records and Registration. Courses cannot be dropped after the 41st day of classes. The cut-off dates in this paragraph refer to the day of classes in a 15-week semester (five days=one week). In shorter semesters the cut-off dates will be adjusted proportionately. See the “Academic Calendar” for course drop dates.

**Clemency**

Any undergraduate student who has previously attended UALR or its predecessor institutions (Little Rock Junior College or Little Rock University) and whose attendance at UALR or any institution of higher education has been interrupted for a period of at least two years may qualify to request academic clemency providing he or she meets all of the criteria specified below. Under this policy a student may apply to have grades and credits earned at UALR previous to the separation removed from his or her grade point average. Approval of a request for clemency requires the signature of the student’s advisor and the provost. After reentering UALR following a separation of at least two years from any institution of higher education, a student may request academic clemency at the Office of Records and Registration.

The student shall specify the term(s) for which clemency is desired. The request will be forwarded, along with appropriate permanent record information, to the student’s advisor for approval. The advisor shall forward the request to the provost.

Clemency shall cover all credits earned during the term(s) for which clemency is requested. A student who requests and receives academic clemency is ineligible to graduate with honors. The student’s complete record will remain on the transcript with the added notation of academic clemency received.

Any petition for academic clemency must be requested and granted prior to the awarding of a degree. Once the degree is awarded, the record is closed and the academic clemency policy cannot be invoked.

Academic clemency may be approved only once. For purposes of degree requirements, a student who receives clemency must follow the provisions of the Undergraduate Catalog in effect at the time of re-enrollment.

**Course Load and Enrollment Limits**

UALR must define enrollment statuses by mandate of the U.S. Department of Education. These definitions are used to determine eligibility for financial aid and scholarships, and are used consistently throughout the campus.

- A full-time undergraduate student must be enrolled for a minimum of 12 credit hours a semester.
- A three-quarter-time undergraduate student must be enrolled in 9 to 11 hours a semester.
- A half-time undergraduate student must be enrolled in 6, 7, or 8 hours a semester.

Undergraduate summer semester enrollment hours include hours from all summer terms. The full-time, three-quarter, and half-time enrollments are the same as fall or spring semesters. Course load definitions for graduate students are different and can be found in the UALR Graduate Catalog.

A student may not enroll for more than 18 credit hours in a regular semester (Fall or Spring) or more than 7 credit hours in a five-week Summer term without prior permission of the person who approves his or her degree plan.

**Courses Taken by UALR Students at Other Colleges and Universities**

Students may choose to enroll at another regionally accredited academic institution while attending UALR. In order to assure that the credit for coursework to be taken elsewhere meets UALR degree program requirements, students should contact the Office of Transfer Support Services if the course is to count toward core requirements, and contact their major advisor if the course is to count toward major or minor requirements. This should be done prior to taking the coursework.

**Credit by Examination**

UALR offers students the opportunity to obtain credit through examination in certain courses. There are currently six sources of examination credit:

- Departmental Examination Program (DEP)
- College Level Examination Program (CLEP)
- Excelsior College Examinations (formerly Regents College and ACT-PEP)
- Advanced Placement Program (AP)
- Defense Activity for Non-Traditional Education Support (DANTES)
- International Baccalaureate (IB)

All tests conform to these general regulations:

- Students who successfully test out of a course shall receive credit hours for that course with a credit grade (CR) but no grade points.
- The examination shall be administered at least once per semester and in such a manner as to facilitate access by the student.
- Departmental tests and CLEP subject examinations are administered at UALR. Excelsior College Examinations are computer-based tests administered at Pearson VUE Testing Centers. Any prospective, currently enrolled, or continuing student may take these tests.
Students who take CLEP, AP, DANTES, IB or Excelsior College Examinations should have official score reports sent directly to the UALR Office of Testing Services for evaluation. Credit obtained through examination is recorded as approved hours on the student’s official, permanent record without grade or grade points.

Additional information may be obtained from Testing Services by calling (501) 569-3198 or at the website (ualr.edu/testing).

Developmental Courses

If a student does not meet the minimum score for eligibility in math, composition, and/or reading, that student must be enrolled in a developmental course to gain the skills necessary to be successful in those classes. The developmental courses at UALR are MATH 0321 Pre-Core Mathematics I, RHET 0310 Composition Fundamentals, and RHET 0321 Academic Literacy. UALR’s admission policy requires that all developmental courses be completed during a student’s first 42 hours of course work.

Students may not take any developmental course at UALR more than twice. A student is considered to have taken a developmental course if he or she receives a grade of NC or W for the course. Students who have failed to pass a particular developmental course twice should speak to their advisors or the department offering the course to explore other options for covering the material. A student is not considered to have taken a developmental course if he or she has been granted academic clemency since that time.

Developmental Courses and GPA

Grades from developmental courses will not be computed into a student’s official grade point average (GPA). Credit hours earned from developmental courses do not count towards the minimum required for the student’s degree.

Final Examinations

Final examinations must be taken at the time scheduled. Makeup examinations may be given to students who, because of unforeseeable circumstances involving illness, accident, or serious family emergency, were unable to take the regular examination. Such exams will be given only on the approval of the instructor and the department chairperson.

Grade Changes

All grade changes must be approved by the department chairperson under whose jurisdiction the course was taught. Forms for securing that approval are available in the departmental offices. Grades cannot be changed after a student graduates from UALR.

A final course grade may not be changed on the basis of a second final examination or additional course work undertaken or completed after a student’s final course grade has been reported by the instructor to the Office of Records and Registration.

Students at UALR have the right to appeal any grade that they feel was undeserved. The formal process through which a student can appeal a decision on a final grade is described in detail in the “Grade Appeals” section of the UALR Student Handbook, which is available in the Office of Educational and Student Services, Dean of Students, website.

Grades and Grading System

Grade reports are made available on-line to each student at the end of each semester in residence by accessing BOSS. If written confirmation is needed, contact the Office of Records and Registration.

<table>
<thead>
<tr>
<th>Permanent letter grades</th>
<th>Point Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>A – Superior work</td>
<td>4</td>
</tr>
<tr>
<td>B – Good work, above average</td>
<td>3</td>
</tr>
<tr>
<td>C – Average work</td>
<td>2</td>
</tr>
<tr>
<td>D – Passing work, below average</td>
<td>1</td>
</tr>
<tr>
<td>F – Failing work</td>
<td>0</td>
</tr>
<tr>
<td>I – Incomplete</td>
<td></td>
</tr>
<tr>
<td>CR – Credit</td>
<td></td>
</tr>
<tr>
<td>NC – No credit</td>
<td></td>
</tr>
<tr>
<td>IP – In progress (Graduate Only)</td>
<td></td>
</tr>
</tbody>
</table>

Administrative Symbols: AU-Audit MG-Missing Grade W-Withdrawal

Students may take one course each semester on a CR/NC basis with instructor approval arranged at the time of registration. The selection of courses is limited to electives. Courses in which a department requires CR/NC grading are not included in this limitation.

The designation “I,” or incomplete, is appropriate where the instructor deems that circumstances beyond the student’s control prevented timely completion of course requirements. The designation normally is given by the instructor only after consultation with the student and after the student has been informed in writing; additionally, a copy of the written notice is filed with the department chairperson regarding work to be completed and the completion date.

The work must be completed and the “I” converted by the instructor to the appropriate grade within 90 days for undergraduate courses and within one year for graduate courses from the time the “I” was recorded. Failure to do so will result in the “I” being administratively changed to an “F.”

A request to extend the deadline to complete an “I” must be completed by the instructor and forwarded to the Office of Records and Registration prior to the 90-day expiration date. The request must include a specific date by which all course work will be completed.

Graduation

Students must apply for fall, spring, or summer terms to be considered for graduation for that term. Refer to the Office of Records and Registration website for exact dates. If the student does not meet the original expected term graduation date, he or she must reapply.

To be included in the Fall or Spring Commencement Program, all fall or spring applicants must submit their application online. The application for graduation is completed by going to the secure portion of BOSS.

- Go to BOSS and log in.
- Once you log in select “Student Services” and select “Student Request Menu” to complete the online application.

Program printing deadlines will not enable the University to include the names of students submitting applications after the deadline. Please refer to BOSS for more information.

Students pursuing a double major must submit two graduation applications.

Graduation Term

In order to be awarded a degree in the term of graduation, a student must complete all requirements and obligations no later than the date grades are due as listed in the “Academic Calendar” section of this catalog. This includes but is not limited to grades of I, MG, and IP.
Students failing to meet this deadline must reapply for graduation and will be awarded their UALR degree the following term, provided all requirements have been met. **Note:** Undergraduate students are not charged a graduation fee.

In order to be awarded a degree in the term of graduation, a student must complete all requirements and obligations no later than the date grades are due as listed in the “Academic Calendar” section of this catalog. This includes but is not limited to grades of I, MG, and IP. Students failing to meet this deadline must reapply for graduation and will be awarded their UALR degree the following term, provided all requirements have been met.

**Honors**

**Chancellor’s and Dean’s List**

Names of students whose academic performances have been superior are recorded on the Chancellor’s and the Dean’s Lists. This recognition is also noted on the student’s grade report and on official transcripts. This status will be granted at the end of each semester in which the following qualifications have been met:

**Chancellor’s List**

- At least nine hours for credit with a grade of A, B, C, or CR
- At least a 3.9 grade point average for the semester
- No D, F, I, or NC grades on the semester grade report

**Dean’s List**

- At least nine hours for credit with a grade of A, B, C, or CR
- At least a 3.5 grade point average for the semester
- No D, F, I, or NC grades on the semester grade report

**Departmental Honors**

Several departments at UALR offer honors programs to exceptional students. Admission to an honors program is generally tied to the student’s grade point average and year standing and may require nomination by a faculty member. Such programs are distinct from graduation with honors; in addition to meeting and maintaining a certain grade point average, qualifying students may take a special curriculum in the major. Requirements may include advanced study, seminars, or a research project and presentation. Departmental honors are posted on the student’s academic transcript at graduation. Contact individual departments for more information.

**Graduation Honors**

Graduation honors are calculated on all academic work including all UALR credit courses, all repeated courses and all work completed at all other institutions, whether accepted as transfer credit at UALR or not.

The bachelor’s degree with honors will be conferred upon candidates who graduate and earn a minimum cumulative grade point on all courses taken (both transfer courses and credit courses at UALR) as follows:

- **Summa cum laude:** minimum grade point average of 3.90
- **Magna cum laude:** minimum grade point average of 3.70
- **Cum laude:** minimum grade point average of 3.50

A minimum of 30 hours in residence at UALR is required to qualify for a degree with honors. A student qualifies for honors based on the grade point average on all hours, including repeated courses at UALR and including transfer hours whether or not accepted for credit.

All academic work, including transfer courses and repeated courses, is included in the final calculation for honors. Some courses from institutions outside of the U.S. are calculated in the admissions process on a pass/not pass basis. In order for a student to be considered for honors, all credentials from institutions outside of the U.S. must be evaluated to determine an A, B, or C equivalency.

The associate degree with honors will be conferred upon candidates who at graduation have earned a minimum cumulative grade point on all college work (both transfer and residence credit) of 3.70. The recipient must have met all requirements for graduation with an associate degree and must not have completed more than 83 credit hours. A UALR student can be awarded graduation honors only once. Students who graduate from another college or university and pursue a second undergraduate degree at UALR are not eligible for honors. University and departmental honors (but not awards) may be posted on the academic transcript.

**Repeated Courses**

If an undergraduate student repeats a course for credit, only the last grade will be computed into the cumulative grade point average. (The earlier grade will remain on the transcript with an “E” indicating exclusion from the grade point average.)

If there have been any changes in course numbers or titles, the student must first obtain the approval of the chairperson of the department offering the course to be assured it is an identical course.

All grades for repeated courses are included in calculations for graduation honors. Once a degree has been awarded, repeated courses will not be accepted.

**Student Classifications**

**Level**

- **Freshman:** a student who has satisfactorily completed fewer than 30 credit hours.
- **Sophomore:** a student who has satisfactorily completed at least 30 credit hours and fewer than 60 credit hours.
- **Junior:** a student who has satisfactorily completed at least 60 credit hours and fewer than 90 credit hours.
- **Senior:** a student who has satisfactorily completed at least 90 credit hours.

**Status**

- **Regular:** a student who is admitted as a degree candidate.
- **Temporary:** a student who is admitted as non-degree seeking. See “Admissions” page for additional classifications.
- **Transient:** a student who is admitted for one semester or summer and who is in good standing at his or her primary institution.
- **Post-baccalaureate:** a student who has already earned a baccalaureate degree and is enrolled in undergraduate work for credit.

**Suspension (from UALR)**

Suspension occurs after the third successive semester of academic probation. Students who have finished their academic suspension are required to contact the Office of Records and Registration. These students will be placed on academic probation, limited to 13 credit hours per semester while on probation, and placed in a single semester probation status. This status requires that the student achieve a current term GPA of 2.0 or greater each term until the student’s cumulative GPA is 2.0 or higher.

Failure to achieve a term GPA of 2.0 or greater while in a single semester probationary status will result in academic suspension for two full semesters.
Students admitted with academic deficiencies will be limited to a maximum of 13 credit hours each semester. When such a student achieves a current term and cumulative GPA of 2.0 the limitation in hours is removed. If the student fails to obtain the required current term or cumulative GPA then the student is placed on academic probation. Such students will not be subject to academic suspension until the end of the third semester unless they were admitted on a single semester contract basis. A student suspended from UALR who earns academic credit from another accredited college or university during the period of suspension may receive credit for the course at UALR when readmitted if the course is transferable.

**Suspension (from an institution other than UALR)**
A student under first academic suspension from an accredited college or university may be admitted to UALR and allowed to enroll in probationary status. The student may enroll for a maximum of 7 hours and must attain a cumulative GPA of at least 2.0. Failure to attain the minimum 2.0 GPA in the first semester will result in suspension from UALR.

**Student Email**
Student email accounts are created within 24 hours of class registration and are an official means of communication between the University and the student. Important University-related information will be sent to individual email accounts. Students are responsible for regularly reading email messages. Types of communication include but are not limited to: financial aid information, inclement weather closings, e-bills and payment deadlines, registration information, and library notices. The UALR email system can be accessed through your MyUALR portal or at my.ualr.edu/.

**Transcripts**
Transcript requests require three days of processing regardless of how you submit your request.
You can submit a signed transcript request in one of the following ways:

1. **Online**
   - Log into your BOSS account
   - Read through the Important Dates page and click the Click here to continue… link
   - Select Student Services
   - Select Student Records
   - Select Request an Official Academic Transcript
   - Follow the onscreen instructions to order your transcript. You cannot request that a transcript be held until a degree is awarded using this method.

2. **By mail**:
   - University of Arkansas at Little Rock
   - Attn: Office of Records and Registration
   - 2801 South University Avenue
   - Little Rock, AR 72204-1099
   - By fax: (501) 569-8168
   - By email: records@ualr.edu
   - (Form must be signed and attached to email)

3. **In person** by visiting Student Services Center 218
Choosing a major makes students’ academic goals more specific and maximizes their chances of graduating on time and without unneeded courses and extra expenses. Students who are currently undecided on a major should explore their options with their advisor in the Office of Undergraduate Academic Advising in the Student Service Center, room 320, (501) 569-3386.

To declare a major for the first time, change a major, or explore a particular major in more detail, students should make an appointment with an advisor in the department that offers the major. The major advisor will also help in the selection of a minor if one is required or desired. Contact information program advisors is at ualr.edu/advising/major/

Below, we have provided a chart that will help match your own assessment of your interests and skills with the programs we have available. Then, you may view all majors organized by UALR by college and department or by type of degree. These lists will give you an idea of where to go in the catalog or online to find more information.

<table>
<thead>
<tr>
<th>If you like…</th>
<th>+</th>
<th>If you are good at…</th>
<th>=</th>
<th>Look at the majors offered in the College of…</th>
</tr>
</thead>
<tbody>
<tr>
<td>to examine the role that humans play in the development of the world</td>
<td>+</td>
<td>writing effectively</td>
<td>=</td>
<td>ARTS, HUMANITIES, AND SOCIAL SCIENCES</td>
</tr>
<tr>
<td>to look at the ways that art and culture have influenced history</td>
<td></td>
<td>art (writing, theatre, dance, music, painting, drawing, design)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>language, art, history, literature, music, theatre, dance</td>
<td></td>
<td>thinking outside of the box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to study human behavior</td>
<td></td>
<td>appreciating global and historical perspectives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to improve society</td>
<td></td>
<td>observing people</td>
<td></td>
<td></td>
</tr>
<tr>
<td>study/perform research</td>
<td></td>
<td>being objective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>taking an interest in people</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fundamentals of the business world</td>
<td>+</td>
<td>analyzing real-world problems</td>
<td>=</td>
<td>BUSINESS</td>
</tr>
<tr>
<td>working with numbers</td>
<td></td>
<td>thinking outside of the box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>analyze information</td>
<td></td>
<td>working well as part of a team</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to be the boss</td>
<td></td>
<td>being self-motivated and disciplined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>working with children and/or young people</td>
<td>+</td>
<td>organizing</td>
<td>=</td>
<td>EDUCATION</td>
</tr>
<tr>
<td>to be enthusiastic and creative</td>
<td></td>
<td>being patient</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to motivate</td>
<td></td>
<td>communicating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to engage in learning</td>
<td></td>
<td>leading</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to solve practical problems</td>
<td>+</td>
<td>being innovative</td>
<td>=</td>
<td>ENGINEERING AND INFORMATION TECHNOLOGY</td>
</tr>
<tr>
<td>to think logically</td>
<td></td>
<td>math and science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to work with your hands</td>
<td></td>
<td>working well as part of a team</td>
<td></td>
<td></td>
</tr>
<tr>
<td>new technology</td>
<td></td>
<td>coming up with solutions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to follow the rules</td>
<td>+</td>
<td>making decisions</td>
<td>=</td>
<td>PROFESSIONAL STUDIES</td>
</tr>
<tr>
<td>to be fair-minded</td>
<td></td>
<td>working well as part of a team</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to serve your community</td>
<td></td>
<td>communicating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to solve problems</td>
<td></td>
<td>being aware of your surroundings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to work in mass media</td>
<td></td>
<td>public speaking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>public speaking</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>to study math and science</td>
<td>+</td>
<td>logic and organization</td>
<td>=</td>
<td>SCIENCE AND MATHEMATICS</td>
</tr>
<tr>
<td>to solve problems</td>
<td></td>
<td>following a specific process</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to know why</td>
<td></td>
<td>observing things</td>
<td></td>
<td></td>
</tr>
<tr>
<td>the world around you</td>
<td></td>
<td>working well independently</td>
<td></td>
<td></td>
</tr>
<tr>
<td>to take care of people</td>
<td></td>
<td>maintaining a positive attitude</td>
<td></td>
<td></td>
</tr>
<tr>
<td>how science relates to people</td>
<td></td>
<td>personal health and wellness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a hospital/health care setting</td>
<td></td>
<td>communicating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>details</td>
<td></td>
<td>working well as part of a team</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Degree Plan

After you have declared a major and minor (if a minor is required by your major), your advisor will draw up a degree plan. The plan indicates, as of a given date, the hours completed, course substitutions, waivers allowed, courses still needed, and other requirements for the degree. Your advisor will track subsequent progress through the degree plan using the degree audit feature in BOSS.

Graduation Agreement Program (GAP)

ACT 1014

ACT 1014 of the 2005 Arkansas Legislature gives first-time entering college freshman (students who have never taken courses at any university before) the option of signing a contract with UALR guaranteeing graduation in 8 semesters of planned, closely supervised study.

A student entering UALR under the graduation agreement program (GAP) must:
- Enter in the fall semester as a first-time entering freshman
- Submit all required admission credentials so that they are received at UALR no later than July 15
- Sign a degree program contract in consultation with assigned advisor(s) no later than August 1. Register for first fall semester no later than August 8.

To remain in good standing a GAP student is required to:
- Enroll at UALR in each fall and spring semester for four consecutive years.
- Fulfill all degree program contract requirements at UALR without dropping courses specified on the degree program contract.

Eligible Degree Programs:

Please note that ACT 1014 is only one of many paths to successful completion of a college degree. Choosing to waive participation in ACT 1014 will not effect your chance for a successful college career.

When choosing to participate in the ACT 1014 guaranteed 8-semester degree completion program, a student accepts responsibility for monitoring his or her progress toward a degree and for making choices, in consultation with an ACT 1014 compliance advisor, that will lead to graduation in 8 semesters.

Failure to meet any of these conditions will require that a student waive participation in the ACT 1014 program. If you know that you will not or cannot fulfill these eligibility requirements, you must waive participation in the ACT 1014 program now, or you will be required to waive participation at the time of your first advisement session. Once your ACT 1014 option is waived, this one-time decision is final.

Please be advised that your continued participation in the ACT 1014 program requires many responsibilities on your part, including your agreement to:
1. Follow exactly the 8-semester degree plan for the intended major and minor degree program as outlined in the degree program contract, including taking the number of hours (full-time or more) specified by the contract;
2. Never change the major, minor, concentrations, or emphasis of your degree program after your ACT 1014 contract is signed;
3. Meet all program requirements semester to semester as detailed in your degree plan and never be placed on academic probation or suspension for any semester of enrollment;
4. Have your class schedule approved by your official ACT 1014 departmental advisor and register for classes each semester during the early registration period;
5. Accept any available course section that can be accommodated in your class schedule, or notify your official ACT 1014 advisor in writing that a contract variation or adjustment will be required before the first day of classes;
6. Enroll continuously (cannot skip enrollment in a semester for any reason) and complete at least 30-36 semester credit hours of approved course work each academic year as outlined in your degree plan contract.

Other events based on your actions that may void the guarantee include the dropping or failure of a course, withdrawal (for any reason) from the university, non-payment of tuition or fees, and disciplinary actions. Failure to meet any of the above conditions means that a student has voided his or her ACT 1014 program agreement, and will be excluded from further participation in the ACT 1014 degree guarantee. If you know that you will not or cannot fulfill these program responsibilities, you may waive participation in the ACT 1014 program now, or you will be required to void further participation at the time of the first advisement session after a responsibility has been voided. Once your ACT 1014 option is voided, the decision is final.

For more information about ACT 1014, visit:
ualr.edu/advisingcentral/index.php/home/gap/

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1 Students who have taken UALR courses while enrolled simultaneously in high school courses or who have taken Advanced Placement (AP) courses for college credit (and will have submitted AP test scores to UALR for credit by July 15) may enroll as first-time freshman and be eligible to accept or waive participation in ACT 1014.
The following checklist indicates the steps that students new to UALR must take to begin their journey at UALR.

- **APPLY for Admission:** Complete an application for admission and submit the $40 non-refundable application fee at apply.ualr.edu.
- **SUBMIT Required Documents:** Submit Official Copies of the following to complete your application:
  1. Freshmen and freshmen transfers (those with less than 12 transferable college credit hours) should request that an official high school transcript or GED scores be sent to the Office of Admissions. Only official transcripts will be accepted, and must be submitted in a sealed, stamped envelope or sent via electronic data interchange from the high school.
  2. Freshmen and freshmen transfers may need to request official ACT or SAT scores from the testing agency (UALR ACT Code 0132; UALR SAT code 6368) if the official high school transcript does not include scores and s/he did not indicate UALR as a score recipient at the time of testing. ACT, SAT, or COMPASS scores must be from tests taken within the last five years. Students have the option of taking the COMPASS test available through UALR Testing Services.
  3. All college transcripts should be sent to the Office of Admissions. Only official transcripts will be accepted, and must be submitted in a sealed, stamped envelope or sent via electronic data interchange from the previous institution. Students may submit an “In Progress” transcript from the institution at which s/he is currently enrolled for admission purposes, but will still be required to submit a final, official transcript. Freshmen who completed high school concurrent credit at an institution other than UALR should submit an official college transcript.
  5. Students whose native language is not English must provide proof of English language proficiency. See the section entitled “Non-Native English Language Requirement.”
- **Transfer Students.** Students should submit any college transcripts to the Office of Undergraduate Admissions.
- **Military Students.** Students should submit military transcripts, in addition to all other college transcripts, to the Office of Undergraduate Admissions. Once notified of the receipt of military transcript, our Military Ombudsman, Kathy Oliverio, will evaluate the transcript for possible awarding of academic credit. Call (501) 569-3204 or email kmoliverio@ualr.edu for more information.
- **International Students.** Students should first contact the Office of International Services at (501) 683-7566. The Office verifies and posts international transfer credits to the student’s file, which is then forwarded to the Office of Transfer Student Services where evaluation of transfer credits towards core curriculum requirements in the student’s academic major will be applied.
  NOTE: Although you may be provisionally admitted for admission, until your admission requirements are complete, UALR cannot accurately evaluate your transfer hours, advise you, or guarantee registration in degree appropriate courses. Also, to receive financial aid your (a) admission requirements and (b) financial aid requirements must be complete.
- **APPLY for Housing:** First year entering freshman must live on campus. Check on the Housing website at ualr.edu/housing for further information.
- **APPLY for Scholarships & Financial Aid:** Information concerning scholarships and financial aid is covered in depth starting in the following pages. You may also visit the Office of Admissions and Financial Aid website at ualr.edu/admissions.
  - **Federal Financial Aid.** If you have not already done so, apply for federal aid online at www.fafsa.ed.gov. You must fill out the FAFSA form before applying for any state scholarships.
  - **State Scholarships.** Click on the “Universal” scholarship link at www.ark.org/adhe_financialaid/Login.aspx. This will calculate what state scholarships and financial aid you are entitled to receive.
  - **Transfer Scholarships.** The Shelby Breedlove Transfer Scholarship is for students who will have completed at least 60 hours at an accredited Arkansas community college with a cumulative GPA of 3.25 or higher. Applications must be received by February 1 for fall semester transfers.
  - **UALR Private Scholarships.** The deadline for private scholarships is March 1. For additional information about UALR’s private scholarship listing, go to ualr.edu/scholarships/private.
  - **GI Bill.** Active duty or military veterans who are entitled to the GI Bill should contact our Veterans Affairs Office at (501) 569-8171 or email vavets@ualr.edu.
- **FOLLOW UP on Your Application:** Once your admissions application is received, it will be reviewed. Within 3-5 business days, you will receive a letter identifying additional items you need to submit to complete your application. Your application must be complete before you will be fully admitted to the University and before you can receive financial aid.
- **ATTEND New Student Orientation:** Attendance at New Student Orientation is mandatory. You’ll need your student ID number (Trojan or T-number) and PIN in order to register for orientation. If you are not sure of your ID number or PIN, email the Office of Undergraduate Admissions at admissions@ualr.edu or call (501) 569-3127. For more information about orientation, contact the Office of Campus Life at (501) 569-3308 or visit ualr.edu/orientation.
- **GET Academically Advised:** Once you are admitted to the University, you need to be advised as to which classes you need to take. (See the “Academic Advising” section for further details.) In this personalized conversation an advisor will review you academic credentials, engage you in academic planning and assist you in course selection.
  **IF Undeclared:** Contact Undergraduate Academic Advising at (501) 569-3386. Pulaski Technical College students can contact the PTC Campus Advising Center, Room 318 or call (501) 812-2821.
  **Declared Majors.** Contact your appropriate department to get advised. The college/department is dictated by your major. See the list of “Degrees by Major” or online at ualr.edu/academics.
- **REGISTER for Classes:** Once advised, go to BOSS and register for classes.
Academic Advising

Advising is mandatory for all students each semester and must be done well in advance of published registration dates. Provisional and temporary students are not eligible for academic advisement until all required admission credentials are submitted and evaluated by the Office of Records and Registration. After this evaluation has occurred, academic advising will be required each semester. Where students are advised depends on their status:

• Undeclared majors are advised in the Office of Undergraduate Academic Advising including entering freshman who need developmental reading/composition, will be in the Collegiate Success Program.

• Declared a majors are advised in the department offering the major. Students may find their major at ualr.edu/advising/home/major/findmyadvisor/.

First-Year Colloquium

Leaving high school behind to attend college at UALR is an exciting transition. To assist students in that transition, all full-time freshmen entering a college or university for the first time and transfer students with less than 12 hours of credit are required to take a First Year Colloquium. Several versions of the colloquium are available, but all carry full academic credit and are designed to help put students on a path to success at UALR. Planning for graduation begins on day one!

All versions of the First Year Colloquium are small in size and require students to learn about and use campus and off-campus resources (libraries, career planning and counseling services, tutoring, etc.) and strategies for goal-setting and time management. Some versions include a service-learning project that applies academic learning to real-life situations.

Which course to take? Some specialized first-year colloquiums are aimed at students intending to major in particular subject areas. The table below indicates the appropriate colloquium for such students. Students intending to major in a subject area that is not singled out in the table should register for PEAW 1300, the first course in the table.

All students should consult with their academic advisor before registering for a first year colloquium. A few colloquiums are limited to students in other targeted special programs and those receiving particular scholarships. Such students will be advised through those programs and scholarships as to the appropriate colloquium for which they should register. Intended for Declared Major Course

<table>
<thead>
<tr>
<th>INTENDED FOR DECLARED MAJOR</th>
<th>COURSE NUMBER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>All majors</td>
<td></td>
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</tr>
<tr>
<td>Business (Economics, marketing, finance, or management)</td>
<td>BSAD 1100</td>
<td>Discovering Business</td>
</tr>
<tr>
<td>Chancellor’s Leadership Corps</td>
<td>PEAW 1124</td>
<td>Practicum: Leadership Training</td>
</tr>
<tr>
<td>Computer Science</td>
<td>CPSC 1105</td>
<td>First Year Experience for CPSC Majors</td>
</tr>
<tr>
<td>Construction Management and Construction Engineering</td>
<td>CNMG 1101</td>
<td>First Year Colloquium in Construction Mgmt. &amp; Eng.</td>
</tr>
<tr>
<td>Donaghey Scholars</td>
<td>SCHL 1101</td>
<td>Scholars Colloquium</td>
</tr>
<tr>
<td>Education (Teacher ed-early &amp; middle childhood and secondary ed)</td>
<td>TCED 1100</td>
<td>Intro Teaching/Learning</td>
</tr>
<tr>
<td>Engineering Technology/Computer</td>
<td>ECET 1302</td>
<td>Freshman Yr Experience Tech/ Computer</td>
</tr>
<tr>
<td>History</td>
<td>HIST 1314</td>
<td>First-Year Colloquium</td>
</tr>
<tr>
<td>Information Science</td>
<td>IFSC 1105</td>
<td>First Year Experience for IFSC Majors</td>
</tr>
<tr>
<td>Math and Science (UTeach)</td>
<td>IGSC 1101 or SCED 1101</td>
<td>Step 1: Inquiry Teaching FYC</td>
</tr>
<tr>
<td>Systems Engineering</td>
<td>SYEN 1210</td>
<td>Intro to Systems Engineering</td>
</tr>
<tr>
<td>University Science Scholars</td>
<td>BIOL/CHEM/ERSC 1305</td>
<td>University Science Scholars</td>
</tr>
</tbody>
</table>

Courses in Personal Awareness (PEAW)

The Division Chief of the Office of Undergraduate Academic Advising oversees courses in Personal Awareness. The PEAW 1300 course described below can be taken to meet the First-Year Colloquium requirement.

PEAW 1300 The First Year Experience

Helps students reach their educational objectives. Interactive instructional methods promote the development of critical thinking skills and positive educational values. Students 1) complete a personal assessment to enhance their understanding of communication and learning styles, lifestyle risks, and loci of control; 2) learn to identify and use appropriate resources both on campus and within the community; 3) acquire skills needed to promote study, personal wellness, goal setting and achievement; 4) develop strategies to manage money, time and stress wisely; and 5) participate in a service learning experience outside the classroom in a setting designed to foster community service. Final course grades are A, B, C, and no credit (NC). Three credit hours.

PEAW 1190 Career Planning and Life Options

A systematic approach to developing decision-making skills and an orientation to the world of work. The focal point of the course is the student and his or her goals. Emphasis is on clarifying and formulating realistic career goals and an appropriate career plan and strategy to achieve these goals. Final course grade is credit (CR)/no-credit (NC). One credit hour.

PEAW 1310 Library Research and Resources

Basic techniques for using the library effectively. Use of information resources, including on-line catalog, computerized databases, bibliographies, and indexes. Attention to students’ individual subject needs. Three credit hours.

PEAW 1124, 2124, 3124, 4124 Practicum: Leadership Training

Designed to recognize and enhance the development of student leaders through an orientation to campus and community resources and through participation in service projects and social activities. Enrollment is restricted to students participating in official university leadership groups. Final course grade is credit (CR)/no-credit. One credit hour (NC).
Undergraduate Programs

Associate of Arts (A.A.)
General Studies

Associate of Science (A.S.)
American Sign Language Studies
Computer Programming
Engineering Technology (Electrical)
Engineering Technology (Mechanical)
Law Enforcement

Associate of Applied Science (A.A.S.)
Nursing

Bachelor of Arts (B.A.)
Anthropology
Art
Chemistry
Criminal Justice
English
History
Interdisciplinary Studies
International Studies
Interpretation: American Sign Language/English
Mass Communication
Mathematics
Music
Philosophy
Physics
Political Science
Professional and Technical Writing
Psychology
Sociology
Speech Communication
Theatre Arts
World Languages

Bachelor of Business Administration (B.B.A.)
Accounting
Economics
Finance
General Business
International Business
Management
Management Information Systems
Marketing

Bachelor of Fine Arts (B.F.A.)
Art
Dance Performance

Bachelor of Music (B.M.)
Music Education
Performance

Bachelor of Science (B.S.)
Architectural & Construction Engineering
Biology
Chemistry
Civil and Construction Engineering
Communication Sciences and Disorders
Computer Science
Construction Management
E-Commerce
Electronics and Computer Engineering
Technology
Engineering Technology (Mechanical)
Environmental Health Sciences
Geology

Health, Human Performance and Sport
Management
Information Science
Mathematics
Physics
Systems Engineering

Bachelor of Science in Education (B.S.E.)
Early Childhood Education
Middle Childhood Education

Bachelor of Science in Nursing (B.S.N.)
Nursing Completion Program

Bachelor of Social Work (B.S.W.)
Certificate Programs
Accounting
Electronic Journalism
Media Production and Design
Professional Sales
Service Learning Scholars
Shepherd Program in Poverty Studies
Certificate

Graduate Programs

Graduate Certificates
Accountancy
Applied Statistics
Building Level Administration
Conflict Mediation
Curriculum/Program Administration and Supervision
Geospatial Technology
Gerontology
Gifted Education
Information Quality
Information Systems Leadership
Literacy Intervention Specialist
Management
Management Information Systems
Marriage and Family Therapy
Mathematics Education
Nonprofit Management
Orientation and Mobility of the Blind
Public Service
Reading/Literacy Coach
Rehabilitation Counseling
Secondary Education
Strategic Communication
Superintendency
Systems Engineering
Taxation
Teaching Advanced Placement
Technology Innovation

Master of Accountancy (M.Acc.)

Master of Arts (M.A.)
Applied Communicative Studies
Art
Biology
Chemistry
Criminal Justice
Gerontology
Higher Education
Interdisciplinary Studies
Journalism
Professional and Technical Writing
Public History
Rehabilitation Counseling
Rehabilitation of the Blind
Second Languages

Master of Business Administration (M.B.A.)

Master of Education (M.Ed.)
Adult Education
Counselor Education
Curriculum & Instruction
Early Childhood Education
Educational Administration
Learning Systems Technology
Middle Childhood Education
Reading
Secondary Education
Special Education
Teaching Gifted and Talented

Master of Public Administration (M.P.A.)

Master of Public Service (M.P.S.)

Master of Science (M.S.)

Master of Social Work (M.S.W.)
Education Specialist (Ed.S.)
Educational Administration
Reading

Juris Doctor in Law (J.D.)

Juris Doctor in Law/Public Service (J.D. – with Clinton School)

Doctor of Audiology (Au.D. – with UAMS)

Doctor of Education (Ed.D.)
Educational Administration
Higher Education

Doctor of Philosophy (Ph.D.)

Applied Sciences
Bioinformatics
Communication Sciences and Disorders (with UAMS and UCA consortium)
Criminal Justice
Engineering and Science Systems
Integrated Computing
Reading
## Majors By College

<table>
<thead>
<tr>
<th>College</th>
<th>Department of</th>
<th>Undergraduate Degrees Offered</th>
</tr>
</thead>
</table>
| College of Arts, Humanities, & Social Sciences | Art                                | • Bachelor of Arts in Art (Emphasis in Studio Art or Art History)  
• Bachelor of Fine Arts in Art |
|                                        | English                            | • Bachelor of Arts in English                                                                  |
|                                        | History                            | • Bachelor of Arts in History                                                                  |
|                                        | International & Second Language Studies | • Bachelor of Arts in World Languages: French and Spanish Studies                             |
|                                        | Music                              | • Bachelor of Arts in Music  
• Bachelor of Music in Music Education  
• Bachelor of Music in Performance |
|                                        | Philosophy & Interdisciplinary Studies | • Bachelor of Arts in Interdisciplinary Studies  
• Bachelor of Arts in Philosophy |
|                                        | Political Science                  | • Bachelor of Arts in Political Science  
• Bachelor of Arts in International Studies |
|                                        | Psychology                         | • Bachelor of Arts in Psychology                                                               |
|                                        | Rhetoric & Writing                 | • Bachelor of Arts in Professional and Technical Writing                                       |
|                                        | Sociology & Anthropology           | • Bachelor of Arts in Anthropology  
• Bachelor of Arts in Sociology                                                             |
|                                        | Theatre Arts & Dance               | • Bachelor of Fine Arts in Dance Performance  
• Bachelor of Arts in Theatre Arts                                                        |
| College of Business                    | Accounting                         | • Bachelor of Business Administration in International Business                                |
|                                        | Business Information Systems       | • Bachelor of Business Administration in Accounting                                             |
|                                        | Economics & Finance                | • Bachelor of Business Administration in Economics                                               |
|                                        | Management                         | • Bachelor of Business Administration in Management                                               |
|                                        | Marketing & Advertising            | • Bachelor of Business Administration in Management Information Systems                         |
| College of Education                  | Counseling, Adult, & Rehabilitation Education | • Associate of Science in American Sign Language Studies  
• Bachelor of Arts in Interpretation: ASL/English                                              |
<p>|                                        | Educational Leadership             | • Upper-level courses offered, no undergraduate degree program                                |</p>
<table>
<thead>
<tr>
<th>College</th>
<th>Department of</th>
<th>Undergraduate Degrees Offered</th>
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</thead>
<tbody>
<tr>
<td>College of Education</td>
<td>Teacher Education</td>
<td>• Bachelor of Science in Education in Early Childhood Education</td>
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<tr>
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<td></td>
<td>• Bachelor of Science in Education Middle Childhood Education</td>
</tr>
<tr>
<td>College of Professional Studies</td>
<td>Audiology &amp; Speech Pathology</td>
<td>• Bachelor of Science in Communication Sciences and Disorders</td>
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<td></td>
<td>Criminal Justice</td>
<td>• Associate of Science in Law Enforcement</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Arts in Criminal Justice</td>
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<tr>
<td></td>
<td>School of Mass Communication</td>
<td>• Bachelor of Arts in Mass Communication</td>
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<tr>
<td></td>
<td>Public Administration</td>
<td>• Upper-level courses offered, no undergraduate degree program</td>
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<tr>
<td></td>
<td>School of Social Work</td>
<td>• Bachelor of Social Work</td>
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<tr>
<td></td>
<td>Speech Communication</td>
<td>• Bachelor of Arts in Speech Communication</td>
</tr>
<tr>
<td>College of Science</td>
<td>Applied Science</td>
<td>• Upper-level courses offered, no undergraduate degree program</td>
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<tr>
<td></td>
<td>Biology</td>
<td>• Bachelor of Science in Biology</td>
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<td></td>
<td></td>
<td>• Bachelor of Science in Environmental Health Sciences</td>
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<tr>
<td></td>
<td>Chemistry</td>
<td>• Bachelor of Arts in Chemistry</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Chemistry</td>
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<tr>
<td></td>
<td>Earth Sciences</td>
<td>• Bachelor of Science in Geology</td>
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<tr>
<td></td>
<td>Health, Human Performance &amp; Sport</td>
<td>• Bachelor of Science in Health, Human Performance and Sport Management</td>
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<td></td>
<td>Management</td>
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<td></td>
<td>Mathematics &amp; Statistics</td>
<td>• Bachelor of Arts in Mathematics</td>
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<td></td>
<td>• Bachelor of Science in Mathematics</td>
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<tr>
<td></td>
<td>Nursing</td>
<td>• Associate of Applied Science in Nursing</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Nursing</td>
</tr>
<tr>
<td></td>
<td>Physics &amp; Astronomy</td>
<td>• Bachelor of Arts in Physics</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Physics</td>
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<tr>
<td>Donaghey College of Engineering &amp; Information Technology</td>
<td>Computer Science</td>
<td>• Associate of Science in Computer Programming</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Computer Science (GAME Option)</td>
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<tr>
<td></td>
<td>Construction Management and Civil and</td>
<td>• Bachelor of Science in Architectural and Construction Engineering</td>
</tr>
<tr>
<td></td>
<td>Construction Engineering</td>
<td>• Bachelor of Science in Civil and Construction Engineering</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Construction Management</td>
</tr>
<tr>
<td>College</td>
<td>Department of</td>
<td>Undergraduate Degrees Offered</td>
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<tr>
<td>Donaghey College of Engineering &amp; Information Technology</td>
<td>Engineering Technology</td>
<td>• Associate of Science in Engineering Technology (Electronics)</td>
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<td></td>
<td>• Associate of Science in Engineering Technology (Mechanical)</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Electronics and Computer Engineering Technology</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Engineering Technology (Mechanical)</td>
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<tr>
<td></td>
<td>Information Science</td>
<td>• Bachelor of Science in E-Commerce</td>
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<tr>
<td></td>
<td></td>
<td>• Bachelor of Science in Information Science</td>
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<tr>
<td></td>
<td>Systems Engineering</td>
<td>• Bachelor of Science in Systems Engineering</td>
</tr>
<tr>
<td>University College</td>
<td></td>
<td>• Associate of Arts in General Studies</td>
</tr>
</tbody>
</table>
General Policies

Equal Access for Students with Disabilities

It is the policy of the University of Arkansas at Little Rock to create inclusive learning environments. If there are aspects of the instruction or design of a course that result in barriers to your inclusion or to accurate assessment of achievement—such as time-limited exams, inaccessible web content, or the use of non-captioned videos—please notify the instructor as soon as possible. Students are also welcome to contact the Disability Resource Center (DRC), telephone (501) 569-3143 (v/tty). For more information, visit the DRC website.

Family Educational Rights and Privacy Act (FERPA)

Students at the University of Arkansas at Little Rock have certain rights with regard to their educational records as stipulated by the Family Educational Rights and Privacy Act (FERPA). Students should consult the UALR Student Handbook for the delineation of those rights.

HIV

In support of its mission to discover and disseminate knowledge and to promote humane sensitivities and understanding of interdependence, the University of Arkansas at Little Rock endorses the following policy for responding to Human Immunodeficiency Virus (HIV) infection.

Based on conclusive evidence from the U.S. Public Health Services and Centers for Disease Control and Prevention, people living with HIV infection pose no threat of transmission through casual contact to those who are not infected. Because many people are infected and don’t know it, the University accepts an inclusive approach that recognizes any individual could be HIV positive. No screening or inquiries regarding HIV status will be made for admission or employment.

Access

People with HIV/AIDS are protected from discrimination by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. Appropriate, reasonable accommodations will be made for students and employees who are infected and they will be accorded all rights of access and responsibilities in every aspect of University life as available to not infected persons. Acts of discrimination or abuse will not be tolerated. Confidentiality will be observed.

Prevention and Education

The University will provide ongoing training for students and employees that includes the following:

- Facts about infection, transmission, prevention, testing sites, and disclosure
- Skill development and equipment for self protection
- A climate that fosters care and respect for self and others

For information about educational programs contact the Offices of Health Services or Human Resource Services.

Support Services

The Health Services Office is the primary point of confidential contact for people living with HIV and will serve as a resource to the campus community regarding HIV issues on campus.

Support services and referrals are also available in the following offices: Counseling and Career Planning Services, Disability Resource Center, and the Arkansas Employee Assistance Program.

Policy Implementation and Review

The University Health and Wellness Committee will be responsible for implementation of this policy. They will review this policy semi-annually or as scientific information emerges and submit revisions to the University Assembly for approval. (Adopted by the Faculty Senate, 4/19/96)

Name Changes

U.S. Citizens

In order to comply with a number of government agency reporting requirements, the University must record each student’s name as it appears on his/her social security card. Students who need to change their names on UALR records must complete a name change form (available at the Office of Records and Registration) and present a social security card and picture identification when submitting the form. After the change is implemented, the name on the UALR transcript, diploma, and other documents will read as printed on the social security card. If the social security card is incorrect, students must change their records with the Social Security Administration Office first. No changes will be made to the UALR record until a new Social Security Card is issued and presented to the Office of Records and Registration.

International students

International students who need to change their names on UALR records should consult with the Director of Records and Registration, who will specify appropriate documentation.
**Nondiscrimination**

UALR adheres to a policy that enables all individuals, regardless of race, color, gender, national origin, age, religion, sexual orientation, veteran’s status, or disability, to work and study in an environment unfettered by discriminatory behavior or acts. Harassment of an individual or group will not be condoned, and any person (student, faculty, or staff member) who violates this Policy will be subject to disciplinary action.

Harassment that is considered discriminatory includes actions or conduct (verbal, graphic, gestural, or written) directed against any person or group with the intent to demean or create a hostile or threatening environment. It is not the intent of this Policy to infringe upon or limit educational, scholarly, or artistic expression. Any person who believes he or she has been discriminated against should contact the Office of Human Resources to obtain assistance and information concerning the filing of complaints, (501) 569-3180.

At the same time the university prohibits discriminatory practices, it promotes equal opportunity through affirmative action. Non discriminatory affirmative action equal opportunity policies apply to recruitment, hiring, job classification and placement, work conditions, promotional opportunities, demotions / transfers, terminations, training, compensation, choice of contractors and suppliers of goods and services, educational opportunities, disciplinary action, recreational and social activities, use of facilities, housing and university-sponsored programs.

**Prohibiting Sexual Harassment**

It is the policy of the University of Arkansas at Little Rock to prohibit sexual harassment of its students, faculty, and staff.

Incidents of sexual harassment are demeaning to all persons involved and impair the ability of the institution to perform its educational functions.

Sexual harassment of employees is prohibited under Title VII of the Civil Rights Act of 1964, and sexual harassment of students may constitute discrimination under Title IX of the Education Amendments of 1972. Sexual harassment of employees is defined by the Equal Employment Opportunity Commission to include unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct which takes place when: submission to the conduct is either explicitly or implicitly a term or condition of an individual’s employment; submission to or rejection of such conduct by an individual is used as the basis for employment decisions affecting that individual; or such conduct has the purpose or effect of unreasonably interfering with an individual's work performance or creating an intimidating, hostile, or offensive working environment.

Sexual harassment of students includes unwelcome sexual advances, requests for sexual favors, other verbal or physical conduct which take place when: submission to the conduct is either explicitly or implicitly a term or condition of an individual’s academic status or advancement; submission to or rejection of such conduct by an individual is used as the basis for academic decisions affecting that individual; or such conduct has the purpose or effect of unreasonably interfering with an individual’s academic performance or creating an intimidating, hostile, or offensive learning environment. Employees and students who believe that they have been subjected to sexual harassment are encouraged to report the problem.

University grievance procedures are available to individuals who wish to pursue complaints of sexual harassment. Informal complaints should be made to an ombudsman for sexual harassment. The goal of the informal process is to resolve problems. No disciplinary action will be taken as a result of the informal complaint procedure. Formal complaints against faculty, staff and administration should be submitted to the Office of Human Resources. Both formal and informal complaints should be made within 30 calendar days of the most recent alleged discriminatory act.

**Sexual Assault**

(UALR’s complete policy on sexual assault appears in the UALR Student Handbook and the policy website-ualr.edu/policy.)

The University of Arkansas at Little Rock explicitly condemns sexual assault as a violation of an individual’s human rights and dignity. Sexual assault is generally defined as attempted or actual unwanted sexual activity. The policy of UALR is that members of the University community neither commit nor condone sexual assault in any form. This prohibition applies equally to male and female staff, faculty and students, to all other persons on premises subject to University control, and to those engaged to further the interests of the University.

Sexual assault is unlawful and may subject those who engage in it to civil and criminal penalties. A student or employee of UALR charged with sexual assault can be prosecuted under Arkansas criminal statutes and/or disciplined by the University. Even if criminal prosecution is not pursued, the University can pursue disciplinary action. Where there is probable cause to believe that the campus regulations prohibiting sexual assault have been violated, the campus will pursue strong disciplinary action through its own internal judicial channels. This discipline includes, but is not limited to, the possibility of termination, expulsion, suspension, disciplinary probation, counseling, mediation, educational sanctions, or a combination of these. Any conduct that constitutes a sexual offense under Arkansas law is also subject to disciplinary sanctions under this policy.

Victims of sexual assault have the right to file criminal charges with local law enforcement authorities and, upon request, are entitled to assistance from the University in notifying those authorities. Victims also have the right to file a complaint with the University to have a sexual assault allegation investigated by the University, and the right to participate in any disciplinary proceedings regarding the sexual assault complaint. Because of the traumatic nature of sexual assault, victims are strongly encouraged to seek professional help. On campus, free and confidential counseling services and referrals are available at Counseling and Career Planning Services in Ross Hall 417. Due to the nature and value of evidence, it is important that any sexual assault be reported as soon as possible. A complaint should be filed with the University within 30 days of the incident. The initial complaint may be filed with any of these University offices:

- The Department of Public Safety
- The Office of Campus Life
- The Office of Human Resources

**Smoke-Free Campus**

The University of Arkansas at Little Rock is a smoke-free campus. This policy originated in recommendations from the Student Government Association and the University Assembly. This policy applies to all locations of the University, including the main campus, the William H. Bowen School of Law, and the UALR Benton Center. All individuals are expected to comply with this policy. Persons who fail to comply are subject to disciplinary action. (Chancellor’s Office, 8/16/09)
# Four-Letter Course Codes

<table>
<thead>
<tr>
<th>Four-Letter Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Accounting</td>
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</table>
The Intensive English Language Program (IELP), in the College of Arts, Humanities and Social Sciences, offers non-English speakers a full-time program in English language skills: speaking, listening, reading, and writing. IELP courses are listed in the Department of International and Second Language Studies. After completing IELP, students with the necessary academic qualifications may be admitted to UALR without taking the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE), or the Michigan test.

Conditional admission to UALR may be granted to IELP students with acceptable secondary school, college, or university grades.

IELP provides language training as well as cultural and academic orientation programs for the following students:

- International undergraduate or graduate students applying for admission to a U.S. college or university who must first improve their language skills.
- International undergraduate or graduate students who have been admitted to UALR but require further language preparation.
- Community residents who want to improve their English language skills for personal or professional purposes.

IELP Objectives

- To help students improve the speaking, listening, reading, and writing skills that will enable them to successfully undertake work in regular university classes.
- To enable students to participate actively in most conversational situations.
- To introduce students to American culture in terms of a typical U.S. campus and community.
- To foster international and intercultural awareness and understanding.

Eligibility

Only students who are 17 years of age or older are eligible for admission to IELP. No prior knowledge of English is necessary. Foreign students must provide documentation to establish their ability to support themselves while in the U.S.

English as a Second Language (ESL)

Credit and non-credit courses in ESL are offered during the fall, spring, and summer sessions. Intensive English classes focus on preparation for university study. Placement testing for the three-level intensive English program is held at the beginning of each semester. Testing is also available for international students who require language clearance before registering for UALR classes. Students receive English instruction at the appropriate level of difficulty.

- Placement: Upon arrival, students are placed in the appropriate level on the basis of diagnostic tests.
- Levels: The IELP offers three levels of instruction: Foundations, Intermediate, and Pre-university/TOEFL.
- Classes: Each student has at least 20 hours of instruction per week; every student works to acquire grammar, pronunciation, culture, reading, writing, listening, speaking, and study skills. TOEFL preparation is offered at the highest level.
- Time frame: There are three semesters of instruction each year; each term is approximately fifteen weeks in length. Students may progress from foundations to the pre-university/TOEFL level in one year. However, determination and diligence determine how quickly an individual advances to the next level.

Visa Requirements

Every IELP student must follow standard U.S. Immigration and Naturalization Service procedures for entry into the U.S. A student planning to study in the U.S. must obtain an F-1 visa. UALR is authorized to issue a Certificate of Student Eligibility (I-20) to eligible students. Students with the F-1 visa must remain full-time students to maintain F-1 status.

Application and Admission

The student should initiate the application process at least three months before planning to enter UALR. To apply:

- Complete and submit the IELP application form.
- Submit supporting financial data (data must be verified by a bank stamp or the local U.S. Embassy or Consulate).
- Send a U.S. $100 bank draft or money order as a nonrefundable application fee. An I-20 will be sent to qualified applicants. Please allow one month for return.

Tuition

Students should contact the IELP for up-to-date information on costs for tuition, housing and food, books, medical insurance, and other fees.

Working While at IELP

IELP Students are not allowed to work while they are studying at IELP. Once an IELP student graduates from the program, he/she might be able to work on campus, but the student must obtain prior approval from the Office of International Services (Education Building, Room 101).
Interdisciplinary Study

The University provides opportunities for interdisciplinary study, combining aspects of several academic disciplines that may be affiliated with more than one department or college. These include baccalaureate and associate degrees, minors, and individual courses.

Interdisciplinary Degree Programs

For more information about the programs below, students should consult the listings appearing under the appropriate department or college in this catalog.

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Interdisciplinary Minors

For more information about the minors below, students should consult the listings appearing under the appropriate department or college in this catalog.

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Prelaw Studies

Joanne Matson, Coordinator

Department of Rhetoric and Writing, SUB 108 | (501) 569-8386 | jmlmatson@ualr.edu

Students interested in pursuing a legal career through law school after completion of the bachelor’s degree should get the most from their undergraduate education. Law school admission committees are usually impressed by applicants who can convincingly demonstrate that they have challenged their thinking and reasoning skills in a variety of courses. Law schools prefer students who can think, read, and write well, and who have some understanding of what shapes human experience.

Unlike the premedical curriculum, which contains some specific, mandatory courses, there is no recommended set of prelaw courses. Law schools prefer that you reserve your legal study for law school and fill your undergraduate curriculum with broad, diverse, and challenging courses. Courses that introduce you to broad legal principles may present you with enough information to decide whether or not you want to continue with a legal education, but they are rarely taught with the depth and rigor of actual law school courses.

UALR offers a legal studies minor for a general understanding of law and legal institutions, but it is not a required minor for law school admission. See the "Legal Studies Minor" section in the Department of Rhetoric and Writing, or contact the coordinator, Joanne Liebman Matson, SUB 108, (501) 569-8386, or jmlmatson@ualr.edu.

Pre-professional Studies in the College of Science and Mathematics

The College of Science and Mathematics offers students pre-professional curricula for professional areas requiring a background in science or technology as well as in liberal arts. The associate dean and the college’s Premedical Advisory Committee advise students preparing to enter such programs. Advisement in the other pre-professional areas is available through the associate dean’s office in Engineering Technology and Applied Sciences (ETAS) 125.

Individual Interdisciplinary Courses (IDST)

The content of each of these courses changes with each offering. Interested students should consult the list of current course offerings for the title, description, and teachers of each course. More information can be obtained from one of the instructors listed.

In general, interdisciplinary courses address a theme or a problem from the viewpoints of several academic disciplines or a subject that does not fall within one of those disciplines. These courses are often supervised by more than one teacher. Courses include:

IDST 1100, 1200, 1300, 2100, 2200, 2300, 3100, 3200, 3300, 4100, 4200, 4300

Each interdisciplinary studies course carries a number and title indicating that course’s level, credit hours, and subject, such as IDST 3312 The Humanities and Technology. All such courses apply as credit hours toward the total needed for graduation and as elective hours. Their applicability toward a major or minor is determined by the department, college, or school of the student’s major or minor field.
Donaghey Scholars Program

The Donaghey Scholars Program is UALR’s University-wide honors program. Its interdisciplinary curriculum promotes critical thinking and active learning. Scholars classes demand wide reading and extensive writing and lead to vigorous discussions and frequent independent study.

The Donaghey Scholars admissions process uses academic records, test scores, written essays, recommendations, and personal interviews to determine whether the student would benefit from admission to the program. Since space in the program is limited to a total of 100 students, admission is highly competitive. Each year’s class is composed of incoming college freshmen, students transferring from other colleges, and UALR students who have been referred to the program by faculty members. Both traditional and nontraditional students are in the Scholars Program.

Students who are admitted to the program are granted a scholarship equal to the full in-state tuition, a stipend (currently $2,250, $3,500, or $5,000 per semester), and a generous subsidy applied toward study abroad. Scholars who perform satisfactorily are assured of up to eight semesters of support.

Scholars classes are small, making it possible for faculty to get to know students and their interests. Informal advising is frequent. Formal advising in the Scholars Program is handled by the Director for all Scholars who have not declared a major. Because the Scholars Program has requirements spread over four years, the Director remains informed of the Scholar’s progress in meeting these requirements, even when formal advising has been transferred to the department of the Scholar’s major area of study.

The Scholars Program has a specially designed interdisciplinary curriculum, which replaces the University’s core curriculum requirements.

Students admitted to the Donaghey Scholars Program who meet all of the requirements of the Program, as well as all of the requirements in their major and minor fields, graduate as Donaghey Scholars.

Scholars Program Requirements

Scholars Core Courses:

- SCHL 1101, 1102 Scholars Colloquium I and II
- SCHL 1300, 1301 Rhetoric and Communication I and II
- SCHL 1320, 1321 Science and Society I and II
- SCHL 2310, 2311 Individual and Society I and II
- SCHL 3310, 3311 Individual and the Creative Arts I and II
- SCHL 2300, 2301, 3300 History of Ideas I, II, and III

Other Requirements:

- One seminar outside the student’s primary field
- Fulfillment of the University’s core curriculum mathematics requirement
- US History or American National Government
- A lab science course
- Successful completion of an oral proficiency examination in a second language
- Study abroad in an approved program
- Final project
- Exit interview
- A course in the history of civilization, though not required, is strongly recommended
Students interested in teaching in secondary education in Arkansas must be licensed by the state in a state-approved subject area. UALR programs in secondary teacher education are designed to prepare students for licensure. Candidates for licensure must pass examinations mandated by the state, be U.S. citizens, and pass a criminal background check and a tuberculosis skin test.

### Secondary Teacher Licensure Areas

| Art Education                  | Physical Education, Wellness, Leisure |
| English and Language Arts Education | Mathematics Education               |
| Foreign Language Education (French, German, or Spanish) | Physical Science / Earth Science Education |
| Vocal Music Education          | Life Science / Earth Science Education |
| Social Studies Education (History or Political Science) |  |

All secondary education programs have several components: university core requirements, an 18-hour Secondary Education Minor, and a major in a content area (such as Art, English, Math, or Biology, etc.). Some programs also require additional courses, blocks of courses, or other special minors related to the licensure area. Programs in which a Bachelor of Arts degree is awarded include a second language proficiency requirement. See “Second Language Requirement” in the Degree Requirements Section.

All students must have a minimum of 124 hours (including 45 hours of upper-level courses) to graduate. Because these requirements often overlap and are complicated in other ways, early and careful planning is necessary to complete the programs in four years. Students are encouraged to contact a faculty advisor in their area of interest as early as possible after acceptance to UALR. The components of the secondary education programs are described below. Course descriptions, numbers, and titles are found in the catalog sections for the departments offering the courses.

### University Core Requirements

A student seeking a baccalaureate degree must complete a total of 44 hours in core courses. Options within the core may be restricted by the content majors, associated blocks of courses, or special minors in some licensure areas. A student should consult the requirements of his or her licensure area before selecting core courses.

### Retention

Once admitted, students are required to maintain a 2.65 grade point average, with at least a “C” in all professional courses (this includes all courses associated with the licensure/degree plan). In addition, students’ professional behaviors, content knowledge, and classroom performance will be evaluated throughout the program.

Successful completion of the licensure program is not based solely on the number of course credits, but requires demonstration of specified professional knowledge, skills, and behaviors.

Once the student has begun the program, periodic evaluations will assess progress. Failure to progress satisfactorily might result in a student being removed from the program. While a student may require additional time to meet some performance expectations, the faculty may limit that time and reserves the right to drop a student from the licensure program should appropriate progress not be demonstrated.

### Minor in Secondary Education UALRTeach (18 Hours) for Mathematics and Science Majors

UALRTeach introduces science and mathematics majors to the teaching profession through early field experiences with mentor and master teachers. One degree: unlimited opportunities - learn how UALRTeach can expand your career options! Explore teaching through two one-hour, hands-on, tuition-reimbursed courses (SCED/IGSC 1101 Step 1 and SCED / IGSC 1102 Step 2). Additional courses required in the UALRTeach program emphasize the relationships between mathematics and science, while integrating teaching content and skills throughout the field-intensive curriculum. See content area for required courses in the major.

#### Praxis Exams:

- **Praxis I: Reading, Writing, and Mathematics**
- **Praxis II: Principles of Learning and Teaching 7-12 or content pedagogy test**
- **Praxis II: All Content exams (listed on the following pages for each licensure area)**

The Secondary Education UALRTeach Minor is required for students seeking licensure in math and science content areas and should not be confused with other blocks of courses or special minors required in some licensure areas.

#### Admission Requirements:

- 2.65 GPA;
- Completion of the following core courses with a grade of C or greater:
  - MATH 1302 OR 1315, RHET 1311 AND 1312, SPCH 1300

#### Minor Prerequisites: (2 hours)

- SCED/IGSC 1101 Step 1: Inquiry Teaching FYC
- SCED/IGSC 1102 Step 2: Inquiry Lesson Design

#### Minor Courses: (18 hours)

- SCED 3383 Knowing and Learning
- SCED 3384 Classroom Interactions
- IGSC 4386 STEM Methodologies
- SCED 4387 Project Based Instruction
- SCED 4689 Apprentice Teaching
Minor in Secondary Education (18 Hours)

Praxis Exams:
Praxis I: Reading, Writing, and Mathematics
Praxis II: Principles of Learning and Teaching 7-12
Praxis II: All Content exams (listed on the following pages for each licensure area)

The Secondary Education Minor is required in all programs and should not be confused with other blocks of courses or special minors required in some licensure areas.

Block I: Career Awareness Semester
Admission Requirements: 2.65 GPA; Completion of 60 hours; Completion of the following core courses with a grade of C or greater:
MATH 1302 OR 1315, RHET 1311 AND 1312, SPCH 1300
Passing scores on the Praxis I exam (current pass scores, but subject to change):
- Reading 172 or above, Writing 173 or above, Mathematics 171 or above

Block I Course Requirements: (3 hours)
SCED 3210 Instructional Skills and Assessment
SCED 3110 Instructional Skills Practicum

Block II: Mastery of Principles of Learning and Teaching

Block II Course Requirements: (6 hours)
SCED 4321 Teaching Diverse Adolescents
SCED 4122 Adolescent Diversity Practicum
SCED 4123 Adolescents with Special Needs
SCED 4124 Classroom Management

Block III: Student Teaching
Admission Requirements: 2.65 GPA; a grade of C or greater in all Block II Classes; Passing scores on Praxis II Content Exams.

Block III Course Requirements: (9 hours)
TCED 4600 Student Teaching
SCED 4330 Reflective Teaching
Content Components (See Individual Content Components on the pages that follow)
Admission Requirements: 2.65 GPA; a grade of C or greater in all Block I courses.

Minor in Secondary Education (18 hours)
Fast-Track option

Fast-Track Option:
Prior to admission to complete Block I and Block II simultaneously, known as Fast Tracking, students must meet all of the following requirements:
- Admission requirements for Block I and II, with the exception that Block I coursework will be completed simultaneously, instead of Block I coursework as a prerequisite to Block II, including a “C” or greater in MATH 1302 or 1315, RHET 1311 and 1312, and SPCH 1300,
- Completion of a minimum of 80 hours prior to admission to the minor,
- GPA of 3.5 or above,
- Passing Praxis I and Praxis II (Content) scores,
- Completion of or concurrent enrollment in specialized instructional methods course prior to or concurrent with the semester of Fast Tracking,
- Writing sample that demonstrates writing competency evaluated by SCED faculty member and faculty content advisor, and
- Interview with SCED faculty and faculty content advisor with a favorable recommendation from both.

Core Requirements for Bachelor Degrees with Secondary Teacher Licensure

English/Communications Licensure (9 hours)
RHET 1311 Composition I
RHET 1312 Composition II
SPCH 1300 Speech Communication

Social Sciences (15 hours)
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II

One course (3 hours) from the following:
HIST 2311 U.S. History to 1877
HIST 2312 U.S. History since 1877
POLS 1310 American National Government

Two courses (6 hours) from the following:
ANTH 2316 Cultural Anthropology
GNS T 2300 Introduction to Gender Studies
GEOG 2312 Cultural Geography
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
MCOM 2330 Mass Media and Society
SOCI 2300 Introduction to Sociology
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
POLS 2301 Introduction to Political Science

Math (3 hours)
MATH 1321 Quantitative and Mathematical Reasoning (Non-STEM majors)
MATH 1302 College Algebra

Science (8 hours)
ANTH 1415 Physical Anthropology
ASTR 1301 Introduction to Astronomy
and ASTR 1101 Introduction to Astronomy Laboratory
BIOL 1400 Evolutionary and Environmental Biology
BIOL 1401 Science of Biology
CHEM 1409 Chemistry and Society
ERSC 1302 Physical Geology
and ERSC 1102 Physical Geology Laboratory
ERSC 1303 Historical Geology
and ERSC 1103 Historical Geology Laboratory

Fine Arts/Humanities (9 hours)
One course (3 hours) from the following:
ENGL 2338 World Literature Themes
ENGL 2337 World Literature
MATH 2320 Ethics and Society

Two of the following courses (6 hours):
MUHL 2305 Introduction to Music
ARHA 2305 Introduction to Visual Art
THEA 2305 Introduction to Theatre and Dance

Praxis Series Tests
Students in all programs must pass several standardized exams mandated by the State of Arkansas, The Praxis Series: Professional Assessments for Beginning Teachers, developed by Educational Testing Services, Inc. Successful completion of the Praxis I is required for admission to Block I of the Secondary Education Minor.
In order to complete the Secondary Education Minor, students must also pass the Praxis II pedagogy exam (Principles of Learning and Teaching) and all required Praxis II content exams within their licensure area. The content exams, listed on the following pages, are those required by the State of Arkansas at the time of publication of this catalog but are subject to change.
Students who do not pass the exams are ineligible to graduate under a secondary education program degree plan with a minor in secondary education and are ineligible for teaching licensure. In such cases, students may qualify to graduate under another degree plan, although additional course work may be required.

- Students should consult an advisor in their licensure content area before registering to take exams.
- Students must submit completed “Praxis I and II” scores to the College of Education.

Content Components
All programs require the completion of a major in the chosen field and in some cases require additional courses, blocks of courses, or other special minors. When the hours accumulated within a content area, taken together with university core hours, second language hours, and the 18 hours in the Secondary Education minor do not total 124 (of which at least 45 are upper-level), students must take additional general electives.

Licensure Area: Art

Praxis II Licensure Exams
Art: Content Knowledge – 10135
Principles of Learning and Teaching in any area – 20621, 20623, 20624

Students must major in art, completing the following curriculum (64 hours).

Foundations (15 hours)
- ARST 1310 Basic Drawing
- ARST 1315 2-D Design
- ARST 2310 Figure Drawing
- ARST 2315 3-D Design
- ARST 2318 Computer Applications in Art

Studio (27 Hours)
- ARST 3310 Advanced Drawing I
- ARST 3320 Painting I
- ARST 3330 Printmaking I
- ARST 3340 Graphic Design I or ARST 3380 Illustration
- ARST 3350 Ceramics I
- ARST 3360 Sculpture I
- ARST 3370 Photography I
- ARST 3312 Crafts I

3 hours of ARST electives

Art History (15 Hours)
- ARHA 2310 Survey of the History of Art I
- ARHA 2311 Survey of the History of Art II
- ARHA 2312 Survey of Non-Western Art

Two additional ARHA courses, excluding 2200, 4302, & 4303

Art Education (10 hours)
- ARED 3316 Teaching Art in the Secondary School
- ARED 3345 Public School Art
- ARED 4194 Independent Study (Student teaching)

Students in the bachelor of arts in art/secondary education program who want to enroll in a master of arts in art or master of fine arts program after graduation need to take additional studio and art history course work at the undergraduate level.

Licensure Area: English Language Arts

Praxis II Licensure Exams: English Language
English Language Literature and Composition: Content and Analysis – 20044
English Pedagogy – 20043

Students must major in English in keeping with the following curriculum:

Required Courses (21 hours)
- ENGL 3330 Approaches to Literature
- ENGL 3331 Major British Writers I
- ENGL 3332 Major British Writers II
- ENGL 3311 History of the English Language
- ENGL 3312 Grammar, Morphology, and Syntax
- ENGL 3360 Selected Topics (when taught as Studies in World Literature)
- ENGL 4199 Career Perspectives
- ENGL 4202 Teaching Literature in the Secondary Schools

Additional English Requirements (12 hours total) to include:
- American Literature (3 hours)
- ENGL 3321 American Literature I
- ENGL 3322 American Literature II
- ENGL 3323 American Literature III African-American Literature (3 hours)
- ENGL 3326 African-American Literature I
- ENGL 3327 African-American Literature II

Upper-level (3000-4000) English Electives (6 hours)

Additional Competencies beyond required English hours (8 hours)
- RHET 4202 Teaching Writing in the Secondary Schools
- RHET 3317 Introduction to Nonfiction Writing

Adolescent Literature (3 hours)
- RHET 1312 (when the topic is Writing about Children and Their Literature)
- RHET 4347 (when the topic is Writing for Children and Families)
- SCED 4316 Adolescent Literature
- ENGL 4375 Adolescent Literature

Licensure Area: Vocal Music

Praxis II Licensure Exams:
Music: Content and Instruction – 10114
Music candidates may take any level of Principles of Learning and Teaching – 20621, 20623, 20624

Students must major in music with an emphasis in applied music and meet with the Music Department Chair each semester for advising.

Music Major (59 hours)
- MUTH 2381 Music Theory I
- MUTH 2391 Music Theory II
- MUTH 3381 Music Theory III
- MUTH 2291 Aural Skills I
- MUTH 2292 Aural Skills II
- MUTH 3231 Form and Analysis

Music Ensemble (4 hours)

Applied Study (4 hours)

Upper-level Applied Study (4 hours)
- MUTH electives (3 hours)
- MUHL 3322 Survey of Western Art Music
- MUHL 3381 American Music
- MUHL elective chosen from: 3351, 3361, 3370, 3371

(3 hours)

Six semesters of MUAP 1000 Recital Attendance

Music Education Emphasis (14 hours)
- MUAP 3224 Conducting I
- MUAP 3325 Conducting II
- MUED 3314 Vocal Pedagogy
- MUED 3315 Teaching Choral Music in the Secondary Schools
- MUED 3322 Music in the Elementary Grades

Six hours of Music electives
Students in the secondary education track are strongly encouraged to take either MUTH 4310 Arranging or MUTH 4320 Composition I as the theory elective.

Additionally, students are required to take MUHL 3322 Survey of Western Art Music, MUHL 3381 American Music, complete at least two semesters in MUEN 4113 Concert Choir, and enroll in MUEN 4140 Community Choir each semester they are enrolled in this emphasis.

Students in the secondary education track are required to demonstrate piano/keyboard proficiency. For students with little or no piano/keyboard background, it may be necessary to take up to 8 hours of piano/keyboard classes MUAP 1214 Piano Class I, 1244 Piano Class II, 2284 Class Piano III, and 3265 Piano Skills to fulfill this requirement.

**Licensure Area: Foreign Language**

**Praxis II Licensure Exams:**

**Spanish: World Languages – 5195**

**World Languages Pedagogy – 10841**

Please note: Beginning October 1, 2010, the Praxis II for Spanish students will change. The new Praxis II test for Spanish Licensure will be 0195 – Spanish: World Language. It is a 2 hours and 45 minute test. The new pedagogy test for all foreign language candidates will be 0841 – World Languages Pedagogy. It is a 2 hours test.

**French: World Languages – 5174**

**World Languages Pedagogy – 10841**

Please note: Beginning Oct 1, 2010, the Praxis II pedagogy test for all foreign language candidates will be 0841 – World Languages Pedagogy. It is a 2 hour test.

Students must major in Spanish or French Studies, and it is recommended that the student also minor in a field taught in secondary schools. English, social studies, and the arts are common combinations with foreign languages. An official ACTFL-certified Oral Proficiency Interview is required for all students seeking Teacher Licensure in French or Spanish. Certification at the Advanced-low oral proficiency level as defined by ACTFL is required prior to admission to student teaching in a second language. See “Department of International & Second Language Studies” for details pertaining to each of the majors in foreign languages. Second Language Education Block (12 hours)

These courses provide the requirements for the Arkansas ESL endorsement. Any part of the block may be met by demonstration of competency.

- LANG 4322 Methods of Teaching Second Languages
- LANG 4323 Second Language Acquisition
- LANG 4324 Teaching People of Other Cultures
- LANG 4325 Second Language Assessment

**Licensure Area: Social Studies – History**

**Praxis II Licensure Exams:**

**Social Studies: Content Knowledge – 10086**

**Principles of Learning and Teaching – 20624**

**History Major (30 hours)**

- HIST 2311 U.S. History to 1877
- HIST 2312 U.S. History since 1877
- HIST 4355 History of Arkansas
- HIST 4397 Teaching Applications
- 3 hours U.S. History electives
- 6 hours non-U.S. History electives (European ancient, Latin American, or Asian)
- 3 hours Senior capstone seminar (taken after 90 total hours)
- 6 hours upper level history electives

**Social Studies Minor (21-30 hours):**

If the following courses are not taken for the core, they must be taken as part of the social studies minor:

- ECON 2301 Survey of Economics
- POLS 1310 American National Government
- POLS 2301 Introduction to Political Science

**6 hours of behavioral sciences from:**

- ANTH 2316 Cultural Anthropology
- PSYC 2300 Psychology and the Human Experience
- SOCI 2300 Introduction to Sociology

**6 hours of geography, the following are recommended:**

- GEOG 2310 World Regions
- GEOG 2312 Cultural Geography

**Licensure Area: Social Studies – Political Science**

**Praxis II Licensure Exams:**

**Social Studies – Content Knowledge -10081**

**Analytical Essays – 20082**

**Principles of Learning and Teaching – 20524**

**Political Science Major (33 hours)**

- POLS 1310 American National Government
- POLS 2301 Introduction to Political Science
- POLS 3350 Arkansas Government and Politics

At least three hours of POLS courses from each of the following sub-fields:

**American Political Institutions and Processes**

- POLS 3300 American Political Parties
- POLS 3303 American State and Local Government
- POLS 3305 Elections and Public Opinion
- POLS 3310 Policy Process
- POLS 3320 The American Presidency
- POLS 3325 Legislative Process and Behavior

**Normative and Empirical Analysis**

- POLS 3302 Methods of Political Inquiry
- POLS 3390 American Political Thought
- POLS 4380 Classical Political Theory
- POLS 4390 Modern Political Theory

**Constitutional Law**

- POLS 4350 Constitutional Law: Governmental Powers
- POLS 4351 Constitutional Law: Civil Liberties

**Comparative Politics**

- POLS 3360 Comparative Government: Western
- POLS 3370 Comparative Government: Developing Areas

**International Relations**

- POLS 4320 American Foreign Policy
- POLS 4340 International Relations
- 9 additional upper level POLS hours

**Social Studies Minor (21-30 hours)**

- ECON 2301 Survey of Economics
- SOCI 2300 Introduction to Sociology
- GEOG 2310 World Regions
- GEOG 2312 Cultural Geography
- HIST 4355 Arkansas History
- HIST 2311 U.S. History to 1877
- or 2312 U.S. History from 1877 (must be a course that is not taken as part of the University Core)
- POLS 4397 Social Studies Teaching Applications
If the following courses are not taken as part of the University Core, they must be taken as part of the Social Studies Minor.

ANTH 2316 Cultural Anthropology
PSYC 2300 Psychology and the Human Experience

**Licensure Area: K-12 Physical Education, Wellness, and Leisure Science (PEWL)**

**Praxis II K-12 PEWL Licensure Exams:**
- Health & Physical Education: Content Knowledge – 20856
- Physical Education: Content and Design – 20095
- Principles of Learning and Teaching (PLT) in any areas – 20621, 20623, 20624

For the Coaching Endorsement – Test 20095 must be taken

Students must major in Health, Human Performance & Sport Management, completing the following curriculum:

**General Health, Human Performance & Sport Management Concentration Area (8 hours)**
- HHPS 3401 Nutrition
- HHPS 3412 Applied Human Sciences
  or BIOL 1411 or 1412 Human Anatomy and Physiology

**Professional Area Requirements (55 hours)**
- HHPS 2372 Care & Prevention of Injuries
- HHPS 3210 Individual Sports
- HHPS 3211 Health & Safety of Early Childhood
- HHPS 3212 Teaching Individual Sports II
- HHPS 3220 Teaching Team Sports
- HHPS 3222 Teaching Team Sports II
- HHPS 3302 Exercise Physiology
- HHPS 3310 Coaching Theory and Methodology
- HHPS 3320 History of Physical Education
- HHPS 3330 Teaching PK-5 Physical Education
- HHPS 3372 Advanced First Aid
- HHPS 3377 Drug Education K-12
- HHPS 3402 Kinesiology
- HHPS 3410 Biomechanics of Human Movement
- HHPS 3422 Exercise, Wellness, & Lifestyles
- HHPS 4340 Adapted Physical Ed. K-12
- HHPS 4350 Methods & Techniques of Teaching Physical Education 6-12
- HHPS 4379 Methods & Techniques of Teaching HLED
- HHPS 4384 Motor Development

**Licensure Area: Mathematics**

**Praxis II Licensure Exams:**
- Math Content Knowledge – 10061
- Math Proofs, Models and Problems – 20063
- Math Pedagogy – 20065

Students must earn either a bachelor of science or a bachelor of arts in mathematics. See “Department of Mathematics & Statistics” for details about the BA and B.S. in Mathematics degrees. Contact an advisor in the Department of Mathematics and Statistics for details about specific course requirements.

**Licensure Area: Physical/Earth Sciences**

**Praxis II Licensure Exams:**
- Earth Sciences: Content Knowledge – 20571
- Physical Science: Content Knowledge – 20481
- Physical Science: Pedagogy – 20483

Students must major in Chemistry, Geology, or Physics

**Chemistry Major (Bachelor or Arts)**

CHEM 1402/1403 General Chemistry I and II
- CHEM 2310/2311 Analytical Chemistry I and II
- CHEM 3350/3351 General Organic Chem I and II
- CHEM 3150/3151 General Organic Chem Lab 1 and II
- CHEM 3340 Inorganic Chemistry
- CHEM 3572 Life Sciences Physical Chemistry
- CHEM 4190 Seminar
- ERSC 1302/1102 Physical Geology
  and 1303/1103 Historical Geology
- ERSC 3310 Earth Materials
- ERSC 3320 Field Geology I
- ERSC 4411 Igneous and Metamorphic Petrology
  or 3430 Structural Geology
- IGSC 4401 Integrated Science Methods
- PHYS 1321, 1322 Elementary Physics I and II
- PHYS 1121, 1122 Elementary Physics Lab I and II
- MATH 1302 College Algebra
- MATH 1303 Trigonometry

**Geology Major (Bachelor of Science)**

ERSC 1302/1102 Physical Geology lecture/lab
- PHYS 3350 Electronics
- PHYS 3315 Teaching Physics in the Secondary Schools
- PHYS 4111 Advanced Lab
- PHYS 4190 Seminar
- ERSC 1302/1102 Physical Geology
- ERSC 1303/1103 Historical Geology
- ERSC 3310 Earth Materials  or 3320 Field Geology I
- ERSC 4411 Igneous and Metamorphic Petrology, 3430 Structural Geology, 3440 Sedimentology, 3360 Paleobiology, or 3372 Surficial Hydrology
- ERSC 1303/1103 Historical Geology lecture/lab
- ERSC 3310 Earth Materials
- ERSC 3320 Field Geology I
- ERSC 3430 Structural Geology
- ERSC 3440 Sedimentology
- ERSC 4190 Senior Seminar
- ERSC 4411 Igneous and Metamorphic Petrology
- ERSC 4320 Field Geology II or approved Geology Field Camp
- CHEM 1402/1403 General Chemistry I and II
- PHYS 1321/1121 Elementary Physics I/lab
- PHYS 1322/1122 Elementary Physics II/lab
- IGSC 4401 Integrated Science Methods
- MATH 1304 Calculus I
- 6 hours from any combination MATH/CPSC/STAT
Physics Major (Bachelor of Arts)
ATR 1301/1101 Intro to Astronomy/Lab
ATR 2301/2101 Scientific Computing/Image Processing
PHYS 2321/2121 Physics for Scientists and Engineers/ Lab
PHYS 2322/2122 Physics for Scientists and Engineers/ Lab
PHYS 3323/3123 Physics for Scientists and Engineers/ Lab
IGSC 4401 Integrated Science & Methods
CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
CHEM 2310 Analytic Chemistry I
CHEM 2311 Analytic Chemistry II
CHEM 3350/3150 General Organic I/Lab
or 3351/3151 General Organic II/Lab
MATH 1304 Calculus I
MATH 1305 Calculus II
MATH 2306 Calculus III

Licensure Area: Life/Earth Sciences

Praxis II Licensure Exams:
Biology: Content Knowledge – 20235
Biology: Pedagogy – 10234
Earth Sciences: Content Knowledge – 20571

Students may major in either Biology or Geology.

Biology Major (Bachelor of Science)
BIOL 1400 Evolutionary and Environmental Biology or 1401 Science of Biology
BIOL 2401 Microbiology
BIOL 2402 Botany
BIOL 2403 Zoology
BIOL 3100 Genetics Laboratory
BIOL 3300 Genetics
BIOL 3103 Principles of Ecology Lab
BIOL 3303 Principles of Ecology
BIOL 4190 Biology Seminar

Biology Electives – 12 hours to include at least one course in organismal and cellular biology
ERSC 1302/1102 Physical Geology
ERSC 1303/1103 Historical Geology
ERSC 3380 Oceanography
or ERSC 3390 Weather Studies
ERSC electives – 3 hours upper level
PHYS 1310 Physical Concepts or 1321 Elementary Physics
IGSC 4401 Integrated Science Methods

Must include 8 hours of freshman chemistry and four hours of organic chemistry (take sequence one or two).

Sequence One
CHEM 1400 Fundamental Chemistry I
CHEM 1401 Fundamental Chemistry II
CHEM 2450 Organic Chemistry – Short Course

Sequence Two
CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
CHEM 3350/3150 General Organic Chemistry I

Geology Major (Bachelor of Science)
ERSC 1302/1102 Physical Geology lecture/lab
ERSC 1303/1103 Historical Geology lecture/lab
ERSC 3310 Earth Materials
ERSC 3320 Field Geology I
ERSC 3430 Structural Geology
ERSC 3440 Sedimentology
ERSC 4190 Senior Seminar
ERSC 4411 Igneous and Metamorphic Petrology
ERSC 4320 Field Geology II
BIOL 1400 Evolutionary and Environmental Biology
or 1401 Science of Biology

4-6 hours of BIOL courses at or above the 2000-level
ERSC 3360Paleobiology (may be counted as upper-level Biology hours)
CHEM 1402,1403 General Chemistry I and II
MATH 1451 Calculus I and MATH 1452
or STAT 2350 Intro to Statistics
IGSC 4401 Integrated Science Methods

Courses in Secondary Education (SCED)
SCED/IGSC 1101: Step 1-Inquiry Teaching (FYC)
This course satisfies the First-Year Colloquium (FYC). An introduction to the theory and practice necessary to design and deliver quality inquiry-based science and mathematics instruction that provides the scaffold for the early field experience. In this one hour credit course, the UALRTeach instructor or master teacher and the elementary school mentor teacher emphasize both inquiry and classroom management techniques. Step 1 invites candidates to explore teaching as a career. With the guidance of the instructor, in Step 1, candidates teach science or math lessons in upper elementary classrooms to obtain firsthand experience with planning and implementing inquiry-based curriculum. Master teachers teach Step 1, so candidates have direct access to accomplished teachers holding certificates who love teaching and who believe that teaching is a rewarding career choice. Local public school elementary classrooms provide the future teachers with a first taste of teaching in a supportive, diverse environment. Candidates shall be required to submit to a criminal background check. One-credit hour.

SCED/IGSC 1102: Step 2-Inquiry Lesson Design
Prerequisite or Co-requisite: SCED/IGSC 1101. This course (Step 2) continues the exploration of teaching careers in a middle school environment that began in SCED/IGSC 1101 (Step 1). In this one-hour credit course, students observe a lesson taught by a middle school mentor teacher, and then plan and teach three inquiry-based middle school lessons with a partner. Students build on and practice lesson design skills developed in the Step 1 course while also becoming familiar with science or mathematics curricula for the middle school setting. Students demonstrate their own content knowledge in developing the lesson plans. As a result of their classroom experiences, students reflect on the observation and their teaching. At the end of the Step 2 experience, students are generally ready to make a decision about whether they want to pursue a pathway to teacher certification. One-credit hour.

SCED 3110 Instructional Skills and Assessment Practicum
Prerequisite: acceptance into the secondary education minor. Corequisite: SCED 3210. This field placement requires 30 hours of observation and teaching activities in a local public school where students will apply basic instructional skills and assessments to teaching lessons within their content area. One credit hour.
SCED 3210 Instructional Skills and Assessment
Corequisite: SCED 3110. The basic instructional skills include how to utilize different approaches to teaching content and the assessment of learning for secondary students. Students develop pedagogical techniques, activities, and assessments that encourage and promote learning. Students test lesson plans, instructional skills, and selected teaching strategies in classes in area secondary schools. Two credit hours.

SCED 3383 Knowing and Learning
Prerequisites or Co-requisites: SCED/IGSC 1102 and admission to the secondary education minor for science and mathematics. The goal of this course is to develop a powerful tool kit of approaches to knowing and learning in mathematics and science. This course focuses on issues of what it means to learn and know science and mathematics. Topics covered will include: standards of knowing, structures for knowing and learning, cross-disciplinary learning, concepts of assessment, and utilities of technology. Three-credit hours.

SCED 3384 Classroom Interactions
Prerequisites: SCED/IGSC 1102 grade of C or greater and admission to the secondary education minor for science and mathematics. An important focus of the course is on building awareness and understanding social equity issues and their effects on learning. Candidates are provided with frameworks for teaching students of diverse backgrounds equitably. Classroom Interactions is centered around a close examination of the interplay between teachers, students, and content, and how such interactions enable students to develop deep conceptual understanding. Three-credit hours.

SCED 4122 Classroom Management
Prerequisites: admission to Block 2 of the secondary education minor and concurrent registration in all Block 2 courses. Students will learn communications, organization, and human relations skills needed for creating a fair and productive classroom. One credit hour.

SCED 4123 Adolescents with Special Needs
Prerequisite: admission to Block 2 of the secondary education minor and concurrent registration in all Block 2 courses. Students learn strategies for modifying instruction for students with special needs and legal requirements for meeting the needs of special students. One credit hour.

SCED 4124 Adolescent Diversity Practicum
Prerequisite: admission to Block 2 of the secondary education minor and concurrent registration in all Block 2 courses. This field placement requires three hours a week of observation and teaching activities in a local public school. One credit hour.

SCED 4321 Teaching Diverse Adolescents
Prerequisites: admission to Block 2 of the secondary education minor and concurrent registration in all Block 2 courses; ANTH 2316, PSYC 2300 or the equivalent. Students use concepts of adolescent development and cultural diversity to develop curriculum, design lessons, and select teaching materials and techniques to meet the needs of students at different developmental stages and of different cultures. Three credit hours.

SCED 4330 Reflective Teaching and Professionalization
Prerequisites: Blocks 1 and 2 of the secondary education minor. Corequisite: TCED 4600. Students are expected to develop their capacity to be professional, reflective practitioners as they deal directly or indirectly with teaching, management, or communications encountered during student teaching. Three credit hours.

SCED 4100, 4200, 4300 Independent Study in Secondary Education
Prerequisite: admission to teacher education program or consent of instructor. An in-depth study of special education problems in the junior or senior high school. One, two, or three credit hours.

SCED 4385 Perspectives
Prerequisites: SCED 3383 Knowing and Learning and admission to the secondary education minor for science and mathematics. Perspectives on Science and Mathematics explores a selection of topics and episodes in the history of science and mathematics. The course illustrates how knowledge has often emerged through many struggles, against obstinate resistance, and within cultural, religious, and social structures. Candidates are brought to understand that science/math are not merely a body of facts, theories, and techniques; science/math involves diverse processes by which they are continually generated and reformulated. Three-credit hours.

IGSC 4386 STEM Methodologies
Prerequisites: SCED/IGSC 1102 and admission to the secondary education minor for science and mathematics. Science, Technology, Engineering, and Mathematics (STEM) Methodologies provides UALRTeach candidates with the tools that scientists use to solve scientific problems; gives candidates the opportunity to use these tools in a laboratory setting; makes candidates aware of how scientists communicate with each other through peer-reviewed scientific literature; and enables candidates to understand how scientists develop new knowledge and insights, the most important of which are eventually presented in textbooks and taught in conventional science classes. Three-credit hours.

SCED 4387 Project Based Instruction
Prerequisites: SCED/IGSC 1102 grade of C or better and admission to the secondary education minor for science and mathematics. Through a dynamic process of investigation and collaboration and using the same processes and technologies that scientists, mathematicians, and engineers use, candidates work in teams to formulate questions, make predictions, design investigations, collect and analyze data, make products and share ideas. Candidates learn fundamental science and mathematical concepts and principles that they apply to their daily lives. Three-credit hours.

SCED 4689 Apprentice Teaching
Prerequisites: IGSC 4386 and SCED 4387 and passing Praxis II (Content assessments). The purpose of the Apprentice Teaching course is to offer UALRTeach candidates a culminating experience that provides them with the tools needed for their first teaching position. In Apprentice Teaching, candidates are immersed in the expectations, processes, and rewards of teaching. Apprentice Teaching is comprised of field experience, teaching in local public secondary schools, and a weekly seminar, which brings apprentice teachers together with university master teachers to share experiences and work on solutions to problems they encounter in the field. Three-credit hours.

TCED 4600 Internship
Prerequisites: SCED 4210/5210 and 4110 and 5110 and passing Praxis II (Content assessments). Co requisites: TCED 4330/5330, Reflective Teaching. This course is a 12 week field practicum that allows candidates to teach their content to high school students. Teacher Candidates are expected to develop their capacity to be professional, reflective practitioner as they deal directly or indirectly with teaching, management, or communication problems encountered during student teaching. Teacher Candidates are expected to develop lesson plans and units correlated with their specific content specialty organization standards (NSTA, NCTM, NCSS, NCTE, or AHEE) to impact student learning in the secondary classroom.
Extended Programs

Old Education Bldg 100-101 | (501) 569-3003 | ualr.edu/extendedprograms

Dean:

Assistant Dean/Director of Online and Off-Campus Programs:
Donna Rae Eldridge

Director of Accelerated Online Programs:
Robin Smith

Director of UALR Benton Center
Kim Jackson

Director of Scholarly Technology and Resources (STaR)
Mark Burris

Extended Programs offers educational opportunities to UALR students online. With these programs, students can take advantage of Accelerated Courses, convenient start dates and schedules, affordable tuition, flexible payment options and financial aid and the ability to balance coursework and work schedules.

UALR offers two types of online programs:

- Extended Programs Online Offers:
  - 15- and 7-week courses
  - Undergraduate Programs
  - Graduate Programs
  - Certificate Programs

- Accelerated Online Offers:
  - 7-week courses
  - Graduate Programs

Learning Online at UALR

UALR Students learn online through courses in Blackboard. UALR offers a wide range of classes online. These web-based classes utilize the Internet to allow UALR students to pursue their education anytime and anywhere.

Planning and Organization

Blackboard offers different tools that help students stay on track and stay organized. The calendar tool in Blackboard is a great way to keep everything organized and keep students on top of their coursework.

System Requirements

Students must have predictable, regular access to and control of a computer as your instructor assignment dates may vary. You may also be required to download files or software to complete class work. If your computer is publicly used or is loaned to you and you cannot download files or software, you will need to discuss your circumstances with your instructor.

Time Expectations

Online learning is just as intensive as learning face-to-face, and time to do the work needs to be scheduled and planned for, just as if one were attending face-to-face classes.

Online Resources

Students who take courses online have access to the Ottenheimer Library. Through their website, students can take advantage of different research databases, scholarly journals, e-books and other research materials. Students can search the library database through the easy search box on the homepage of their website.

UALR Benton Center

UALR offers an Associate of Arts in General Studies degree and a Bachelor of Science in E-Commerce (Electronic Commerce) degree at the UALR Benton Center. Classes in Benton, Arkansas are administered by Extended Programs and taught by UALR faculty. On-site college entrance testing (COMPASS) is available for students age 21 years and older, as well as individual testing for all students wishing to test out of developmental courses. Students enrolled in classes at the UALR Benton Center have full student privileges at UALR’s main campus. Textbook sales and buy-back services are offered on-site.

Additionally, UALR Benton Center has three computer labs, as well as, a Math lab and tutors to help students meet their educational needs. Academic advising, financial aid assistance, and admission assistance are also available. Students may pay their tuition and fees at the UALR Benton Center as well as sign up for a deferred payment plan.

For more information, contact UALR Benton at (501) 860-6003, or visit their website (ualr.edu/benton).
Undergraduate Academic Advising (Originally named University College) was created in 1987 as a part of a university and nationwide movement to address the needs of incoming and undeclared students. While students with an intended track and/or declared major often had access to advising within their respective departments, the growth of the University system and the degree options that came with it led to an ever-increasing number of students that were “exploratory.” From this need, the Faculty Members, namely through the Ad Hoc Committee on Academic Policies and Procedures, created what is today known as Undergraduate Academic Advising.

In addition to Academic Advising, this office offers First Year Colloquium (PEAW) courses and the Associate of Arts in General Studies. PEAW courses are designed to help first-year students transition into the college. As of Fall 2011, the First Year Colloquium is a graduation requirement for all entering, first-time, full-time freshman students at UALR. See the list of courses in the “Getting Started” section.

Office of Undergraduate Academic Advising

The primary function of this office is to provide academic advising for new and continuing students who have not declared a major. Students who are seeking admission to degree programs offered at other institutions and who are taking prerequisite course work at UALR are also advised. A complete review of the student’s academic record is provided each term; required test scores and course placement, transfer work, high school concurrent, AP and IB, and the core curriculum requirements are all considered.

The office maintains advisement records for all undergraduate students who have not declared their major. The degree plan for the associate of arts in general studies is developed and maintained in this office for students who are seeking this degree. Personalized advising conversations are intentional and assist students in learning to assess their competencies, discover their passions and clarify their academic path and that leads to graduation.

Academic advising processes assist in clarifying and reinforcing optimum course sequences to plan degree completion on a full-time or part-time bases. Guidance is based on University policy, state and federal laws, major and minor program requirements and individual choices. Advising via e-mail and telephone is available.

General Studies

The Associate of Arts in General Studies (AAGS) degree was designed with the idea in mind that all students have unique goals and interests. Students’ responses on the AAGS survey, which all students obtaining the degree must complete, confirm this notion. Some students wish to obtain the degree for professional advancement within a company, while others may want to use it as a stepping stone to a bachelor’s degree. Regardless, the common thread is that the AAGS degree reinforces achievement for those who attain it.

General Information

UALR’s mission is to “develop the intellect of students” and “to instill in students a lifelong desire to learn.” The Associate of Arts in General Studies supports this mission by providing students with the same competencies, through the core curriculum, while preparing students to move on to complete a bachelor’s degree. This mission is accomplished through the following goals and objectives:

Learning Objectives

• Complete the UALR Core Curriculum. The purpose of the core curriculum is to establish a foundation for the undergraduate academic experience and to ensure that students develop fundamental skills and a lifelong commitment and ability to learn.
• Be prepared to continue studies for a bachelor’s degree.

Goals

• To provide students with the UALR Core Curriculum as a base for continuing in school for a bachelor’s degree.
• To encourage students to consider this degree as progress toward a higher degree.
• To enable students to feel a sense of personal accomplishment upon receipt of the AAGS degree.
• To provide students with a means of professional advancement.

Associate of Arts in General Studies

General: 60 minimum total hours, including 44 hours of UALR core and 16 hours of unrestricted electives, 2.00 GPA, completion of 15 hours at UALR.

First-Year Colloquium (0-3 hours)

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit (See page 25 for requirement details.)

Core (44 hours)

See page 25 for requirement details. (It is recommended that students select their core courses based on their intended baccalaureate degree requirements.)

Unrestricted General Electives

Any course at the 1000-level or above for which they have the prerequisite (It is recommended that students select electives based upon their intended baccalaureate degree.)
The disciplines within the College of Arts, Humanities, and Social Sciences (AHSS) provide a means for exploring and evaluating the human experience. Through the arts, students learn an awareness of cultural values and gain mastery of materials and techniques needed for aesthetic expression. Study of the humanities and social sciences enables students to examine the significance of behavior and the institutions that define and give meaning to life. Students learn to examine and value people individually, as well as collectively, and to communicate their observations effectively.

Students educated in the arts, humanities, and social sciences are prepared to meet the challenges of contemporary society and lead richer and more rewarding lives by acquiring a broad range of knowledge and cultural expression that enables them to think critically, value learning and culture, and express themselves intelligently.

Programs in this college represent the core of a traditional baccalaureate education and prepare students for advanced study in graduate and professional schools. The college also stresses preparation for specific careers through internships, graduate programs, and field experiences. Through systematic assessment of all programs, the college promotes data-driven improvement of courses and accountability to the mission of the university.

While the primary focus of the college is instructional, the faculty also engages in research and creative activities and share a commitment to serve the social, economic, and cultural development of Arkansas.

The college participates with other academic units in numerous interdisciplinary programs and cooperates with the College of Education to offer programs that prepare students for teacher licensure.

General Information
UALR's metropolitan setting provides students in the College of Arts, Humanities, and Social Sciences with rich opportunities to learn outside the traditional classroom setting. Cooperative programs exist with central Arkansas arts organizations, governmental agencies, health organizations, public schools, and businesses that afford internship and externship experiences for students. Providing ideal laboratories for study and work, these organizations and institutions participate in significant ways in the preparation of students in the college as productive citizens.

Majors
The college offers majors in anthropology, applied design, studio art, art history, English, French, Spanish, history, international studies, interdisciplinary studies, music, philosophy, political science, professional and technical writing, psychology, sociology, theatre arts, and dance.

Five majors include tracks that prepare students for teacher licensure: English (English Language Arts); History and Political Science (Social Sciences); Music (Vocal and instrumental); French and Spanish (Foreign Languages); and Art. See the “Secondary Teacher Licensure” section for more details. Additionally, an online degree option in Interdisciplinary Studies is available.

Minors
Interdisciplinary Programs: Majors, Minors, and Special Centers

The following interdisciplinary majors, minors, and special centers are housed within the college. For program details and contact information for advising, see the coordinator and home department indicated for each.

- **Nonprofit Leadership Studies** (minor or certificate in nonprofit management): Julie Flinn, Department of Sociology and Anthropology
- **Center for Arkansas History and Culture**: Kimberly Kaczenski
- **Gender Studies** (minor): Sarah Beth Estes, Department of Sociology and Anthropology
- **International Studies** (major and minor): Joseph Giammo, Department of Political Science
- **Legal Studies** (minor): Joanne Matson, Department of Rhetoric and Writing
- **Interdisciplinary Studies** (major): Keith Robinson, Department of Philosophy and Interdisciplinary Studies
- **Middle Eastern Studies** (minor): Rebecca Glazier, Department of Political Science

Graduate Degree Programs

Graduate programs in art education, art history, interdisciplinary studies, public history, second languages, studio art, and professional and technical writing are offered in the College of Arts, Humanities, and Social Sciences. In addition, many departments in the college offer graduate courses that can apply toward a graduate degree in education. For more information about graduate degree offerings at UALR contact the Graduate School at (501) 569-3206 or visit the UALR Graduate School website at ualr.edu/gradschool.

Undergraduate Admission Requirements for Majors within the College

For admission to a major within the college, students must meet or exceed eligibility requirements to enroll in RHET 1311 Composition I.

Advising

The College of Arts, Humanities, and Social Sciences offers a comprehensive program of student advisement intended to help students transfer, register, and meet graduation requirements. Although most students will be advised in their major department, all students with special questions regarding their academic programs and progress toward their degrees should contact the Assistant Dean for Student Services. The Assistant Dean can also provide information regarding the transfer of credit from other institutions.

Students interested in applying to UALR who intend to major or minor in a field in this college are also encouraged to consult the College of Arts, Humanities, and Social Sciences student services. Non-degree-seeking students who need help selecting courses for personal enrichment are also invited to meet with the Assistant Dean. The office of the College of Arts, Humanities, and Social Sciences is in Fine Arts 210. The office is open from 8:00 a.m. until 5:00 p.m. and for extended hours by appointment. Call (501) 569-3350 or (800) 340-6509.

Interested students can also access the “Student Resources” page of the AHSS website, or e-mail arbell@ualr.edu.

Internships

The internship program allows the student to integrate traditional academic work with real world experience. Internships are defined within the academic department. Admissions and other requirements are set by each department. For more information, contact the academic department through which the internship is desired.

Cooperative Education

UALR participates in cooperative education programs with public and private agencies. Students attend classes part time or on an alternating basis while participating in a paid and credit-bearing internship. For more information contact the Office of Cooperative Education at (501) 569-3584.

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<th>Departments</th>
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<tr>
<td>• Bachelor of Fine Arts in Art</td>
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<td><strong>Department of English</strong></td>
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<td>• Bachelor of Arts in English</td>
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<td><strong>Department of History</strong></td>
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<td><strong>Department of Philosophy &amp; Interdisciplinary Studies</strong></td>
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<tr>
<td>• Bachelor of Fine Arts in Dance</td>
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<td>• Bachelor of Arts in Theatre Arts</td>
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The Department of Art, accredited by the National Association of Schools of Art and Design, offers undergraduate instruction leading to a baccalaureate degree in art (BA in Art) with tracks in art history, studio art, and art education. The art history track emphasizes all eras of western European art and selected non-Western subjects. The studio art track offers the breadth of a liberal arts degree while also providing students with foundational art making skills and development in a range of studio disciplines. The art history and studio art tracks in the BA in Art require a minor. The art education track prepares students for licensure to teach art at the kindergarten through secondary school level. The art education track requires a minor in Secondary Education.

A baccalaureate degree in fine art (BFA in Art) is available to students who are admitted to the program through a review process that includes portfolio and transcript review, a letter of purpose, and a short interview. For the current academic year requirements for the review process, see information posted on the art department web site, ualr.edu/art/. The BFA in Art has three tracks: fine art (studio art), applied design, and art education. The fine art track offers specialization or emphasis areas in drawing, painting, graphic design, illustration, photography, printmaking, and sculpture. The applied design track offers emphasis areas in furniture design, metals and functional ceramics. The art education track prepares students for licensure to teach art at the kindergarten through secondary school level as well as allowing these students to develop a BFA studio or applied design emphasis.

General Information

Courses in crafts, fibers, blacksmithing and museum studies are also offered. The department makes available numerous courses in art education, art history, and studio art for students not majoring in art who are interested in art electives. Minors are available in art history, studio art, photography, and digital graphics.

To enrich the instructional program, the department offers continuous exhibits in three galleries in the Fine Arts Building and enjoys a cooperative relationship with the Arkansas Arts Center. Four art student organizations, The Association of Student Artists, The Clay Guild, The Routery Club, and The League of Extraordinary Metalsmiths are available to any student artist.

Arkansas Arts Center

The Department of Art collaborates with the Arkansas Arts Center to offer cooperative programs that benefit the public and academic communities. The Arts Center serves as an important teaching resource by providing outstanding national and regional exhibitions. On occasion, special studio workshops are offered by respected visiting artists from throughout the United States. The museum studies course is taught at the Arkansas Arts Center by Arts Center Staff.

Art Advisors

The department has advisors for both undergraduate and graduate students. Incoming freshmen and transfer students should contact the department chair, Professor Thomas Clifton, tclifton@ualr.edu, for initial advising. Continuing undergraduates should contact Professors Marjorie Williams-Smith (mwsmit@ualr.edu), Jane Brown (jhbrown@ualr.edu), or Floyd Martin (fwmartin@ualr.edu) for assistance with their academic programs. Students interested in public school teaching should contact Professor Jeffrey Grubbs at (jgrubbbs@ualr.edu). Undergraduate students who have completed a minimum of 100 academic credits should contact Professor Aj Smith (ajsmith1@ualr.edu). Prospective or current students may also call the art department at (501) 569-3182 to contact an advisor.
Transfer Students

Students transferring to UALR who intend to major in art should contact the department before enrolling to arrange for advising. Students may be required to take additional hours in areas where deficiencies are noted.

Transfer students must complete at least nine hours of their studio concentration at UALR. For example, a student who has 15 hours accepted in transfer credit for painting must complete an additional nine hours of painting at UALR if painting is the studio concentration.

Senior Show for BA in Art/Art Track

Studio majors in the last semester of their senior year in the BA in Art degree are required to register for ARST 4397, Capstone in the Visual Arts. As part of course requirements, students will prepare a group exhibition of their work. The senior show will be scheduled by the gallery curator, and must be approved by the student’s emphasis advisor, academic advisor, the gallery curator, and the department chairperson. The Department of Art, with student approval, occasionally selects outstanding student work to add to its teaching collection.

Senior Show for BFA in Art/Fine Art, Applied Design, and Art Education Tracks

BFA students in the last two semesters of their senior year are required to register for ARST 4394 and ARST 4395, BFA Projects 1 and 2, which are taken in consecutive semesters. In the final semester BFA students in the fine art and applied design tracks also register for ARST 4397, Capstone in the Visual Arts. For students in the art education track, their student teaching functions as the capstone experience. As part of course requirements, students will prepare an exhibition of their work. The senior show will be scheduled by the gallery curator, and must be approved by the student’s emphasis advisor, academic advisor, the gallery curator, and the department chairperson. Each student must also give an oral presentation in the form of a PowerPoint presentation before the faculty. The oral presentation will be scheduled and approved by the ARST 4395 faculty of record, emphasis advisor, and, if appropriate, also by the gallery curator. The Department of Art, with student approval, occasionally selects outstanding student work to add to its teaching collection.

Studio Art Work

Students retain copyright to all two-dimensional, three-dimensional, time-based, and electronic art work created in the Department of Art; they grant a non-exclusive license to exhibit, display, reproduce, perform, or adapt these works at the discretion of the faculty. Works left in departmental facilities at the end of any semester or summer session may be removed or discarded at the discretion of the faculty.

Senior Portfolio for BFA Majors

As part of a BFA student’s capstone requirements, studio majors will prepare a portfolio of 20 images documenting their senior show and other work, along with a written artist’s statement (minimum one page). Portfolio images are presented in a CD format and delivered to the gallery curator. This portfolio must be approved by the ARST 4395 faculty of record, the emphasis advisor and department chair. The portfolio will be due one week before the last class day, and will become the property of the Department of Art.

Senior Paper for BA in Art/Art History Majors

Art history majors in the last semester of their senior year are required to register for ARHA 4397 Capstone in Art History. As part of capstone requirements, students will write a senior paper, which will also be given orally. The paper must be approved by the student’s major advisor, ARHA 4397 faculty of record, academic advisor, and the art history coordinator. The oral presentation may be in the form of a public lecture, presentation to a class, or a paper at a scholarly meeting.

Senior Portfolio for Art History Majors

Art history majors enrolled in ARHA 4397 are required to prepare a portfolio of their senior paper and three other papers written for classes while at UALR. This portfolio must be approved by the major advisor, ARHA faculty of record, and the art history coordinator. The portfolio will be due one week before the last class day, and will become the property of the Department of Art.

No grade less than C will be accepted in any art course required within any art major or minor.

Minor in Art History

A minor in art history consists of 18 hours in art history, including ARHA 2310, 2311, 2312, and 9 of electives, excluding ARHA 2305.

Minor in Studio Art

A minor in studio art consists of 15 hours, to include 3 hours of drawing, 3 hours of design, and 3 hours of prerequisites for upper-level study, and 6 hours of upper-level electives in studio work.

Art History Students/Studio Art Minor

Students who pursue the art history track may choose to minor in studio art. Since ARST 1310 Basic Drawing, ARST 1315 Two-Dimensional Design, and ARST 2315 Three-Dimensional Design are included in the art history major, students choosing a studio art minor will also complete ARST 2310 Figure Drawing, and two upper-level studio art courses. These hours may be in one discipline (e.g. Painting Fundamentals 1 and Painting Fundamentals 2) or selected emphasis areas (e.g. Painting Fundamentals 1 and Introduction to Photography).

Minor in Digital Graphics

The minor in digital graphics is open to all majors and makes it possible for non-degree seeking students and non-art majors to select an industry specific minor in the arts. The curriculum for the minor consists of 15 hours in studio art, including 1315, 2318, 3385, 3386, and 4348.

Minor in Photography

The minor in photography is open to all majors. The curriculum for the minor consists of 15 hours in studio art, including ARST 3370, 3371, and three courses from 4370, 4371, 4372, 4373, and 4315 (photography).
Art Courses as Electives

Studio Art

Non-art majors may elect to take studio art foundations courses numbered ARST 1310, 1315, 2310, 2315, and 2318. Upon completion of prerequisites, students may enroll in any of the Studio Foundation courses (e.g., ARST 3320 Painting Fundamentals 1, 3360 Introduction to Sculpture, 3370 Introduction to Photography, etc.) on either a pass/fail or grade basis. Although prerequisites are recommended, the following courses may be taken without prerequisites: ARAD 3310 Intro to Furniture, ARAD 3320 Intro to Metalsmithing & Jewelry, ARAD 3350, Introduction to Ceramics, ARST 3320 Painting Fundamentals 1, and ARST 3370 Introduction to Photography.

Art History

Students who have training in related disciplines that prepare them for advanced art history courses (for example, history, English, and religious studies), may elect advanced courses in art history without taking ARHA 2310 and 2311. Students in doubt about their preparedness for art history should consult an art history instructor.

Secondary Teacher Licensure

Contact Dr. Jeffrey Grubbs in the Department of Art about the curriculum.

Degree Requirements

Floyd Martin, coordinator

The B.A. in art/art history track is for students especially interested in the history, theory, and criticism of the visual arts. The major will provide a solid foundation for students who wish to pursue the master or PhD programs in art history that are necessary for careers in university teaching, research, and the museum field. For those pursuing other interests, the major in art history, which is decidedly a liberal arts field, encourages development of analytical and critical viewing and writing skills useful in such careers as law, medicine, and business.

Students should plan carefully and check the long-range schedule of course offerings with the art history coordinator if interested in a particular course. ARHA 2310 Survey I and 2311 Survey II are offered fall and spring. Upper-level courses are normally offered once every two years.

Bachelor of Arts in Art

Art History Track

The undraped human figure is a significant subject within the studio art curriculum.

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit (See page 25 for requirement details.)

Core (44 hours)
See page 25 for requirement details. (It is recommended that RHET 1311, RHET 1312, HIST 1311, and HIST 1312 be taken before or concurrently with ARHA 2310 and ARHA 2311.)

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (45 hours)
No grade less than ‘C’ will be accepted within the major.

Studio Prerequisites (9 hours)
ARST 1310 Basic Drawing
ARST 1315 Two-Dimensional Design
ARST 2315 Three-Dimensional Design

Art History Foundation (9 hours)
ARHA 2310 Survey of the History of Art I
ARHA 2311 Survey of the History of Art II
ARHA 2312 Survey of Non-Western Art

Methods and Theory course (3 hours)
ARHA 4300 Studies in the History of Art

Period Courses (select 12 hours)
ARHA 3304 Medieval Art
ARHA 4304 Ancient Art
ARHA 4305 Italian Renaissance Art
ARHA 4306 Renaissance Art in Northern Europe
ARHA 4307 Eighteenth and Nineteenth-Century Art in Europe
ARHA 4308 Twentieth-Century Painting, Sculpture, and Graphic Arts Since 1945
ARHA 4384 Baroque Art
ARHA 4387 Late Nineteenth- and Early Twentieth-Century Art in Europe

Seminar and Special Topics course (select 3 hours)
ARHA 4385 Seminar in Italian Renaissance and Baroque Art
ARHA 4386 Problems in Northern European Renaissance and Baroque Art
ARHA 4388 Problems in Modern Art
ARHA 4310 Special Topics in Art History

Art History Electives (6 hours)
One non-Western area upper-level art history course
Any upper-level art history course

Capstone-Art History (3 hours)
ARHA 4397 Capstone in Art History

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

It is recommended that at least one general elective course be a foreign language course beyond the Intermediate I level.
Bachelor of Arts in Art
Art Education Track

The undraped human figure is a significant subject within the studio art curriculum.

General: 126 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit (See page 25 for requirement details.)

Core (44 hours)
See page 25 for requirement details. (It is recommended that RHET 1311, RHET 1312, HIST 1311, and HIST 1312 be taken before or concurrently with ARHA 2310 and ARHA 2311.)

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (64 hours)
No grade less than ‘C’ will be accepted within the major.

Studio Prerequisites (15 hours)
ARST 1310 Basic Drawing
ARST 1315 Two-Dimensional Design
ARST 2310 Figure Drawing
ARST 2315 Three-Dimensional Design
ARST 2318 Computer Applications in Art

Art History Foundation Courses (12 hours)
ARHA 2310 Survey of the History of Art I
ARHA 2311 Survey of the History of Art II
Two upper-level art history electives

Studio Art Foundation Courses (27 hours)
ARAD 3350 Introduction to Ceramics
ARST 3310 Drawing: Creative Invention
ARST 3312 Contemporary Craft
ARST 3320 Painting Fundamentals I
ARST 3330 Printmaking Basics
ARST 3340 Introduction to Graphic Design or ARST 3380 Introduction to Illustration
ARST 3360 Introduction to Sculpture
ARST 3370 Introduction to Photography
Applied Design (ARAD) or Studio Art (ARST) Electives (3 hours)

Art Education (10 hours)
ARED 3316 Teaching Art in the Secondary School
ARED 3345 Public School Art
ARED 4325 Foundations of Art Education
ARED 4194 Student Teaching Seminar**

Minor (18 hours)
Secondary Education Courses
SCED 3210 Instructional Skills**
SCED 3110 Instructional Skills Practicum**
SCED 4321 Teaching Diverse Adolescents**
SCED 4122 Classroom Management**
SCED 4123 Adolescents w/Special Needs**
SCED 4124 Adolescent Diversity Practicum**
SCED 4330 Reflective Teaching & Professionalism**
TCED 4600 Student Teaching/Clinical Experience** (concurrent with ARED 4194 Student-Teacher Seminar)**Praxis I must be passed before enrolling in SCED, TCED, and ARED 4194 courses. GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to being graduated.

Unrestricted General Electives
Remaining hours, if any, to reach 126 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in Art
Studio Art Track

The undraped human figure is a significant subject within the studio art curriculum.

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit (See page 25 for requirement details.)

Core (44 hours)
See page 25 for requirement details. (It is recommended that RHET 1311, RHET 1312, HIST 1311, and HIST 1312 be taken before or concurrently with ARHA 2310 and ARHA 2311.)

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (45 hours)
No grade less than ‘C’ will be accepted within the major.

Studio Prerequisites (15 hours)
ARST 1310 Basic Drawing
ARST 1315 Two-Dimensional Design
ARST 2310 Figure Drawing
ARST 2315 Three-Dimensional Design
ARST 2318 Computer Applications in Art

Art History Foundation Courses (9 hours)
6 hours from Survey Courses:
ARHA 2310 Survey of the History of Art I
ARHA 2311 Survey of the History of Art II
ARHA 2312 Survey of Non-Western Art
3 hours upper-level art history course

Studio Art Foundation Courses (12 hours)
6 hours of Two-Dimensional courses:
ARST 3310 Drawing: Creative Invention
ARST 3320 Painting Fundamentals I
ARST 3330 Printmaking Basics
ARST 3340 Introduction to Graphic Design
ARST 3370 Introduction to Photography
ARST 3380 Introduction to Illustration
6 hours of Three-Dimensional courses:
ARAD 3310 Introduction to Furniture Design
ARAD 3320 Introduction to Jewelry and Metalsmithing
ARAD 3330 Introduction to Fiber Design
ARAD 3340 Introduction to Blacksmithing
ARAD 3350 Introduction to Ceramics
ARAD 3360 Introduction to Sculpture

Upper Level Art Studio Electives (6 hours)
Two upper-level courses in art studio or applied design (ARST and/or ARAD)

Capstone (3 hours)
ARED 4397 Capstone in the Visual Arts (Group Senior Show, Exhibition of recent art)

Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Fine Arts in Art
Art Education Track

The undraped human figure is a significant subject within the studio art curriculum.

**General:** 144 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**
See page 25 for requirement details. (It is recommended that RHET 1311, RHET 1312, HIST 1311, and HIST 1312 be taken before or concurrently with ARHA 2310 and ARHA 2311.)

**Second Language Proficiency (0-9 hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (82 hours)**
No grade less than ‘C’ will be accepted within the major.

**Studio Prerequisites (15 hours)**
ARST 1310 Basic Drawing
ARST 1315 Two-Dimensional Design
ARST 2310 Figure Drawing
ARST 2315 Three-Dimensional Design
ARST 2318 Computer Applications in Art

**Art History Foundation and Upper-level Courses (12 hours)**
ARHA 2310 Survey of the History of Art I
ARHA 2311 Survey of the History of Art II
6 hours upper-level art history course

**Studio Art / Applied Design Foundation Courses (27 hours)**
ARAD 3350 Introduction to Ceramics
ARST 3310 Drawing: Creative Invention
ARST 3312 Contemporary Craft
ARST 3320 Painting Fundamentals I
ARST 3330 Printmaking Basics
ARST 3340 Introduction to Graphic Design
or ARST 3380 Introduction to Illustration
ARST 3360 Introduction to Sculpture
ARST 3370 Introduction to Photography

**Applied Design (ARAD) or Studio Art (ARST) Electives (3 hours)**
Advancement to BFA

Advancement to BFA program via portfolio and transcript review following the completion of 15 hours of Studio Art Prerequisites, 6 hours of Art History and 3 hours of Studio Foundations in one’s intended studio emphasis.

Upper level art studio courses in emphasis beyond the beginning studio art foundation course (12 hours)

Select 12 hours from one of the following emphasis sequences.

**Fine Art:**
Drawing: ARST 4310, 4311, 4312, 4315 (APD/Drawing)
Painting: ARST 3321, 3320, 3321, 3323, 3324, 3415 (APD/Painting)
Printmaking: ARST 3331, 3330, 3331, 3332, 3315 (APD/Printmaking)
Graphic Design: ARST 3341, 3340, 3341, 3348, 3315 (APD/Graphic Design)
Sculpture: ARST 3361, 3360, 3361, 3362, 3363, 3315 (APD/Sculpture)
Photography: ARST 3371, 3370, 3371, 3372, 3373, 4374, 4315 (APD/Photography)
Illustration: ARST 3381, 3385, 3386, 3380, 3381, 4315 (APD/Illustration)

**Applied Design:**
Furniture Design: ARAD 3310, 3310, 3311, 3312, 3313, 3314, 3315 (APD/Furniture-woodwork)
Ceramics: ARAD 4350, 4351, 4352, 4353, 4354, 3415 (APD/Ceramics)
Metals: ARAD 3320, 3340, 3340, 3320, 3321, 3322, 3323, 3324, 3415 (APD/Metals)

**Art Education (10 hours)**
ARED 3316 Teaching Art in the Secondary School
ARED 3345 Public School Art
ARED 4325 Foundations of Art Education
ARED 4194 Student Teaching Seminar**

**BFA Projects 1 & 2 (6 hours)**
ARST 4394 BFA Thesis Project 1
ARST 4395 BFA Thesis Project 2

**Minor (18 hours)**

**Secondary Education Courses**
SCED 3210 Instructional Skills**
SCED 3110 Instructional Skills Practicum**
SCED 4321 Teaching Diverse Adolescents**
SCED 4122 Classroom Management**
SCED 4123 Adolescents w/Special Needs**
SCED 4124 Adolescent Diversity Practicum**
SCED 4330 Reflective Teaching & Professionalism**
TCED 4600 Student Teaching/Clinical Experience** (concurrent with ARED 4194 Student-Teacher Seminar)

**Praxis I must be passed before enrolling in SCED, TCED, and ARED 4194 courses. GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to being graduated.

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Fine Arts in Art
Fine Art Track or Applied Design Track

The undraped human figure is a significant subject within the studio art curriculum.

General: 120 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (It is recommended that RHET 1311, RHET 1312, HIST 1311, and HIST 1312 be taken before or concurrently with ARHA 2310 and ARHA 2311.)

Second Language Proficiency (Not Required)

Major (72 hours)
No grade less than ‘C’ will be accepted within the major.

Studio Prerequisites (15 hours)
ARST 1310 Basic Drawing
ARST 1315 Two-Dimensional Design
ARST 2310 Figure Drawing
ARST 2315 Three-Dimensional Design
ARST 2318 Computer Applications in Art

Art History Foundation and Upper-level Courses (15 hours)
ARHA 2310 Survey of the History of Art I
ARHA 2311 Survey of the History of Art II
ARHA 2312 Survey of Non-Western Art
6 hours upper-level art history course

Studio Art / Foundation Courses (18 hours)
12 hours upper-level 2D Studio courses for emphasis
6 hours upper-level 3D Studio courses for emphasis in a two-dimensional studio discipline; 6 hours for a in a two-dimensional studio discipline; 12 hours for a three-dimensional studio discipline emphasis three-dimensional studio discipline emphasis

ARST 3310 Drawing: Creative Invention
ARST 3312 Contemporary Craft
ARST 3320 Painting Fundamentals 1
ARST 3330 Printmaking Basics
ARST 3340 Introduction to Graphic Design
ARST 3360 Introduction to Sculpture
ARST 3370 Introduction to Photography
ARST 3380 Introduction to Illustration
ARAD 3310 Introduction to Furniture Design
ARAD 3320 Introduction to Metalsmithing & Jewelry
ARAD 3330 Introduction to Fiber Design
ARAD 3340 Introduction to Blacksmithing
ARAD 3350 Introduction to Ceramics

Advancement to BFA
Advancement to BFA program via portfolio and transcript review following the completion of 15 hours of Studio Art Prerequisites, 6 hours of Art History and 3 hours of Studio Foundations in one’s intended studio emphasis.

Upper level art studio courses in emphasis beyond the beginning studio art foundation course (12 hours)
Select 12 hours from one of the appropriate 2D or 3D emphasis sequences.

Two-Dimensional Studio sequences:
Drawing: ARST 4310, 4311, 4312, 4315 (APD/Drawing)
Painting: ARST 4321, 4320, 4321, 4323, 4324, 4315 (APD/Painting)
Printmaking: ARST 3331, 4330, 4331, 4332, 4315
(APD/Printmaking)
Graphic Design: ARST 4341, 4340, 4344, 4348, 4315
(APD/Graphic Design)
Photography: ARST 3371, 4370, 4371, 4372, 4373, 4374, 4315
(APD/Photography)
Illustration: ARST 3381, 4380, 4381, 4385, 4386, 4315
(APD/Illustration)

Three-Dimensional Studio sequences:
Furniture Design: ARAD 3310, 4310, 4311, 4312, 4313, 4314, 4315
(APD/Furniture-woodwork)
Ceramics: ARAD 4350, 4351, 4352, 4353, 4354, 4315
(APD/Ceramics)
Metals: ARAD 3320, 3340, 4340, 4320, 4321, 4322, 4323, 4324, 4315
(APD/Metals)
Sculpture: ARST 3361, 4360, 4361, 4362, 4363, 4315
(APD/Sculpture)

Upper-level Studio art elective: ARAD or ARST (3 hours)

Capstone or Internship in selected emphasis (3-6 hours)
ARST 4397 Capstone: Studio Art
ARAD 4398 or 4698 Applied Design Internship
ARST 4315 APD/Cooperative Education Internship

BFA Projects 1 & 2 (6 hours)
ARST 4394 BFA Thesis Project 1
ARST 4395 BFA Thesis Project 2

Unrestricted General Electives (4 hours)
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Courses in Studio Art (ARAD-Applied Design Track)

ARAD 3310 Introduction to Furniture Design
A beginning course in the fundamentals of furniture design and construction. Students will design multiple furniture items and develop working drawings and scale models; learn basic material selection; and employ appropriate wood joinery and finishing. The course will require the use of hand and power tools while constructing a basic freestanding bench and table. Three credit hours.

ARAD 3320 Introduction to Jewelry and Metalsmithing
This course is an introduction to principle techniques involved in jewelry making and metalsmithing. Basic fabrication, forging, forming, connections (hot and cold), surface treatments, and finishing methods will be covered. An emphasis will be placed on the students’ mastery of problem solving, layout and design, and attention to craftsmanship in the execution of their projects. Visual presentations covering practicing smiths and historic trends will accompany the course curriculum to expose students to past and contemporary methods and ideologies in the field of jewelry and metalsmithing. Through discussions and critiques students will expand their ability to effectively speak about their work and constructively evaluate the work of their peers. The skills acquired in this course will provide the foundation for subsequent ideas and techniques related to the field of metalsmithing and jewelry. Three credit hours.

ARAD 3330 Introduction to Fiber Design
A beginning course in the fundamentals of fiber design. This course explores traditional and contemporary techniques and processes on fabric and other fiber surfaces and will introduce students to basic surface design techniques as well as basic loom and off loom weaving. Students will design and construct several samples and objects utilizing the materials and methods demonstrated throughout the course. Three credit hours.

ARAD 3340 Introduction to Blacksmithing
Prerequisites: ARST 2315 and ARST 3360. This course will focus on basic blacksmithing techniques such as how to light a coal fire, connecting multiple pieces of stock using traditional blacksmithing processes, basic skills and a working knowledge of how to operate properly all equipment in the studio. Three credit hours.

ARAD 3350 Introduction to Ceramics
This course will be a thorough survey of basic hand building and wheel throwing processes, making additions such as handles and spouts through a traditional and functional focus. Creative process, critical thinking and the development of design skills are also important elements of this course. Learning how to load and fire kilns and competency in basic glaze and clay formulation and application are also emphasized. Three credit hours.

ARAD 4310 Case Furniture Design
Prerequisite: ARST 2315, ARAD 3310. An advanced course in furniture design and construction. Students will be introduced to basic wood box and cabinet design and construction. Students will design multiple furniture items and develop working drawings and scale models, practice appropriate material selection; and employ complex wood joinery and finishing. The course will require the use of hand and power tools while constructing a free standing shelving unit and a wall mounted or free standing cabinet with doors and drawers. Three credit hours.

ARAD 4311 Complex Furniture Design
Prerequisite: ARST 2315, ARAD 3310. An advanced course in complex furniture design and construction. Students will be introduced to ergonomic considerations in the design and construction of a chair. Students will develop working drawings and a scale model; practice appropriate material selection; and employ complex wood joinery and appropriate finishing. The course will require the use of hand and power tools while constructing a chair of unique or historical design integrating at least one material in addition to wood. Three credit hours.

ARAD 4312 Plywood & Composites
Prerequisite: ARAD 4310. An advanced course in Furniture Design where students will be introduced to working with non-solid wood materials in sheet-goods format such as plywood, MDF and other composites as well as the different techniques involved in veneering. Different bending techniques with appropriate molds and a vacuum bag will be covered as well. Students will design and construct several furniture objects by developing working drawings and a scale model; practice appropriate material selection; and employ complex and appropriate joinery and finishing. The course will require the use of hand and power tools while constructing a piece of furniture utilizing sheet goods and/ or veneer. Three credit hours.

ARAD 4313 Lighting & Small Objects
Prerequisite: ARAD 4311. An advanced course in Furniture Design that will introduce students to the basics of lighting and small functional object design and construction. Students will design and construct several functional pieces, by developing working drawings and a scale model; practice appropriate material selection; and employ complex and appropriate joinery and finishing. Three credit hours.

ARAD 4314 Alternative Furniture Media
Prerequisite: ARAD 4311. An advanced course in furniture design and construction that will introduce non-wood materials associated with furniture making. Examples are: metal, fiberglass, mold-making and casting non-metals such as concrete, plaster and plastics as well as other alternative and experimental materials. Students will design and construct several furniture pieces by developing working drawings and a scale model; practice appropriate material selection; and employ complex and appropriate joinery and finishing. The pieces will utilize one or several of the techniques and materials covered in the course. Experimentation and material research is expected. Three credit hours.

ARAD 4320 Surface Methods in Metals
Prerequisite: ARAD 3303. This course is a continuation of techniques studied in ARAD 3320. Additional surface development techniques will be introduced and greater focus will be placed on a combination of surface treatments and stone setting methods. The resulting pieces will be directed to thoughtfully consider a relationship to the body. The new embellishment techniques will help students to continue to advance their technical skills and build a stronger sensitivity to the integration of innovative approaches and disparate materials in a cohesive manner for objects of adornment. Three credit hours.

ARAD 4321 Metal Hollowware & Color
Prerequisite: ARAD 4320. This course will build upon the technical and conceptual foundation created in ARAD 4320. Within this course students will be introduced to various sheet forming techniques and finishing processes in the production of small-scale formed elements for jewelry, vessel forms, and small-scale sculptural objects derived from forming processes. Forming techniques covered in this class will consider direct methods of shaping flat sheet and techniques forming various shaped pieces. Investigation into the coloring techniques including patination and enameling will be considered as methods of embellishment for the forms created by the students. Continued critical discussion and increased technical rigor of this course will help students to gain a more comprehensive ability to conceive their ideas and effectively execute them. Three credit hours.
ARAD 4322 Small Metal Casting
Prerequisite: ARAD 4320. Casting will be explored as a method for developing three-dimensional forms in metal derived from constructed and found models. Students will investigate direct and machine enabled methods of mold making and casting. Additional processes surrounding mass production of components will be considered in this course. Alternative methods and materials for casting will also be introduced in this course. An emphasis will be placed on combining previously learned techniques with newly acquired techniques in a method that is visually cohesive and technically proficient. Three credit hours.

ARAD 4323 Metal Mechanisms
Prerequisite: ARAD 4321. This course will include a more extensive exploration of complex fabrication methods and development of mechanisms to be integrated into jewelry and metal objects derived from fabrication, forming, and casting techniques. Students will explore methods of hollow construction, mechanisms, and complex surface embellishments. Technical proficiency will be reinforced, as the projects in this course require more precise design and complex construction. A conceptual basis for the assignments in this course will require students to gain an awareness of thoughtfully integrating form, function and aesthetics as they give their ideas physical form. Three credit hours.

ARAD 4324 Complex Metal Vessels
Prerequisite: ARAD 4321. Students in this intensive course will design and execute a large-scale functional vessel or series of vessels. The course will reinforce technical competency and an exploration of personal design skills in the creation of preliminary forms and finished piece for this course. An emphasis will be placed on research of historic and contemporary examples, design, appropriate technical methods, and selection and integration of materials. Students will be responsible for a comprehensive and sophisticated integration of previously acquired techniques to conceive and execute the final pieces. Three credit hours.

ARAD 4340 Intermediate Blacksmithing
Prerequisites ARAD 3340. This course will further explore the many possibilities of what blacksmithing can be in contemporary forge work. An emphasis will be placed on the traditional use of techniques whenever possible. Various hot methods: fabrication processes, welding and limited use of machining methods will be explored. Three credit hours.

ARAD 4350 Wheel Throwing
Prerequisite: ARAD 3350 and ARST 2315. Further study in the medium of clay, with emphasis on the use of the potter’s wheel. Introduction of reduction glazes and firing of the kiln. Three credit hours.

ARAD 4351 Advanced Handbuilding
Prerequisite: ARAD 4350. For the ceramics major who wants to gain greater proficiency in a variety hand building techniques, such as coil, slab and extrusions, and mold designing and making. Three credit hours.

ARAD 4352 Production Ceramics
Prerequisite: ARAD 4350 or ARAD 4351. This course focuses on the exploration of functional ceramics through a variety of advanced forming and finishing techniques to assist with a production oriented studio methodology. By using traditional based processes, students will build a greater proficiency in ceramic firing, and clay and glaze technology for functional ware. Three credit hours.

ARAD 4353 Kiln Construction
Prerequisite: ARAD 4350. A thorough study of the history of kiln building over time and cultures. The course will include the designing of a kiln for a specific ceramic process, an introduction to brick laying, welding, arch forming, and other kiln fabrication skills, and the building of a student designed kiln. Students will also make enough work to fill and test the kiln. Three credit hours.

ARAD 4354 Ceramics Sculpture
Prerequisite: ARAD 3351. Emphasis on clay as an expressive medium, stressing sculptural rather than functional concepts. Continued experience with glazes and kiln firing. Three credit hours.

ARAD 4398, 4698 Applied Design Internship
Prerequisite: Departmental approval. This experience will provide students with a supervised, practical experience to put into practice the skills learned in the academic setting. It will develop aspects of the art profession appropriately learned in real work situations. It will provide an opportunity for art students to work under the supervision of a professional artist. Three or six credit hours.

ARAD 4115, 4215, 4315 Advanced Problems in Design
Experimental materials and techniques in applied design, including the correlation of visual design elements with those of various multidimensional work not usually covered by normal course offerings. Course content, subtitle, and organization vary. One, two, or three credit hours.

Courses in Art Education (ARED)

ARED 3245 Public School Art
An investigation of elementary-level art education focusing on materials and methods for teaching art history, art criticism, and studio production to children. Attention is given to the relationship of the visual arts to general education, developmental growth of children in art, curriculum planning, and current issues in art education. This course is offered for preregistration teachers in the College of Education’s Early Childhood Education program. Two credit hours.

ARED 3316 Teaching Art in the Secondary School
Methods and materials for teaching art in the secondary school. (See “Secondary Teacher Licensure”) Three credit hours.

ARED 3345 Public School Art
An investigation of elementary-level art education focusing on materials and methods for teaching art history, art criticism, and studio production to children. Attention is given to the relationship of the visual arts to general education, developmental growth of children in art, curriculum planning, and current issues in art education. Three credit hours.

ARED 4325 Foundations in Art Education
A survey of the history of art education with an emphasis on the changing philosophies, theories of learning, and the subsequent goals and objectives made apparent in curriculum development. Dual-listed in the UALR Graduate Catalog as ARED 5325. Three credit hours.

ARED 4194, 4294, 4394 Independent Study
Prerequisite: consent of instructor. Research on a subject selected in consultation with the instructor. Admission to this course must be approved by the art education advisor before registration. May be taken for one, two, or three credit hours.

Courses in Art History (ARHA)

Prerequisites for all advanced courses in the history of art: ARHA 2310 for ancient and medieval; ARHA 2311 for all other courses; or consent of instructor. ARHA 2310 must precede ARHA 2311. Upper-level courses are offered no more frequently than once every two years; they are offered on an irregular basis during summer terms.

Each art history credit hour requires three clock hours of work each week. One hour is scheduled in class and the additional two hours are scheduled outside class.

The undraped human figure appears as a significant subject throughout much of art history and is evident within the art history curriculum.
ARHA 2305 Introduction to Visual Art
Recommended prerequisite: RHET 1311. Introduction to the creative process and history of art, vocabulary and descriptive terms used in the visual arts, and how to write about them. Attendance at arts events is required. Students will learn through writing, reading, discussing, listening, and participating in critical thinking and problem-solving activities. Fulfills core requirement in aesthetics along with student’s choice of either MUHL 2305 and THEA 2305. Three credit hours. (ACTS Course Number ARTA 1003)

ARHA 2310 Survey of the History of Art I
Survey of the art history from prehistoric times to the Renaissance. Three credit hours. (ACTS Course Number ARTA 2003)

ARHA 2311 Survey of the History of Art II
Prerequisite: ARHA 2310 or consent of instructor. Survey of the history of art from the Renaissance through the contemporary period. Three credit hours. (ACTS Course Number ARTA 2103)

ARHA 2312 Survey of Non-Western Art
Prerequisite: ARHA 2310 or consent of instructor. Introduction to art outside the Western European tradition which focuses on the major artistic traditions of India, China, Japan, Africa, Oceania, and the Americas. Emphasis is placed on recognition of major works of art and artistic style and what these reveal about the cultures that produced them. Three credit hours.

ARHA 3301 American Art
Prerequisite: ARHA 2311 or consent of instructor. American art from the colonial period to early twentieth century. Three credit hours.

ARHA 3302 History of Photography and Related Visual Arts
Prerequisite: ARHA 2311 or consent of instructor. Major figures in the history of art who used the camera as their medium, beginning with the nineteenth-century figures such as Daguerre and Fox-Talbot and continuing to the present. Emphasis is placed on the analysis of photographs, motion pictures, and video works in terms of style, iconography, social history, and connoisseurship. Three credit hours.

ARHA 3304 Medieval Art
Prerequisite: ARHA 2310 or consent of instructor. Early Christian, Byzantine, Carolingian, Ottonian, Romanesque, and Gothic art. Three credit hours.

ARHA 3309 History of Design
Prerequisite: ARHA 2311 or consent of instructor. This course will present major artists and movements in the history of textiles, ceramics, metals, wood, and graphic design, with emphasis on the modern period. Three credit hours.

ARHA 4300 Studies in the History of Art
Prerequisite: ARHA 2311 or consent of instructor. A seminar for advanced students involving research on topics in art history, criticism, and aesthetics selected for study by students in consultation with art history faculty. Dual-listed in the UALR Graduate Catalog as ARHA 5300. Three credit hours.

ARHA 4301 Art and Architecture Study Tour
Prerequisite: ARHA 2311 or consent of instructor. Travel study tour involving directed reading and research on objects to be seen during the tour. Three credit hours.

ARHA 4302 Art Museum Studies
Prerequisite: 6 hours of upper-level art history courses or permission of instructor. An introduction to art museum operation, topics covered will include the acquisition, management, and care of works of art, exhibition planning and installation, administration functions, educational and community roles of museums, finance and fundraising. The goals of the course are to familiarize students with the day-to-day work of an art museum and to engage them in critical thinking about the broader context in which it operates. Three credit hours.

ARHA 4304 Ancient Art
Prerequisite: ARHA 2310 or consent of instructor. A study of the history of ancient art and architecture with emphasis on the Greek and Roman periods. Three credit hours.

ARHA 4305 Italian Renaissance Art
Prerequisite: ARHA 2311 or consent of instructor. Painting, sculpture, and architecture in Italy from c. 1300 to c. 1600. Dual-listed in the UALR Graduate Catalog as ARHA 5305. Three credit hours.

ARHA 4306 Renaissance Art in Northern Europe
Prerequisite: ARHA 2311 or consent of instructor. Painting, sculpture, and architecture in Europe during the eighteenth and nineteenth centuries. Dual-listed in the UALR Graduate Catalog as ARHA 5306. Three credit hours.

ARHA 4307 Eighteenth and Nineteenth-Century Art in Europe
Prerequisite: ARHA 2311 or consent of instructor. Discussion of art from the eighteenth, nineteenth, or twentieth centuries. Taught by the seminar method. Three credit hours.

ARHA 4308 Twentieth-Century Painting, Sculpture, and Graphic Arts Since 1945
Prerequisite: ARHA 2311 or consent of instructor. Painting, sculpture, and graphic arts from 1945 to the present. Dual-listed in the UALR Graduate Catalog as ARHA 5308. Three credit hours.

ARHA 4309 History of Arkansas Architecture
Prerequisite: ARHA 2311 or consent of instructor. The development of architecture in Arkansas from its origins to the present. Dual-listed in the UALR Graduate Catalog as ARHA 5309. Three credit hours.

ARHA 4315 Modern Architecture
Prerequisite: ARHA 2305. A study of the major architectural developments in European and American architecture from 1900 to the present. The focus will be upon European architecture from 1900 to 1930, and upon architecture in the U.S. from 1930 to 1970. Consideration will be given to both technological innovations and to issues current in architectural design, such as preservation and adaptive reuse of historic buildings. Dual-listed in the UALR Graduate Catalog as ARHA 5315. Three credit hours.

ARHA 4316 Baroque Art
Prerequisite: ARHA 2311 or consent of instructor. Painting, sculpture, and architecture in northern Europe (especially the Low Countries, France, and England), from the end of the Gothic period through the Reformation. Dual-listed in the UALR Graduate Catalog as ARHA 5316. Three credit hours.

ARHA 4384 Baroque Art
Prerequisite: ARHA 2311 or consent of instructor. Painting, sculpture, and architecture in northern Europe (the Netherlands, France), Spain, and Italy from 1600 to c. 1725. Dual-listed in the UALR Graduate Catalog as ARHA 5384. Three credit hours.

ARHA 4385 Seminar in Italian Renaissance and Baroque Art
Prerequisite: ARHA 2311 or consent of instructor. Directed research for advanced students on various problems of Italian Renaissance or Baroque art from c. 1300 to 1725. Taught by the seminar method. Three credit hours.

ARHA 4386 Problems in Northern European Renaissance and Baroque Art
Prerequisite: ARHA 2311 or consent of instructor. Directed research for advanced students on various problems of Northern European art. Taught by the seminar method. Three credit hours.

ARHA 4387 Late Nineteenth- and Early Twentieth-Century Art in Europe
Prerequisite: ARHA 2311 or consent of instructor. Painting, sculpture, graphic arts, and architecture from the postimpressionist period until WW II. Dual-listed in the UALR Graduate Catalog as ARHA 5387. Three credit hours.

ARHA 4388 Problems in Modern Art
Prerequisite: ARHA 2311 or consent of instructor. Discussion of selected problems in painting, sculpture, or architecture of the eighteenth, nineteenth, or twentieth centuries. Taught by the seminar method. Three credit hours.
ARST 4397 Capstone in Art History
Prerequisite: 21 hours in art history, including ARHA 4300. Offered Fall and Spring. Required for art history majors. An independent research project under faculty guidance. The project must be presented in writing and orally. Normally taken in a student’s last semester. Three credit hours.

ARHA 4110, 4210, 4310 Special Topics in Art History
Special topics for the study of individual artists, or particular periods, geographic areas, or media in the history of art, especially areas not covered by normal course offerings. Course content, subtitle, and organization vary. One, two, or three credit hours.

ARHA 4191, 4291, 4391 Independent Study
Prerequisite: consent of Department of Art faculty. Open only to superior students who seek to do special research on a topic selected in consultation with the instructor. One, two, or three credit hours.

Courses in Studio Art – Fine Art Track (ARST)

Each studio art credit hour requires four clock hours of work each week. Two of these hours are scheduled and the additional hours occur outside of scheduled class time in the open studio workspace. Each studio is scheduled to be open for these additional hours.

The undraped human figure is a significant subject within the studio art curriculum.

ARST 1310 Basic Drawing
A beginning course in drawing with attention to the formal elements (Elements of Art and Principles of Design). Emphasis is placed on drawing realistically using line and/or value. Topics to be covered are: the use of line, creation of volume through the use of value, expressive mark-making, composition, and perspective. Three credit hours.

ARST 1315 Two-Dimensional Design
Introduction to concepts of design in visual art. Emphasis on two-dimensional forms. Recommended for non-art majors who want to take some studio art courses. Three credit hours.

ARST 2310 Figure Drawing
Prerequisite: ARST 1310. Introduction to figure drawing; emphasis on anatomy, composition, and orientation to media. The undraped human figure is the primary subject. Three credit hours.

ARST 2315 Three-Dimensional Design
Prerequisite: ARST 1315. Concepts of three-dimensional design. Emphasis on both form and content. Three credit hours.

ARST 2318 Computer Applications in Art
Problems in design utilizing computer technologies for the visual artist with an emphasis on proficiency in computer applications, design and computer-aided imagery. Three credit hours.

ARST 3310 Drawing: Creative Invention
Prerequisite: ARST 2310. An advanced course with emphasis on invention and personal creative investigation. Three credit hours.

ARST 3312 Contemporary Crafts
An introductory course introducing students to the four areas of Contemporary Craft: wood, metal, ceramics and fiber through demos and assignments. The course will focus on developing proper technique associated with each material, developing a personal design aesthetic through the making of one-of-a-kind objects as well as the development of a high level of craftsmanship. This course will require some use of hand and power tools while students develop items from each area. Three credit hours.

ARST 3320 Painting Fundamentals 1
Prerequisites: ARST 1310, 1315, or consent of instructor. An introduction to oil painting by working primarily from still life and landscape with emphasis on both representational and expressive approaches. Three credit hours.

ARST 3321 Painting Fundamentals 2
Prerequisite: ARST 3320, or consent of instructor. Continuation of previous study with emphasis on more complex and varied assignments. Three credit hours.

ARST 3330 Printmaking Basics
Prerequisites: ARST 1310 and ARST 1315. Introduction to basic woodcut, linoleum cut, etching, and lithography. Three credit hours.

ARST 3331 Lithography Techniques
Prerequisites: ARST 3330. A complete study in lithography using a variety of drawing media and methods to include Bavarian Limestone and aluminum plate processes. Three credit hours.

ARST 3340 Introduction to Graphic Design
Prerequisites: ARST 1310, 1315, 2318; or consent of instructor. Instruction in the aesthetic, creative, and technical aspects of graphic design. Focus is given to the application of the elements of art and the principles of design to graphic design solutions, as well as effective use of typography. Three credit hours.

ARST 3341 Typography
Prerequisite: ARST 3340 or consent of instructor. An exploration of the art and practice of type as a tool for visual communication; this course covers the history of typography, type anatomy, terminology, and technical handling. Critical thinking and problem solving skills will be encouraged with the practical application of design principles. Three credit hours.

ARST 3360 Introduction to Sculpture
Basic additive, subtractive and reproductive processes in problems using figurative clay modeling, stone carving, mold making, plaster casting, concrete casting and metal casting. Three credit hours.

ARST 3361 Figurative Clay Sculpture
Prerequisite: ARST 2310. Exploration of the human head and figure using basic additive and subtractive techniques. Students will sculpt from draped and undraped models in terra cotta clay to be fired. Three credit hours.

ARST 3370 Introduction to Photography
An introduction to the basic technical skills for black and white digital photography. The course also emphasizes the visual organization of an effective photograph. Prerequisite for all other photography courses. No previous experience is necessary, but students must provide their own single-lens-reflex digital camera. Three credit hours.

ARST 3371 Intermediate Photography
Prerequisite: ARST 3370. Exploration of current modes of photographic expression with an emphasis on content. Students continue to develop both their black and white technical skills and their ability to visually organize a photograph. Prerequisite to all advanced photography offerings. Three credit hours.

ARST 3380 Introduction to Illustration
Prerequisites: ARST 1310, 1315 and 2310. Instruction in the use of traditional media and visualization techniques for illustrative purposes. Projects encourage visual thinking skills using black and white and color media including wet and dry process with an emphasis placed on achieving technical proficiency. A variety of media and surfaces will be explored. Three credit hours.

ARST 3381 Book Illustration
Prerequisite: ARST 3380 or consent of instructor. Instruction in the production of artwork for the book publishing industry. Discussion topics and projects develop students’ skills in interpreting stories and manuscripts with unique visual imagery. Three credit hours.

ARST 3385 Vector Graphics for Illustrators and Designers
Prerequisite: ARST 1310, 1315 and 2318 or consent of the instructor. A study of computer illustration software covering the most popular vector illustration programs in use today. Emphasis on aesthetic judgment and technical proficiency in developing works of art for illustration and design portfolio. Three credit hours.
ARST 3386 Digital Imaging for Illustrators and Designers
Prerequisite: ARST 1310, 1315 and 2318 or consent of the instructor. Studio illustration and design techniques in Adobe Photoshop. Emphasis is placed on aesthetic judgment, technical proficiency and production techniques. Three credit hours.

ARST 4310 Drawing: Concept Development
Prerequisite: ARST 3310 or consent of instructor. Exploration of perceptual and conceptual issues in drawing, including study of contemporary artists and trends to stimulate self-directed projects. Three credit hours.

ARST 4311 Drawing: Contemporary Trends
Prerequisite: ARST 4310 or consent of instructor. A continuation of issues introduced in ARST 4310. Students will continue to expand their work in the context of current issues, aesthetic trends, and the current cultural milieu. Three credit hours.

ARST 4312 Drawing: Personal Content
Prerequisite: ARST 4311 or consent of instructor. The focus of this course is the continuance of previous research and self-directed study in drawing and preparation of works for the senior exhibition. Three credit hours. This course may be repeated once for an additional three credit hours.

ARST 4115, 4215, 4315 Advanced Problems in Design
Experimental materials and techniques in two- and three-dimensional design, including the correlation of visual design elements with those of various multidimensional work not usually covered by normal course offerings. Course content, subtitle, and organization vary. One, two, or three credit hours.

ARST 4320 Painting: Personal Content 1
Prerequisite: ARST 3321, or consent of instructor. An introduction to self-directed study with emphasis on various painting concepts while focusing on the establishment of a personal direction in painting. Three credit hours.

ARST 4321 Painting: Personal Content 2
Prerequisite: ARST 4320, or consent of instructor. Continuation of previous research and self-directed study in painting emphasizing a more advanced level. Three credit hours.

ARST 4323 Painting: Personal Content 3
Prerequisite: ARST 4321, or consent of instructor. Continuation of previous research and self-directed study in preparation for the BFA Project and the Senior Exhibition. Three credit hours.

ARST 4324 Painting Portfolio
Prerequisite: ARST 4323, or consent of instructor. Emphasis on the continuing creation of a body of work in preparation for advancement to the next academic level; graduate school, career, etc. Three credit hours.

ARST 4330 Color Intaglio-Etching Basics
Prerequisites: ARST 3330. Exploration of intaglio-etching basic color separation processes and multiple-plate printing techniques. Three credit hours.

ARST 4331 Advanced Color Intaglio-Etching
Prerequisite: ARST 4330. Instruction in advanced color etching-intaglio techniques to include traditional and current trends in printingmaking. Three credit hours.

ARST 4332 Mixed Media Color Printmaking
Prerequisite: ARST 4331. Instruction in advanced color techniques to reflect current trends and innovative approaches to printmaking. Three credit hours.

ARST 4340 Print Design
Prerequisite: ARST 3341 or consent of instructor. Instruction in varied aspects of graphic design theory, with emphasis on visual communication, client restrictions, and deadlines. Students also explore the production aspects of graphic design and technical proficiency in creating print-ready digital mechanicals. Three credit hours.

ARST 4341 Package Design
Prerequisite: ARST 3341 or consent of instructor. Advanced graphic design practice with exploration of 3-D forms and surface graphics. Students encounter design problems outside the scope of traditional print layouts by designing containers, point-of-purchase, and prototypes. Three credit hours.

ARST 4342 Graphic Design Methodologies
Prerequisite: ARST 4341 or consent of instructor. A study of advanced graphic design theory challenging students to address alternative design problems through conceptual and technical innovation. Exploration of traditional and new media techniques with print layout, multiple component design, advanced typography, motion graphics through both individual and collaborative projects. Three credit hours.

ARST 4348 Web Design
Prerequisite: ARST 2318. Concentration on the design, development, implementation, and updating of web sites utilizing compliant HTML and CSS code. Lectures, in-class demonstrations, research, readings, and coursework educate students in a variety of structural and navigational approaches. Emphasis is placed on site structure, interface design, design aesthetics, and usability along with the use of industry standard computer applications. Three credit hours.

ARST 4360 Metal Casting Techniques
Prerequisite: ARST 3360. Design and assembly of small and large-scale functional objects and sculpture to cast in metal. Class focuses on complete process from inception of design to finished cast product. Different casting, pattern making, spruing, and finishing techniques are explored. Three credit hours.

ARST 4361 Stone Carving Techniques
Prerequisite: ARST 3360. Explore the basics of stone carving through making a clay model, then transcribing that model into stone using hand tools, electrical power tools, air tools and finishes to realize a concept. Three credit hours.

ARST 4362 Concrete Casting and Building
Prerequisite: ARST 3360. Explore basic techniques of building armatures for concrete fabrication; methods and materials for concrete casting; researching additives for structural strength; coloring agents for surface and body coloration with stains and paints; basic fabrication techniques for model building; and design approaches for assembly of small and large scale functional objects and sculpture. Three credit hours.

ARST 4363 Metal Welding and Fabrication
Prerequisite: ARST 3360. Explore basic techniques of welding using oxy-acetylene, electric arc, TIG, MIG; cutting methods using plasma torch and oxy-acetylene; basic fabrication techniques for model building; and design approaches for assembly of small and large scale functional objects and sculpture. Three credit hours.

ARST 4370 Professional Photo Techniques
Prerequisites: ARST 3370, ARST 3371. Overview of portrait and commercial photography with an emphasis on studio lighting techniques. Three credit hours.

ARST 4371 Alternative Photo Methods
Prerequisites: ARST 3370, ARST 3371. Exploration of alternative methods of photographic image making. Assignments challenge each student to question traditional techniques and materials. Three credit hours.

ARST 4372 Digital Color Photography
Prerequisites: ARST 3370, ARST 3371. Introduction to digital color photography with an emphasis on the technical skills required. Students explore the theory and expressive uses of color as it pertains to photography. Three credit hours.

ARST 4373 Advanced Problems in Photography
Prerequisites: ARST 4370, ARST 4371, ARST 4372 or permission of the instructor based upon demonstrated equivalent experience. The further exploration of concepts introduced in other photography courses. Individual assignments based on each student’s previous experience and interest. May be repeated for additional credit. Three credit hours.

ARST 4374 Large-Format Photography
Prerequisites: ARST 3370, ARST 3371. Introduction to large-format photographic techniques and aesthetics. Camera and accessories are provided by the department. Three credit hours.
ARST 4380 Concept Illustration
Prerequisite: ARST 3381 or consent of instructor.
Instruction in the production of conceptual artwork for the movie and videogame industry. Discussions and projects include preliminary work, visualization methods and the creation of artwork in both traditional and digital media. Three credit hours.

ARST 4381 Editorial Illustration
Prerequisite: ARST 3380 or consent of instructor. Instruction in the production of conceptually based artwork for editorial publication. Discussion topics include visual problem solving with individual and expressive imagery. Hands-on projects allow for a variety of approaches to the creation of finished artwork. Three credit hours.

ARST 4192, 4292, 4392 Independent Study
Open only to the advanced student who seeks to do special research on a subject selected in consultation with the instructor. Admission to this course must be approved by the art department before registration. One, two, or three hours credit.

ARST 4394 BFA Thesis Project 1
Prerequisites: Completion of 4000 level coursework in emphasis area and acceptance to BFA Program. First term of advanced research, concept development and art production in the student’s concentration area. Students develop independent projects supervised by thesis advisor and meet with BFA peers at regular intervals for critique and discussion. Specific course requirements are contracted with the BFA thesis adviser. Cannot be taken concurrently with BFA Thesis Project 2. Three credit hours.

ARST 4395 BFA Thesis Project 2
Prerequisites: Completion of 4000 level coursework in emphasis area, acceptance to BFA Program and BFA Thesis Project 1. Final term of advanced research, concept development and art production in the student’s concentration area. Students continue to meet with Faculty and BFA peers at regular intervals for critique and discussion. Specific course requirements are contracted with the BFA thesis adviser. Final requirements include a portfolio of work, artist’s statement and an exhibition of the thesis project work in a format appropriate to the subject area. Cannot be taken concurrently with BFA Thesis Project 1. Three credit hours.

ARST 4397 Capstone: Studio Art
This course provides the capstone experience for senior art studio majors. Course includes career analysis, gallery portfolio presentation, photographing art, packing and shipping art, a mock interview or a project proposal presentation and the development of a resume, an artist statement and a gallery talk. Three credit hours.
The Department of English offers instruction in literature, linguistics, creative writing, and film, and is the home of the Masters Degree in Interdisciplinary Studies (MAIS). The creative writing courses are intended for students who wish to develop sophisticated writing skills. The department’s linguistics courses offer instruction in the scientific study of language and literary form. The literature program includes such varied subjects as African-American literature, film, Shakespeare, and short fiction. These courses are intended not only for English majors and minors but also for students preparing for careers in such fields as law, business, government, and medicine. Through rigorous assessment, the English Department maintains current and relevant programs.

General Information

William G. Cooper, Jr., Honors Program in English

The William G. Cooper, Jr., Honors Program in English is sustained by an endowment created by the family of Dr. William G. Cooper, Jr., in honor of his distinguished service on the Little Rock University Board of Trustees and UALR Board of Visitors.

The William G. Cooper, Jr., Honors Program in English is an option in the English major available to exceptional students. A student with a solid GPA and a particular interest in English may apply for the program any time after completing 45 hours of course work. Students accepted in the honors program are invited also to apply for one of the stipends provided by the William G. Cooper, Jr., endowment.

The honors option in English has 33 hours of course work, which includes the 16 hours required for all English majors: ENGL 3330, ENGL 3331 or ENGL 3311, ENGL 3312, ENGL 3321, ENGL 3322, ENGL 3323, or ENGL 4199. Cooper Honors students must take ENGL 4260 (Honors tutorial), ENGL 4270 (Honors project), and ENGL 4350 (Cooper Honors seminar). This seven-hour block counts towards the upper-level English electives required to fill out the 33 hours of course work for the major. The honors courses comprise intensive learning projects, in-depth discussion, and closely directed research projects. Students in the honors program must maintain a 3.25 GPA overall and a 3.5 in their English courses to remain in good standing.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (33 hours)

Program Foundation Courses (16 hours)
ENGL 3330 Approaches to Literature
ENGL 3331 Major British Writers I
ENGL 3332 Major British Writers II ENGL 3311 History of the English Language
or ENGL 3312 Grammar, Morphology, and Syntax
ENGL 3321 American Literature I
or ENGL 3322 American Literature II
or ENGL 3323 American Literature III
ENGL 4199 Career Perspectives

Upper-Level ENGL Elective Courses
(17 hours—up to six hours may be applied from ENGL 4100 Independent Study, ENGL 4200 Independent Study, or ENGL 4390 Internship)

Minor (18 hours)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in English

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.
(See page 36 for details)

Core (44 hours)
See page 25 for requirement details.
Bachelor of Arts in English
Creative Writing Emphasis

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (33 hours)
Prerequisite: ENGL 2336 Introduction to Creative Writing

Program Foundation Courses (16 hours)
ENGL 3330 Approaches to Literature
ENGL 3331 Major British Writers I
ENGL 3332 Major British Writers II
ENGL 3311 History of the English Language
or ENGL 3312 Grammar, Morphology, and Syntax
ENGL 3321 American Literature I
or ENGL 3322 American Literature II
or ENGL 3323 American Literature III
ENGL 4199 Career Perspectives

Additional Creative-Writing Requirements (9 hours)
ENGL 3318 Fiction Writing I
or ENGL 3319 Poetry Writing I
ENGL 4398 Fiction Writing II
or ENGL 4399 Poetry Writing II
ENGL 3346 Form and Theory of Fiction
or ENGL 4369 Form and Theory of Poetry

One Additional Upper-level Creative Writing Workshop (3 hours)
ENGL 3318 Fiction Writing I
ENGL 3319 Poetry Writing I
ENGL 3320 Screenwriting
ENGL 4398 Fiction Writing II
ENGL 4399 Poetry Writing II
ENGL 4301 (Advanced Creative Writing Project)

One Upper-level Course in Twentieth-century Literature (3 hours)

Two Additional Hours of Upper-level English Courses (2 hours)

Note: Students may retake an upper-level creative-writing workshop class one time

Minor (18 hours)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in English
English Education Track

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (41 hours)

Program Foundation Courses (21 hours)
ENGL 3330 Approaches to Literature
ENGL 3331 Major British Writers I
ENGL 3332 Major British Writers II
ENGL 3311 History of the English Language
ENGL 3312 Grammar, Morphology, and Syntax
ENGL 3360 Special Topics (when taught as Studies in World Literature)
ENGL 4199 Career Perspectives
ENGL 4202 Teaching Literature in the Secondary Schools

American Literature (3 hours)
ENGL 3321 American Literature I
ENGL 3322 American Literature II
ENGL 3323 American Literature III

African American Literature (3 hours)
ENGL 3326 African American Literature I
ENGL 3327 African American Literature II

Additional Competencies Beyond Required English Hours (5 hours)
RHET 4202 Teaching Writing in the Secondary Schools
RHET 3317 Introduction to Nonfiction Writing

Adolescent Literature (3 hours)
ENGL 4375 Adolescent Literature
RHET 1312 (when topic is Writing About Children and their Literature)
RHET 4347 (when the topic is Writing for Children and Families)
SCED 4316 Adolescent Literature

Upper-Level English Electives (6 hours)

Minor (18 hours)

Secondary Education
SCED 3110 Instructional Skills & Assessment Practicum**
SCED 3210 Instructional Skills & Assessment**
SCED 4122 Adolescent Diversity Practicum**
SCED 4123 Adolescents with Special Needs**
SCED 4124 Classroom Management**
SCED 4321 Teaching Diverse Adolescents**
SCED 4330 Reflective Teaching and Professionalism**
TCED 4600 Student Teaching**
**Students must also have passed Praxis I before enrolling in SCED and TCED courses. A GPA of 2.65 is required for admission to the education program as well as the completion of 60 hours, completion of MATH 1302 or 1315, RHET 1311 and 1312, and SPCH 1300 with a grade of C or above in all Block courses. To complete the Secondary Education Minor, students must also pass the Praxis II pedagogy exam (Principles of Learning and Teaching) and all required Praxis II content exams within their licensure area.

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.


Minor in English

A minor in English requires 18 hours, which may include either ENGL 2337 World Literature or ENGL 2338 World Literature Themes. The remaining hours must be upper-level courses in English.

Minor in Creative Writing

A minor in Creative Writing requires 18 hours selected from the creative writing course list. Three of these hours may include ENGL 2336 Introduction to Creative Writing. The remainder must be upper-level hours.

Minor in Linguistics

A minor in Linguistics requires 21 hours, including ENGL 3313, at least 9 hours of linguistics courses chosen from ENGL 3311, 3312, 3314, 4315, 4317, and 4370 or 4100/4200 (when the topic is in linguistics); up to 6 hours of foreign language elective courses; and up to 9 hours of approved elective coursework chosen from ANTH 4316, AUSP 3360, AUSP 4366, PHIL 3320, PSYC 2310, PSYC 2340, 4312, LANG 4322, LANG 4323, LANG 4324, LANG 4325, and SOCI 3381.

Minor in Film

The English Department participates in an interdisciplinary minor in film. Minors must take MCOM 2306 Introduction to Motion Pictures, and 15 hours of film courses in at least two disciplines. Interested students should contact the School director or the film coordinator in the School of Mass Communications.

Courses in Literature (ENGL)

ENGL 2335 Introduction to Literature
For the beginning student of literature. Topics vary and include selections from poetry, fiction, and drama. Three credit hours.

ENGL 2337 World Literature
Prerequisite: completion of the first year writing requirement. Study of selected texts reflecting various Western and non-Western literary heritages and traditions. Assigned works represent several national literatures, with at least one major text from each of four periods (antiquity, medieval, early modern, and the modern period) and from a minimum of three literary genres. Three credit hours. (ACTS Course Number ENGL 2113)

ENGL 2338 World Literature Themes
Prerequisite: completion of the first year writing requirement. This class addresses the same competencies as ENGL 2337, but through exploration of a specific topic. Either ENGL 2337 or 2338 satisfies the core requirement, but they are distinctive courses and both may be taken for credit. Three credit hours.

ENGL 2339 Mythology
An introduction emphasizing Greek and Roman mythology and its influence on Western culture. Three credit hours.

ENGL 3321 American Literature I
Selected works from the earliest writings to American romanticism. Three credit hours.

ENGL 3322 American Literature II
Selected works from the period beginning with the romantic movement and ending with the Civil War. Three credit hours.

ENGL 3323 American Literature III
Selected works from the period beginning with the Civil War and ending in 1912. Three credit hours.

ENGL 3324 Arkansas Writers
A survey of Arkansas writers of the nineteenth and twentieth centuries. Three credit hours.

ENGL 3325 Literature of the South
Presentation of representative southern writers. Emphasis on writers of the southern renaissance of the twentieth century. Three credit hours.

ENGL 3326 African-American Literature I
African Americans in American culture from the colonial period to the twentieth century as expressed through the literary works of African-American writers. Three credit hours.

ENGL 3327 African-American Literature II
The writings of representative African American authors from 1900 to the present, with emphasis on the literature of Africa, the West Indies, and African-America. Three credit hours.

ENGL 3330 Approaches to Literature
Required for English majors. The course introduces the basics of literary research, critical methods, and critical writing. Though not a prerequisite for any other English course, students are strongly recommended to take this class early. Three credit hours.

ENGL 3331 Major British Writers I
Major writers of English literature to the mid-eighteenth century, including Chaucer, Shakespeare, and Milton. Three credit hours.

ENGL 3332 Major British Writers II
Major writers of English literature from the mid-eighteenth century to the present. Three credit hours.

ENGL 3340 Women in Literature
Literature by and about women, with emphasis on works by nineteenth- and twentieth-century writers. Three credit hours.

ENGL 3344 Modern Drama
A close analysis of selected British, American, and European plays. Three credit hours.

ENGL 3346 The Form and Theory of Fiction
Survey of the forms, techniques, and theories of fiction, emphasizing the views of fiction writers. Three credit hours.

ENGL 3360 Selected Topics in Literature
Special topics in literature, varying each semester. Topics cross geographic and temporal lines and usually deal with a specific genre or a theme. Three credit hours.

ENGL 3361 The Film as Literature
An introduction to the capabilities of film as literature, using many genres as illustration. Three credit hours.

ENGL 3370 Fundamentals of Folklore
The folklore process among Americans and other cultural groups. The dynamics of the folk event, the theory and applications of folklore, and practical field experience. Three credit hours.

ENGL 4100, 4200 Independent Study
Prerequisites: senior standing and 18 hours of English. Open to English majors only. For the student of superior ability who seeks special research in the field. One or two credit hours.

ENGL 4150, 4250 Honors Seminar
Prerequisite: consent of program director. Focused study of topics in language and literature. One or two credit hours.

ENGL 4160, 4260 Honors Tutorial
Prerequisite: consent of program director. Independent study of topics in literature and language. One or two credit hours.

ENGL 4199 Seminar in Career Perspectives
Required for majors. A capstone course for English majors for purposes of developing and assessing their career, educational, and personal goals. One credit hour.

ENGL 4202 Teaching Literature in Secondary Schools
A methods course team-taught by faculty from the Departments of English and Rhetoric and Writing. Topics to be addressed include making classroom presentations, managing small-group work, responding to student writing, evaluating and using secondary school literature and composition textbooks, approaches to teaching literature, and writing as a way to reading. To be taken in conjunction with RHET 4202. Dual-listed in the UALR Graduate Catalog as ENGL 5202. Two credit hours.
ENGL 4270 Honors Project
Prerequisite: consent of program director. Honor projects are typically scholarly or creative works. Program advisors and director must approve all projects. Two credit hours.

ENGL 4311 Medieval Literature
Students will discuss, analyze, and research works in English literature from A.D. 450 to 1500 as well as works in translation from medieval German, Latin, and romance literature. Students with credit for ENGL 4311 may take ENGL 5311 with instructor approval. Three credit hours.

ENGL 4312 Chaucer
Selected works including Troilus and Criseyde and The Canterbury Tales. Three credit hours.

ENGL 4313 Arthurian Literature
A study of Arthurian chronicle and romance from Celtic beginnings through Malory, with examination of nineteenth- and twentieth-century developments of the legend. Three credit hours.

ENGL 4314 Topics in Medieval and Renaissance Literature
Students will discuss, analyze and research selected topics in medieval and Renaissance literature. Students with credit for ENGL 4314 may enroll in ENGL 5314 with instructor’s approval. Three credit hours.

ENGL 4321 English Renaissance Drama
Major playwrights, including Marlowe, Kyd, Jonson, Beaumont, Fletcher, and Webster; excluding Shakespeare. Three credit hours.

ENGL 4324 Shakespeare
Selected works, including the major comedies and tragedies. Three credit hours.

ENGL 4325 Teaching Shakespeare Through Performance
Pedagogical focus on teaching plays, particularly Shakespeare’s, in the elementary and secondary schools by using performance activities. Special emphasis on the four most often taught Shakespearean plays (Romeo and Juliet, Julius Caesar, Macbeth, Hamlet); one comedy and one history play included but titles may change each time the course is offered. Dual-listed in the UALR Graduate Catalog as ENGL 5325. Three credit hours.

ENGL 4328 Seventeenth-Century Literature
English poetry and prose from 1600 to 1660, with emphasis on Donne and Milton. Three credit hours.

ENGL 4331 Restoration and Early Eighteenth-Century Literature
Restoration drama; Dryden, Swift, early Pope. Three credit hours.

ENGL 4332 Mid and Late Eighteenth-Century Literature
Later Pope, the novel, Johnson. Three credit hours.

ENGL 4341 Victorian Literature
Representative writers, including Tennyson, Browning, Arnold, and Hopkins. Three credit hours.

ENGL 4345 Topics in Eighteenth Century Literature
Students will discuss, analyze, and research selected topics in British and American literature of the eighteenth century. Students with credit for ENGL 4345 may enroll in ENGL 5345 with instructor approval. Three credit hours.

ENGL 4350 Honors Seminar
This course is a focused examination of a variety of special topics in language and literature. Three credit hours.

ENGL 4351 British Novel I
Representative readings in the development of the British novel in the eighteenth and nineteenth centuries. Three credit hours.

ENGL 4352 British Novel II
Representative readings in the development of the British novel in the twentieth century. Three credit hours.

ENGL 4355 Readings in European Fiction
Representative readings in European fiction from the eighteenth century to the present. Three credit hours.

ENGL 4360 Topics in Modern Literature
Selected topics in modern literature. Three credit hours.

ENGL 4364 Modern Poetry
Representative readings in modern English and American poetry including works by Hopkins, Yeats, Frost, and Eliot. Three credit hours.

ENGL 4365 Modern Novel
Reading of American and British novels of the Modernist period. Three credit hours.

ENGL 4366 Contemporary Literature
Students will discuss, analyze, and research the major trends in fiction, poetry, and drama since 1945, with emphasis on British, American, and European writers. Students with credit for ENGL 4366 may enroll in ENGL 5366 with instructor approval. Three credit hours.

ENGL 4367 Short Story Survey
Wide reading of American and foreign short fiction. Three credit hours.

ENGL 4368 Literary Criticism
Students will discuss, analyze, and research the major literary theories, with emphasis on recent issues. Three credit hours.

ENGL 4369 The Form and Theory of Poetry
Survey of the forms, techniques, and theories of poetry, emphasizing the views of poets. Three credit hours.

ENGL 4370 Seminar in Language or Literature
Prerequisites: senior standing and consent of instructor. Selected topics in language or literature. May be repeated when topic differs. Three credit hours.

ENGL 4371 Advanced Folklore: Selected Topics
Selected topics such as native American traditions, folklore in Arkansas, trickster motifs in oral and written story. Three credit hours.

ENGL 4375 Adolescent Literature
In this course, students will read and discuss a wide variety of adolescent novels and adolescent short fiction (some written specifically for adolescents; others written from an adolescent perspective). Students with credit for ENGL 4375 may not take ENGL 5375. Three credit hours.

ENGL 4380 Studies in Major American Writers
The study of one major figure in American literature. Subject varies. Three credit hours.

ENGL 4381 American Fiction
Representative readings in the development of American fiction. Three credit hours.

ENGL 4384 American Poetry
Representative readings in American poetry from the beginnings to 1912. Three credit hours.

ENGL 4390 Internship
Prerequisites: junior standing, consent of instructor. Provides practical experience in a professional setting. Students work in a business, school, state agency, or similar location that offers opportunities to apply their academic background and skills. Course may be repeated for credit. Three credit hours.
Courses in Creative Writing (ENGL)

Creative writing courses (except ENGL 2336) may be repeated for credit one time.

ENGL 2336 Introduction to Creative Writing
Prerequisites: RHET 1311, 1312, or consent of instructor. Study and practice in the writing of fiction, poetry, and drama. Class discussion/workshop. Three credit hours. (ACTS Course Number ENGL 2013)

ENGL 3318 Fiction Writing I
Prerequisite: ENGL 2336 or consent of instructor. Study and practice in the writing of fiction. Class discussion/workshop and individual conferences. Three credit hours.

ENGL 3319 Poetry Writing I
Prerequisite: ENGL 2336 or consent of instructor. Study and practice in the writing of poetry. Class discussion/workshop and individual conferences. Three credit hours.

ENGL 3320 Screenwriting
Prerequisite: ENGL 2336. Individual work in dramatic writing for film and television. Class discussion and individual conferences. Three credit hours.

ENGL 3346 The Form and Theory of Fiction
See literature course listing.

ENGL 3311 History of the English Language
Development of the English language from the Old English period to the present. Three credit hours.

ENGL 3312 Grammar, Morphology, & Syntax
Studies in the structure of modern English. Three credit hours.

ENGL 4100, 4200 Independent Study
Prerequisites: senior standing, 18 hours of English. Open to English majors only. For the student of superior ability who seeks special research in the field. One or two credit hours.

ENGL 4202 Teaching Literature in Secondary Schools
A methods course taught by faculty from the Departments of English and Rhetoric and Writing. Topics to be addressed include making classroom presentations, managing small-group work, responding to student writing, evaluating and using secondary school literature and composition textbooks, approaches to teaching literature, and writing as a way to reading. To be taken in conjunction with RHET 4202. Dual-listed in the UALR Graduate Catalog as ENGL 5202. Two credit hours.

ENGL 4315 World Englishes
A study of national, regional, and social varieties of English with special attention to the political, cultural, and economic issues facing the use of English as a world language or lingua franca. Recommended prerequisite: ENGL 3311 or ENGL 3313. Dual-listed in the UALR Graduate Catalog as ENGL 5315. Three credit hours.

ENGL 4370 Seminar in Language or Literature
Prerequisites: senior standing, consent of instructor. Selected topics in language or literature. May be repeated when topic differs. Dual-listed in the UALR Graduate Catalog as ENGL 5370. Three credit hours.
The History Department program is designed to implement the following objectives:

• to prepare undergraduate majors for advanced training in history;
• to train students to teach in the secondary schools;
• to provide instruction for the University’s Core Courses in History (HIST) curriculum program, and
to actively engage with the wider community and to promote awareness of public history.

The History Department is committed to the on-going process of assessing the effectiveness of our programs and courses.

General Information

Major in History

The history major must complete Core Requirements (44 hours), Secondary Language Proficiency, and 36 credit hours of history, including HIST 1311, 1312, 2311, 2312, and at least 24 hours of upper-level history courses which must include HIST 4309. All students who are history majors must have C or greater in HIST 1311, 1312, 2311, 2312, or equivalent courses. The program must include at least six upper-level hours of United States history and at least six upper-level hours of non-United States history. Additionally, history majors with senior status (90 or more hours including UALR and transfer work) must take at least one three-hour capstone experience seminar prior to graduation.

All students are advised to take HIST 1311 and 1312 before taking upper-level courses in European history and HIST 2311 and 2312 before taking upper-level courses in American history. Students preparing to study history beyond the bachelor’s degree level are strongly advised to master at least one foreign language before graduation. Students preparing for advanced work should seek specific advising from a member of the department at their earliest opportunity.

Minor in History

A minor in history requires 18 hours, including HIST 2311*, 2312*, and 12 hours of upper-level history courses.

*Note: Also counts toward the core.

Secondary Teacher Licensure

See “Secondary Teacher Licensure” for details or consult the History Department Web Site.

History Honors Program

To graduate with Honors from the History Department, a student must have a 3.25 overall grade point average and a 3.5 in History courses. Honors students must also complete an Honors Thesis; students will take an Honors Thesis course (HIST 4322) that involves individual work with a faculty member, is worth 3 credit hours, and will count as part of the 36 hour requirement for the History Major. The thesis will be a research project done under the direction of one faculty member, and the topic must be approved by a Thesis Committee consisting of that faculty member and two others. A recommendation by the Thesis Committee is required for the student to graduate with Honors.
Bachelor of Arts in History

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-x hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (36 hours)
World History Surveys (6 hours)
HIST 1311 History of Civilization I (Also counts toward the core.)
HIST 1312 History of Civilization II (Also counts toward the core.)
US History Surveys (6 hours)
HIST 2311 US History to 1877 (Also counts toward the core.)
HIST 2312 US History since 1877 (Also counts toward the core.)
Methods Class (3 hours)
HIST 4309 The Historian's Craft
Capstone Seminar (3 hours)
Students are required to take one of the following:
HIST 4391 Seminar in US History
HIST 4393 Seminar in World History
HIST 4396 Seminar in Arkansas History
Program Electives (18 hours)
Upper-level US history electives (6 hours)
Upper-level Non-US history electives (6 hours)
Upper-level electives in either US or Non-US history (6 hours)
Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in History
Secondary Education

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-x hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (36 hours)
World History Surveys (6 hours)
HIST 1311 History of Civilization I (Also counts toward the core.)
HIST 1312 History of Civilization II (Also counts toward the core.)
US History Surveys (6 hours)
HIST 2311 US History to 1877 (Also counts toward the core.)
HIST 2312 US History since 1877 (Also counts toward the core.)
Arkansas History (3 hours)
HIST 4355 Arkansas History
Teaching Applications (3 hours)
HIST 4397 Teaching Applications
Capstone Seminar (3 hours)
Students are required to take one of the following:
HIST 4391 Seminar in US History
HIST 4393 Seminar in World History
HIST 4396 Seminar in Arkansas History
Program Electives (15 hours)
Upper-level US history electives (3 hours)
Upper-level Non-US history electives (6 hours)
Upper-level electives in either US or Non-US history (6 hours)
Minors
The following minors are mandatory for the History / Secondary Education program:

Minor in Social Studies (21-30 hours)
See page 50 for details.

Minor in Secondary Education (18 hours)
See page 50 for details.

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Note: Students earning the BA in History and Secondary Education must also pass the Praxis 1 and Praxis II exams.
Other Programs

Minor in Geography
Jess C. Porter, Coordinator

A geography minor consists of 18 hours, including 1311 Introduction to Physical Geography and 2312 Cultural Geography, plus 12 additional hours of geography courses. For more information, contact the coordinator at (501) 569-8730.

The following courses in geography may be used to complete the geography minor, to meet core curriculum requirements, and to meet part of the bachelor of arts in liberal arts program requirements.

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Minor in Race and Ethnicity

John Kirk, PhD, Chair and Donaghey Professor, History
Michael R. Twyman, Director, Institute on Race and Ethnicity
Advisors: John Kirk, PhD | John W. Miller, Jr. PhD

UALR History Department in Conjunction with the UALR Institute on Race and Ethnicity offers a minor in Race and Ethnicity.

- **Required courses (6 hours)**
  - RACE 2301 – Introduction to Race and Ethnicity
  - HIST/RACE 4356/5356 – History of Race and Ethnicity in the United States

-[Beginning 2012 – 2013 Academic year RACE 2301 will be offered in the fall semester and RACE/HIST 4356/5356 will be offered in the spring semester.]

**Elective courses**

(12 hours selected from the list below)

- ANTH 3312 North American Indians
- ANTH 4398 Race and Human Variation
- CRJU 3310 Race, Ethnicity, and Crime
- GEOG 2312 Cultural Geography
- MCOM 4384 Special Topics: Images of Minorities in the Media
- ENGL 3326 African American Literature I
- ENGL 3327 African American Literature II
- ENGL 4350 Black Women's Activism and Literature
- SOCI 3340 Experiences of Black Americans
- SOCI 3330 Minority Groups
- SOCI 4395 Special Topics: Native American History
- HIST 3355 American Civil War and Reconstruction 1848-1876
- HIST 3371 Colonial Latin America
- HIST 3380 The Indian in American History
- HIST 4327 Africa in World History
- HIST 4328 South Africa in World History
- HIST 4338 Holocaust
- HIST 4358/5358 Civil Rights Movement Since 1954
- HIST 4368 African American History to 1865
- HIST 4369 African American History from 1866
- HIST 4378 The History of U.S.-Latin America Relations
- PHIL 4373 Philosophy of Race
- MGMT 4391 Employment Law
- MUHL 3361 Jazz History and Styles
- SPAN 3335 Las Culturas de Las Americas
- SPCH 4312 Intercultural Communication

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Courses in Geography (GEOG)

GEOG 1311 Introduction to Physical Geography
Study of earth/sun relationships that produce the elements of weather, including temperature, precipitation, atmospheric pressure, and air circulation. Patterns of climate and their interrelationship with soil and vegetation systems. Study of major landform processes, which shape the earth’s surface, with specific reference to North America. Three credit hours.

GEOG 2310 World Regions
World regional patterns of population, natural resources, and economic activities with reference to the nature of regions and their characteristics. Regional patterns of Europe, North America, Latin America, Africa, and East and South Asia. Three credit hours. (ACTS Course Number GEOG 2113)

GEOG 2312 Cultural Geography
The nature, distribution, and development of various cultural systems as they interact with each other and with their environment. A study is made of spatial patterns in the elements of culture, including population, religion, language, political ideology, economic activities, and settlement. Examination of the processes that have changed the natural landscape to a cultural landscape. Three credit hours. (ACTS Course Number GEOG 2113)

GEOG 2320 Introduction to Geospatial Technologies
This course is designed to introduce a range of spatially-oriented technologies. In this class you will learn about a variety of geotechnology and gain hands-on experience using it. Geotechnologies include the global positioning system (GPS), satellite imagery, and geographic information systems (GIS). Students will be exposed to practical applications of these technologies that span both physical and social science realms. Three credit hours.

GEOG 3301 Geography of Europe
This course examines and analyzes the cultural and environmental geography of the European region. Topics include the geodemography of Europe with special attention placed on the challenges posed by low regional birth rates and high immigration, the opportunities and constraints associated with the uneven distribution of natural resources, and the paradox of ongoing regional integration and fragmentation in light of historical and contemporary geographic contexts. Three credit hours.

GEOG 3305 Environmental Conservation
Survey of the human environment with resources. Examination of major resources and their use with reference to North America and to Arkansas. Three credit hours.

GEOG 3307 Geography of Food
This course will focus on the importance of place and geography in the production, distribution and consumption of food. The role of culture and environment are critical in understanding why, what, how much, and where we eat. In the United States, we are increasingly removed from the farm and reliant upon processed foods, so understanding and appreciating the place of food becomes increasingly critical. Geographic concepts like nature-society relationships, spatial interconnections and patterns, and site and situation, will be applied to help us understand why food is produced and consumed where it is, by whom, and the changing nature of these relationships.

GEOG 3315 Geography of Arkansas
Study of Arkansas’ natural and cultural environments with emphasis on how various groups, past and present, interact with the state’s natural regions. Geologic, climate, soil, and vegetation patterns are examined. Settlement patterns; economic activities, including agriculture, forestry, mining, and industry; and population distributions are analyzed and placed together with the state’s natural regions. Three credit hours.
GEOG 3320 Urban Geography
Study of the urban landscape and the specific land uses found in United States cities. Current geographic pattern of industrial, commercial, residential, public, and recreational activities in our cities with reference to Arkansas. Three credit hours.

GEOG 4321 Geomorphology
See ERSC 4321. Dual listed in the UALR Graduate Catalog as GEOG 5321. Three credit hours.

GEOG 4300 Special Topics
Prerequisites: consent of instructor, nine hours of geography or an associated discipline that complements the seminar topic. Topics will be chosen on the basis of contemporary interest and demand and will be focused to provide an in-depth understanding of the issue. Dual listed in the UALR Graduate Catalog as GEOG 5300. Three credit hours.

GEOG 4311 History and Philosophy of Geography
Investigates the ways in which the subject of geography has been recognized, perceived, and evaluated, from its early acknowledgment in ancient Greece to its disciplined form in today’s world of shared ideas and mass communication. Includes an assessment of current geographic research. Three credit hours.

GEOG 4290, 4390 Independent Study
Prerequisites: 15 hours of geography including GEOG 1311, 2312, and consent of instructor. Research and reading in various areas of geography. Projects reflect student interest and career objectives along with departmental emphasis. Two or three credit hours.

GEOG 4397 Social Studies Teaching Applications
Social studies content linked with practical applications for classroom instruction. Content from history, geography, political science, sociology/anthropology, and psychology. Content modeled for prospective secondary education teachers to illustrate how content can be applied in the classroom. Critical components of each of the disciplines integrated into the content presentations and the demonstrated applications. Team taught. Three credit hours.

Courses in History (HIST)

HIST 1311 History of Civilization I
Recommended prerequisite: RHET 1311. The history of the world’s significant civilizations from their beginnings to approximately AD 1600: the development of integrated political, social, economic, religious, intellectual, and artistic traditions and institutions within each of those cultures; significant intercultural exchanges. Three credit hours. (ACTS Course Number HIST 1113)

HIST 1312 History of Civilization II
Recommended prerequisite: RHET 1311. The history of the world’s significant civilizations since approximately AD 1600: examination of the persistence of traditional civilizations and the changes in the world order due to the development of modern industrial society, modern science, and the nation state. Three credit hours. (ACTS Course Number HIST 1123)

HIST 1314 First-Year Colloquium in History
This course introduces students to the discipline of history through examining of a single topic chosen by the professor. Students will also learn basic research skills, gain experience in time management, and carry out a long-term group project. Furthermore, students will use the insights gained in the classroom to engage with the community around them through a service-learning project. Three credit hours.

HIST 2311 U.S. History to 1877
Description, analysis, and explanation of the major political, social, economic and diplomatic events through “Reconstruction.” Special attention is devoted to the cross-cultural development of three civilizations, Native American, European, and African, within the geographical context of the North American continent. Major topics for study include European colonial empires; the American Revolution; the Constitution of 1787; evolution of a national government, federal in system and republican in form; and the U.S.’s role in world affairs. Three credit hours. (ACTS Course Number HIST 2113)

HIST 2312 U.S. History since 1877
Description, analysis, and explanation of the political, social, economic and diplomatic events to the present time. Special attention is devoted to the forces of Modernity and the impact of cultural pluralism on traditional institutions. Major topics for study include industrialization; agrarianism; labor; immigration; reform movements; total and limited war; economic theory and practice; and the U.S.’s role in world affairs. Three credit hours. (ACTS Course Number HIST 2123)

HIST 3301 Ancient History and Thought
Social, intellectual, and cultural history of ancient Mesopotamian, Egyptian, Greek, and Roman peoples. Three credit hours.

HIST 3302 History of Ancient Greece
A political, constitutional, and social history of Greece from the Homeric Age to the fall of the Athenian Empire in 404 BC. Three credit hours.

HIST 3303 The Hellenistic Age
The study of Greek civilization from the fall of the Athenian Empire (404 BC) through the reign of Alexander the Great to the collapse of his successors’ kingdoms before the advance of Rome (c. 146 BC). Three credit hours.

HIST 3304 History of the Roman Republic
The history of the expansion of the city of Rome from a small village on the banks of the Tiber to a world empire. Three credit hours.

HIST 3305 The History of the Roman Empire
A history of the Roman Empire from the reign of Augustus and the rise of Christianity to the end of antiquity. Three credit hours.

HIST 3312 History of Medieval Civilization
A study of the interaction of the social class structure and Christianity in forming the institutions of medieval civilization (c. AD 1000-1350). Three credit hours.

HIST 3313 The Renaissance, 1300-1550
A study of urban and court life at the time of the Renaissance. Examines such themes as humanism, the arts, discovery, and gender issues in Italy and northern Europe. Three credit hours.

HIST 3315 Early Modern Europe, 1600-1815
Survey of major developments from the Thirty Years’ War through the French Revolution. Examines the role of international conflict, national state building, commercialization, the scientific revolution, and the enlightenment in the formation and disintegration of the Old Regime. Three credit hours.

HIST 3316 Europe in the Age of Revolution, 1789–1914
Survey of European history from the French Revolution to the outbreak of the First World War. Emphasis on revolutionary movements, nationalism, industrialization, class society, and imperialism. Three credit hours.

HIST 3317 Twentieth-Century Europe
World War I and its consequences; depression; totalitarianism; World War II; the reconstruction of Europe; the Cold War. Three credit hours.
HIST 3321 History of Britain to 1688
The period from the earliest times to the Glorious Revolution. Three credit hours.

HIST 3322 History of Britain since 1688
The period from the Glorious Revolution to the present. Three credit hours.

HIST 3323 British Empire
The political, social, and economic development of the British Empire, the foundations of the Commonwealth, and the emergence of the dominions and the dependent empire as autonomous units with the Commonwealth. Three credit hours.

HIST 3325 History of Russia to 1917
History of Russia from prehistoric origins through Kievian, Muscovite, and Tsarist periods with consideration of political, intellectual, economic, and religious factors. Emphasis on Tsarist policies. Three credit hours.

HIST 3326 The Soviet Union and Russia since 1917
Survey of major social, political, and cultural developments including the Russian Revolution, Stalinism, the Cold War, everyday life, the collapse of the Soviet Union, and the post-Soviet era. Three credit hours.

HIST 3328 Modern France
The French political community from the Old Regime to the Fifth Republic, with emphasis on the interrelationship of politics, class, and culture. Three credit hours.

HIST 3330 Early Modern Germany 1495–1806
Survey of the major social, political, and cultural developments in Germany from the Reformation to the French Revolution. Topics include political fragmentation and intra-German conflict, religious conflict, absolutism, the Enlightenment, the collapse of the Holy Roman Empire as well as everyday life, art, and literature. Three credit hours.

HIST 3331 Modern Germany since 1806
German history from the French Revolution to Re-Unification. Topics include nationalism and unification, revolutionary movements, industrialization and class society, Nazism and the Holocaust, post-war division, democratization and Europeanization, reunification, and the shifting nature of German identity. Three credit hours.

HIST 3336 Islam and the Modern Middle East
An examination of the role of Islam as the primary cohesive element in the social, political, and cultural development of the modern Middle East. Comparison and contrast of Western and Middle Eastern perspectives on relevant current issues. Same as RELS 3336. Three credit hours.

HIST 3337 History of Latin America: Colonial Period
Indian culture. Colonial European discovery, conquest, and colonial development; the Spanish colonial regime in the New World from 1492 to 1820; and wars of independence. Three credit hours.

HIST 3338 Recent America: The US, 1939-present
A history of the American people in recent times, including economic, social, and cultural developments as well as political, diplomatic, and military events. Three credit hours.

HIST 3339 American Civil War and Reconstruction, 1848–1876
The origins of the American Civil War, its course, and subsequent efforts at reconciling North and South. Emphasis on the social, economic, and cultural background to the war and its impact on American society. Three credit hours.

HIST 3340 Magic, Science, and the Occult from Antiquity to Newton
A survey of humans' attempts to explain and control the cosmos from antiquity to the emergence of modern science around 1700, including the contributions of pseudo-scientific, occult, and magical world-views; internal developments in the history of science; and the relationship between scientific thought and the historical context. Dual-listed in the UALR Graduate Catalog as HIST 5302. Three credit hours.
HIST 4303 The Roman Revolution
This seminar will examine the fall of the Roman Republic and the rise of the Roman Empire. Students in this seminar are expected to acquire a reasonable mastery of major events and developments of this transitional period and to demonstrate at least adequate skill in written analysis of this material. Dual-listed in the UALR Graduate Catalog as HIST 5303. Three credit hours.

HIST 4304 Alexander the Great
This undergraduate/graduate seminar will examine the career of one of the most interesting and important figures in world history. Alexander expanded the domain of Greek civilization from the Mediterranean and Aegean Seas to the lands of Afghanistan and India. Dual-listed in the UALR Graduate Catalog as HIST 5304. Three credit hours.

HIST 4305 Environmental History
Study of humanity’s interrelationship with the natural environment throughout history, with emphasis on historical factors relating to current environmental problems. Three credit hours.

HIST 4306 History with Objects
Prerequisite: HIST 2311, 2312 or consent of instructor based on individual student need and ability. The role of objects in U.S. History including how different academic disciplines study artifacts; how to identify, authenticate, and evaluate artifacts (using decorative arts to learn visual literacy); and the impact of objects (especially their manufacturing and marketing) on American life. Dual-listed in the UALR Graduate Catalog as HIST 5306. Three credit hours.

HIST 4309 The Historian's Craft
This course offers an introduction both to historical methods (how historians go about doing history) and to historiography (the study of the many ways in which historians have written about the past), through a focus on a single historical topic. Three credit hours.

HIST 4313 Apocalypse Now and Then: A History of Apocalyptic Thought and Movements
This course offers a history of beliefs about the end of the world in the western Judeo-Christian tradition. Through lectures and readings, we will examine such topics as the birth of apocalyptic thought, the medieval development of various aspects of traditions about the End (such as the figure of Antichrist and millenarian traditions), millenial influences on the discovery and colonization of the New World, millennial movements of the last two centuries (such as the Millerites and the Mormons), and contemporary apocalyptic scenarios. A major theme of the course will be the flexibility of apocalyptic language, its ability to interpret various historical situations, and its power to move people to acceptance or action. Dual-listed in the UALR Graduate Catalog as HIST 5313. Three credit hours.

HIST 4314 A History of the Future: Millennial Visions in Film and Literature
Examines past moments in which people take stock of the present by gazing into the future. Through literature and film, studies predictions of the future in their historical contexts. Looks at positive and negative views of the future, secular and religious predictions for humans’ fate. Dual-listed in UALR Graduate Catalog as HIST 5314. Three credit hours

HIST 4315 Religious History of the United States
Development of Protestantism including evangelicism, new denominations, and fundamentalism; incorporation of Catholicism and Judaism into mainstream; relationship between religion and social and political issues including church and state; minority religious beliefs and organizations; varying role of men and women in religious organizations. Dual-listed in the UALR Graduate Catalog as HIST 5315. Three credit hours.

HIST 4316 Ideology and Revolution in Eighteenth-Century Europe
The late eighteenth-century age of revolution and its background. The crisis of the Old Regime; the contributions of Jansenism, the Enlightenment, constitutionalism, and the politics of gender to the formation of a revolutionary ideology; the course of revolution during the last decade of the eighteenth century. Emphasis on France, but some attention to Britain, Germany, Italy, and America. Three credit hours.

HIST 4318 Modern Revolutions: From France to China
A comparative examination of five modern revolutions: the French Revolution (1789-1815), The Meiji “Restoration” in Japan (1853-1890), the Mexican Revolution (1910-1920), the Russian Revolution (1917-1932), and the Chinese Revolution (1919-1949). We will consider such issues as the extent of real turnover in the state apparatus, the prevalence of state-driven “revolutions from above” as opposed to classic “revolutions from below” in modern history, the balance of internal and external causation, and the nature of revolutionary violence. Dual-listed in the UALR Graduate Catalog as HIST 5318. Three credit hours.

HIST 4320 Honors Thesis
In this course students will write a thesis, under the guidance of a thesis committee, based on research in primary sources. Prior to enrolling in the class a student must discuss possible topics with the faculty member(s) with whom s/he plans to work, and draft a thesis proposal. On acceptance of the thesis proposal, students will be cleared to enroll in the thesis class. Three credit hours.

HIST 4326 History of the Atlantic World
This course examines the processes which brought together the history of Europe, Africa, North America and South America across the Atlantic Ocean. Major themes include the Atlantic Ocean as frontier and zone of interaction as well as political, economic and social changes resulting from inter-Atlantic connections. Dual-listed in the UALR Graduate Catalog as HIST 5326. Three credit hours.

HIST 4327 Africa in World History
In this class we will examine Africa’s development from ancient times to the present. In particular we will explore Africa’s relationships with other areas of the world and discuss the points where the African experience converges and diverges from the experience of other regions. We will also focus on three forces driving Africa’s development: geographical contexts, economic systems, and cultural relationships. Dual-listed in the UALR Graduate Catalog as HIST 5327. Three credit hours.

HIST 4328 South Africa in World History
In this class we will examine South Africa’s development from the seventeenth century to the present. In particular we will explore how the geography of southern Africa shaped the emergence of a group of distinct cultures, and how the expansion of racial divisions influenced South African society. We will also focus on the forces of tradition and modernity in the new South Africa. Dual-listed in the UALR Graduate Catalog as HIST 5328. Three credit hours.
HIST 4329 Empires and Cultures, 1850-1914
In this class we will explore the intersection of empires and cultures in world history between the mid-nineteenth century and the start of the first world war. We will read texts that describe the cultural encounter between imperial regimes and colonial cultures. These readings by both indigenous and European authors will let us ask questions and find answers to the issues surrounding the clash between empires and cultures in the late nineteenth century. Dual-listed in the UALR Graduate Catalog as HIST 5329. Three credit hours.

HIST 4333 European Social and Cultural History
Interdisciplinary survey of major European social and cultural developments from the Enlightenment to the present. Explores the interrelationship between a changing society and its beliefs; examines the political impact of modern ideologies, the sciences, and the arts. Three credit hours.

HIST 4335 History at the Movies
This course is designed to introduce students of the past to the potentials and pitfalls of film as a medium of historical exposition. Over the course of the twentieth century, the movies became a primary medium of artistic and commercial expression. The advent of commercial film-making in America also marked the first appearance of a particular “genre” of cinematic form—a “historical drama” was one of the first full-length feature films made in the United States, in 1915. Entitled Birth of a Nation, the movie purported to be a historical “facsimile” that chronicled the aftermath of the Civil War in the United States. Its commercial success guaranteed that movies with historical themes would continue to be made. Ever since, the makers of motion pictures have found the past to be a creative playground and a lucrative idiom. How do these movies relate to History? Dual-listed in the UALR Graduate Catalog as HIST 5335. Three credit hours.

HIST 4338 Holocaust
The Holocaust as both a German and international event, with special emphasis on the role of the United States. Major topics include: the tradition of anti-Semitism and the rise of biological racism in the Western world; the Nazi seizure of power; the politics of immigration, especially in the United States; the planning and execution of the Final Solution; the complicity of non-Germans; Jewish and non-Jewish resistance; the mixed role of the Allied powers, especially the United States; the settling of accounts at Nuremberg; and the impact of the Holocaust on survivors and anti-Semitism in the United States.

HIST 4345 Chinese Film and History
This course looks at the traumatic twentieth century through the lenses of Chinese filmmakers, particularly focusing on how a century of revolution affected urban and rural areas, the roles of women, and the daily lives of people in general. Dual-listed in the UALR Graduate Catalog as HIST 5345. Three credit hours.

HIST 4350 The United States and the Middle East
The development of American foreign policy in the Middle East from 1900 to present. Students will gain an understanding of the critical factors that shape and influence contemporary US-Middle Eastern relations. Dual-listed in the UALR Graduate Catalog as HIST 5350. Three credit hours.

HIST 4352 The American West: Trans-Mississippi
A study of the westward expansion of the United States; United States penetration into the Trans-Mississippi River West after the Lewis and Clark expedition; social, political, and economic development; culture of the indigenous Indians of the northern and southern plains. Three credit hours.

HIST 4353 The Old South
The development of southern institutions and ideas from the colonial period through the Civil War. Three credit hours.

HIST 4354 The New South
Continuity and change within the southern states from Reconstruction to the present. Three credit hours.

HIST 4355 History of Arkansas
Focuses on selected topics central to Arkansas history, covering its political, social, cultural, geographic, and economic development from settlement to present. Dual-listed in the UALR Graduate Catalog as HIST 5355. Three credit hours.

HIST/RACE 4356 History of Race and Ethnicity in America
A survey of the history of race and ethnicity in the United States from prehistory to present with a special focus on selected topics in the experience of African Americans, Asian Americans, European Americans, Latino Americans, and Native Americans. Dual listed in the UALR Graduate Catalog as HIST/RACE 5356. Three credit hours.

HIST 4358 Civil Rights since 1954
An examination of race relations in the United States from the landmark 1954 Brown v. Board of Education U.S. Supreme Court school desegregation decision to present, looking at among other topics the impact of the Civil Rights Movement, the Black Power Movement, Busing, and Affirmative Action. Dual listed in the UALR Graduate Catalog as HIST 5358. Three credit hours.

HIST 4359 American Urban History
Beginnings and growth of urbanization in America from colonial times to the present. Emphasis on the economic base of urban expansion; development of urban policies, services, and municipal administration; the image of the city in popular thought; the impact of industrialization, transportation, population, and the frontier on urbanization. Three credit hours.

HIST 4363 Law in American History
The development of legal institutions in America from their English origins to the present. The rule of law, legal thought and the legal profession, the independent judiciary, civil rights, and the law’s role in economic development. Three credit hours.

HIST 4364 History of American Enterprise
The development of business enterprise in America from its roots in English colonialism through the advent of industrialism; the growth of commerce, the geopolitical foundations of a national marketplace, and the dawn of the corporate age; the relationship between property and the state, social values and the profit motive, innovation and economic advance. Three credit hours.

HIST 4365 Modern U.S. Culture
An examination of the historical development of mass culture in modern America. Concentration on the historical dimensions of culture and the ways in which Americans have redefined their values in response to technological and social change. It will explore the impact of various mechanisms through which a mass culture emerged, including movies, magazines, radio, television. Considers the relationship between culture and national character as currently debated by leading historians. Three credit hours.

HIST 4367 American Labor History
A study of American labor history from colonial times to the present; indentured servitude, slavery, sea-going and free labor, the impact of immigration and the introduction of the factory system, patterns of organization, mass production industries, automation, and the emergence of subsequent problems of the modern labor movement. Three credit hours.

HIST 4368 African American History to 1865
An overview of the African American experience from Slavery to Civil War and Emancipation, examining political, cultural, social, legal, constitutional, and economic developments. Dual-listed in the UALR Graduate Catalog as HIST 5368. Three credit hours.

HIST 4369 African American History Since 1865
An overview of the African American experience from Civil War and Emancipation through Reconstruction, the Age of Segregation, the Civil Rights Movement, and the Black Power Movement to present, examining political, cultural, social, legal, constitutional, and economic developments. Dual-listed in the UALR Graduate Catalog as HIST 5369. Three credit hours.
HIST 4371 Women in World History
An examination of the conditions of women in history with emphasis on problems in European history; attitudes toward women as reflected in religious, legal, and philosophical literature; and the role of expectations of women in various societies. Three credit hours.

HIST 4372 Perspectives on Women in American History
Consideration of conditions and problems of women in American history from colonial to modern times with reference to European background and parallels when appropriate. Three credit hours.

HIST 4373 History of Family and Childhood in Modern Europe
The course introduces students to the history of childhood and family life in nineteenth and twentieth century Europe. Three credit hours.

HIST 4378 The History of U.S.-Latin American Relations
Survey of U.S.-Latin American relations from the pre-Columbian period to the present with emphasis on the nineteenth and early twentieth centuries. Focus on the diplomatic and economic relationships, including dollar diplomacy, intervention, dictatorship, and revolution. Dual-listed in the UALR Graduate Catalog as HIST 5378. Three credit hours.

HIST 4385 U.S. Diplomatic History
The origins, character, and consequences of United States foreign policy and its transformations through the nineteenth century, World War I, World War II, the Cold War, and the modern world. Three credit hours.

HIST 4390 Special Topics in History
Specialized study of selected topics in history. Course content changes each semester; refer to the semester class directory. Dual-listed in the UALR Graduate Catalog as HIST 5390. Three credit hours.

HIST 4391 Seminar in United States History
Prerequisites: HIST 2311, 2312, six hours of upper-level United States history. Advanced study of a topic in United States history chosen by instructor; includes a major research and writing project incorporating the department's goals of identifying a problem; establishing a thesis; gathering, evaluating, and analyzing evidence; and writing in an appropriate scholarly format. Dual-listed in the UALR Graduate Catalog as HIST 5391. Three credit hours.

HIST 4393 Seminar in World History
Prerequisites: HIST 1311, 1312, three hours of upper-level non-US history. Advanced study of a topic in non-US history chosen by instructor; includes a major research and writing project incorporating the department's goals of identifying a problem; establishing a thesis; gathering, evaluating, and analyzing evidence; and writing in an appropriate scholarly format. Dual-listed in the UALR Graduate Catalog as HIST 5393. Three credit hours.

HIST 4395 History Internship
Prerequisites: junior or senior standing, 15 credit hours of history. This course involves field experience with a history-related business or public agency. The student will work 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. Three credit hours.

HIST 4396 Seminar in Arkansas History
Prerequisite: consent of instructor. Discussion, directed readings, research, and writing on selected issues. Topics will vary. May be repeated as topics vary for up to six credit hours. A major research and writing project incorporating the department's goals of identifying a problem; establishing a thesis; gathering, evaluating, and analyzing evidence; and writing in an appropriate scholarly format, is required. Dual-listed in the UALR Graduate Catalog as HIST 5396. Three credit hours.

HIST 4397 Teaching Applications
The course links social studies content with practical applications for classroom instruction. The content information comes from history, geography, political science, sociology/anthropology, and psychology. This content is modeled for prospective secondary education teachers to illustrate how content can be applied in the classroom. The critical components of each of the disciplines will be integrated into the content presentations and the demonstrated applications. This course will be team taught. Same as GEOG 4397 and POLS 4397. Three credit hours.

HIST 4199, 4299, 4399 Independent Study
Prerequisites: senior standing, 15 credit hours of history. Open to history majors only. For students of superior ability who seek special research in the field. One, two, or three credit hours.

Courses in Race and Ethnicity (RACE)

RACE 2301 Introduction to Race and Ethnicity
This course provides an overview of the key concepts and issues in the interdisciplinary study of race and ethnicity. The course serves as an introduction to complex issues such as the social construction of race and ethnicity, white privilege, the role of media in that construction, the effect of immigration on conversations about race, individual and institutional discrimination, multiple differences and intersecting oppressions. Students will explore their own racial identities, biases, and prejudices. Course materials facilitate engagement in critical analysis of textual and statistical information from a variety of disciplinary sources. This course is required for the minor in Race and Ethnicity. Three credit hours.

HIST/RACE 4356 History of Race and Ethnicity in America
A survey of the history of race and ethnicity in the United States from prehistory to present with a special focus on selected topics in the experience of African Americans, Asian Americans, European Americans, Latino Americans, and Native Americans. Dual listed in the UALR Graduate Catalog as HIST/RACE 5356. Three credit hours.

RACE 4100/4200/4300 Independent Study Race and Ethnicity
Prerequisite: Consent of instructor. This course is available to students minoring in Race and Ethnicity only. For the student of superior ability who wishes to pursue research in the field. One, Two, or Three credit hours.
The Department of International and Second Language Studies (DISLS) comprises academic programs in foreign languages, academic and non-academic classes in English as a Second Language, and foreign language and ESL education. Majors offered in the DISLS include World Languages: French and World Languages: Spanish. Minors include French and Spanish.

Courses in foreign languages are offered to give the student proficiency in basic language skills, such as speaking, writing, reading, and understanding; to guide advanced students to fluency of the written and spoken idioms; to acquaint students with major literary works in foreign languages and increase awareness and appreciation of other cultures; to provide courses necessary and useful for those preparing to teach a foreign language or communicate in international affairs; to promote intercultural communication; and to offer background preparation necessary for graduate work in a foreign language. In order to insure that this occurs, the skills of listening, speaking, reading, writing, and cultural understanding are assessed throughout the programs and upon completion of the major.

General Information

Second Language Requirement for B.A., B.S.E, and B.S.W. Students

Students seeking a B.A. degree in any of the following majors are required to complete a 2000-level second language course or demonstrate equivalent proficiency as measured by a competency test.

Students seeking a B.S.E. in Early Childhood Education are required to complete 3 hours of a second language and 3 hours of English as a Second Language. Students seeking a B.S.E. in Middle Childhood Education are required to complete 6 hours of a second language or English as a Second Language in any combination or level. Students seeking a B.S.W. degree are required to complete the elementary I and II levels of a second language sequence of courses.

See “Second Language Requirement” for further details.

Secondary Teacher Licensure Program

Core Requirements (44 hours)
Major in French, Spanish 30 hours (+6)
Minor in Secondary Education (18 hours)
A “teachable” minor (21 hours)
Second Language Education Block (12 hours)
Total 125 hours

An official ACTFL-certified Oral Proficiency Interview is required for all students seeking Teacher Licensure in French or Spanish. Certification at the Advanced-low oral proficiency level is encouraged. See “Secondary Teacher Licensure” for further details.

Any part of the minor in secondary education and the second language education block may be met by demonstration of competency.

Credit Validation – Language

Students who have acquired language skills before enrolling at UALR may receive credit for their proficiency by taking the sequel language skill course and earning a grade of B or greater. Students may request a placement test to find the level at which they should enroll. Up to 12 hours of credit may be obtained in this manner. For more information, see a faculty member in the department.

Accelerated Option for Majors in World Languages: French or Spanish

The accelerated option allows students who have acquired proficiency in French or Spanish to take advantage of their knowledge to progress toward degree completion more rapidly than traditional program requirements would allow. A student desiring accelerated status toward completion of a major in World Languages: French or Spanish may demonstrate proficiency as prescribed below and obtain 24 hours of credit (CR), 18 of which will count toward the 30-hour major requirement.

To demonstrate eligibility for accelerated status, a student must prove oral and writing proficiency by (1) scoring at least “Advanced-Mid” on an official Oral Proficiency Interview (OPI) from ACTFL (American Council on the Teaching of Foreign Languages) and (2) scoring at least “Advanced-Mid” on an official Writing Proficiency Test (WPT) from ACTFL. A student who achieves “Advanced-Mid” or higher ratings on both assessments will be granted 24 hours of credit (CR) for the following courses: (French and Spanish only), 3311, 3312, 2315, 3115, 3116, and 3117.
In addition to the above credits, completion of the major will require 12 credit hours of upper-level work in the major language, to include one culture course (3334, 3335, or 3336 [French only]) and six credit hours at the 4000 level. For more information, see a faculty member in the department.

ESL Endorsement for Teachers

The DISLS offers the four-course endorsement in English as a Second Language (ESL) as per the requirements of the State of Arkansas. The endorsement is added to current teacher licensure, K-12. Students seeking the endorsement must take LANG 4322 Teaching Second Languages, LANG 4323 Second Language Acquisition, LANG 4324 Teaching People of Other Cultures, and LANG 4325 Second Language Assessment.

The Intensive English Language Program (IELP), in the College of Arts, Humanities and Social Sciences, offers non-English speakers a full-time program in English language skills: speaking, listening, reading, and writing. After completing IELP, students with the necessary academic qualifications may be admitted to UALR without taking the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE), or the Michigan test.

Bachelor of Arts in World Languages

French

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of FREN 2311 Intermediate French 1 or demonstrate equivalent proficiency. See page 26 for details.

Major (30 hours above the 1000 level)

Communications (12-15 hours)
FREN 3310 Integrated Skills I
FREN 3311 Integrated Skills II
FREN 3312 Integrated Skills III
FREN 2315 Intermediate Conversational French
or FREN 3115, 3116, 3117 Advanced Conversation

Cultures (3-9 hours)
FREN 3334 French Culture and Civilization I
FREN 3335 French Culture and Civilization II
FREN 3336 Francophone Cultures

Comparisons and Communities (3-9 hours)
FREN 3316 French Pronunciation
FREN 4316 Advanced Listening and Pronunciation
FREN 4141, 4142, 4143 French Practicum
FREN 4350 Senior Project
LANG 3390 Study Abroad

Connections (3-9 hours)
FREN 3333 Selected Readings in French Literature
FREN 4331 Writings: Historical Perspective
FREN 4341 Writings: Modern Perspective
FREN 4351 French Cinema
FREN 4361, 4362 Seminar in French Literature

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Minor in French

A minor in French consists of 21 hours above the 1000 level. Fifteen hours must be in upper-level courses, with at least three hours at the 4000 level as specified below. A grade of C or greater is required in all courses specified for the minor. French minors are strongly encouraged to enroll in LANG 4322 Teaching Second Languages. This course does not count as part of the 21 hours in French.

Minor Coursework
FREN 2311 Intermediate French I

Communications (9 hours)
6 hours from the following
FREN 3310 Integrated Skills I
FREN 3311 Integrated Skills II
FREN 3312 Integrated Skills III
3 hours from the following
FREN 2315 Intermediate Conversational French
FREN 3115, 3116, 3117 Advanced Conversation

Cultures (3 hours)
FREN 3334 French Culture and Civilization I
FREN 3335 French Culture and Civilization II
FREN 3336 Francophone Cultures

Comparisons and Communities (3 hours)
FREN 3316 French Pronunciation
FREN 4316 Advanced Listening and Pronunciation
FREN 4141, 4142, 4143 French Practicum
FREN 4350 Senior Project
LANG 3390 Study Abroad

Connections (3 hours)
FREN 3333 Selected Readings in French Literature
FREN 4331 Writings: Historical Perspective
FREN 4341 Writings: Modern Perspective
FREN 4351 French Cinema
FREN 4361, 4362 Seminar in French Literature

Honors Program in French

The department offers an honors program available to exceptional students leading to the bachelor of arts in World Languages: French with honors. To be admitted to the program, a student must apply for acceptance to the program, be a declared major in World Languages: French, have at least 60 hours of undergraduate college credit, including at least 15 hours of French, and have a cumulative grade point average of at least 3.25 on all University work taken at UALR and elsewhere.

To qualify for the degree with honors, a student must maintain a cumulative grade point average of at least 3.25 and a 3.25 in all French courses, complete all requirements for the World Languages: French major, and include a three hour specialized French seminar and a three hour Senior project in the 30 hours required for the French major. Study abroad is strongly encouraged. More information can be obtained from the department advisor.
Bachelor of Arts in World Languages
Spanish

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of SPAN 2311 Intermediate Spanish or demonstrate equivalent proficiency. See page 26 for details.

Major (30 hours)
3 hours may be at the 2000 level
SPAN 3311 Communications: Interpersonal (or equivalent demonstrated proficiency)
SPAN 3312 Communications: Interpretive (or equivalent demonstrated proficiency)
21 hours of any upper-level SPAN course (3000-4000 level); at least 6 of these hours must be senior-level (4000).

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Minor in Spanish
A minor in Spanish consists of 21 hours above the 1000 level. Fifteen hours must be in upper-level courses, with at least three hours at the 4000 level. A minor must complete SPAN 3311 and 3312 or demonstrate equivalent proficiency. A grade of C or greater is required in all courses specified for the minor. Spanish minors are strongly encouraged to enroll in LANG 4322 Teaching Second Languages. This course does not count as part of the 21 hours in Spanish.

Instruction in Other Languages
Courses in other modern languages (Japanese, Mandarin, Russian, etc.) and classical languages (Greek, Hebrew, Latin, etc.) are offered periodically in response to student interest.

Courses in Chinese (CHIN)
CHIN 1311 Elementary Mandarin Chinese I
A course for beginners with no knowledge of Mandarin Chinese. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic grammar and a limited reading ability. Chinese culture is also introduced. Three credit hours.

CHIN 1312 Elementary Mandarin Chinese II
Prerequisite: CHIN 1311 or equivalent. Continuation of CHIN 1311. Three credit hours.

CHIN 2311 Intermediate Mandarin Chinese
Prerequisite: CHIN 1312 or equivalent. A continuation of CHIN 1312, the intermediate course leads to greater facility in the spoken language and to more advanced reading skills. Three credit hours. Courses in Classical Languages (CLNG)

CLNG 1301 Elementary Classical Language I
Offered in a designated classical language in response to student interest. Introduction to the grammar of a designated classical language. Elementary reading and translation in selected texts. Three credit hours.

CLNG 1302 Elementary Classical Language II
Prerequisite: CLNG 1301 in specified classical language or equivalent. Continuation of Classical Language 1301. Three credit hours.

CLNG 1311 Elementary Biblical Hebrew
Introduction to the grammar of biblical Hebrew. Elementary reading in selected biblical texts. Three credit hours.

CLNG 1312 Biblical Hebrew Reading
Prerequisite: CLNG 1311 or consent of instructor. Reading of selected biblical prose texts, leading toward development of rapid reading ability. Three credit hours.

CLNG 2301 Intermediate Classical Language I
Prerequisite: CLNG 1302 or equivalent. Readings from the works of classical authors providing an introduction to the literature of the ancient world. Three credit hours.

CLNG 2302 Intermediate Classical Language II
Prerequisite: CLNG 2301 or equivalent. Readings from the works of classical authors to prepare students for studies of prose and poetry written during the flowering of ancient civilizations. Three credit hours.

CLNG 3311 Advanced Biblical Hebrew
Prerequisite: CLNG 3312. Selected readings of poetic texts in the Hebrew Bible. Investigation of poetic syntax and meter. Three credit hours.

Courses in French (FREN)
FREN 1311 Elementary French I
A course for beginners with no knowledge of French. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic grammar and a limited reading ability. Three credit hours. (ACTS Course Number FREN 1013)

FREN 1312 Elementary French II
Prerequisite: FREN 1311 or equivalent. Continuation of FREN 1311. Three credit hours. (ACTS Course Number FREN 1023)

FREN 1315 Conversational French
Prerequisite: FREN 1312 or consent of instructor. A performance course with emphasis on elementary conversation and discussion. For students with a basic knowledge of French grammar. Three credit hours.
### Courses in French (FREN)

- **FREN 2311 Intermediate French**  
  Prerequisite: FREN 1312 or equivalent. The intermediate course leads to greater facility in the spoken language and to more advanced reading skills. Three credit hours. (ACTS Course Number FREN 2013)

- **FREN 2315 Intermediate Conversational French**  
  Prerequisite: FREN 2311. A performance course with emphasis on intermediate-level conversation and discussion. Three credit hours.

- **FREN 3115, 3116, 3117 Advanced Conversation**  
  Special topics for discussion at an advanced level. Leads to expanded vocabulary mastery and greater fluency in the spoken idiom. May be taken one, two, or three hours per semester to a maximum of six hours.

- **FREN 3310 Integrated Skills I**  
  Prerequisite: FREN 2311 or equivalent proficiency. An integrated approach to skill acquisition leading to intermediate-high proficiency. Within the rubric of communication, content focuses on the presentational mode. Three credit hours.

- **FREN 3311 Integrated Skills II**  
  Prerequisite: FREN 2311 or equivalent proficiency. An integrated approach to skill acquisition leading to intermediate-high proficiency. Within the rubric of communication, content focuses on the interpersonal mode. Three credit hours.

- **FREN 3312 Integrated Skills III**  
  Prerequisite: FREN 2311 or equivalent proficiency. An integrated approach to skill acquisition leading to intermediate-high proficiency. Within the rubric of communication, content focuses on the interpretive mode. Three credit hours.

- **FREN 3316 French Pronunciation**  
  Prerequisite: FREN 2311 or consent of instructor. The sounds and phonetic symbols of the French language with reference to phrasing, stress, rhythm, and intonation. Three credit hours.

- **FREN 3321 French Short Stories**  
  Prerequisite: FREN 2311 or consent of instructor. Reading and criticism of short stories by outstanding authors. Three credit hours.

- **FREN 3332 Introduction to French Literature**  
  Prerequisite: FREN 2311. History of the literature from the end of the seventeenth century to the present. Three credit hours.

- **FREN 3333 Selected Readings in French Literature**  
  Prerequisite: 3000-level French course or consent of instructor. Reading and discussion of selected works from French literature. Three credit hours.

- **FREN 3334 French Culture and Civilization I**  
  Prerequisite: FREN 2311 or equivalent (may be corequisite with consent of the instructor). Historical, sociological, and cultural background of the French people. Three credit hours.

- **FREN 3335 French Culture and Civilization II**  
  Prerequisite: FREN 2311 or equivalent. A continuation of FREN 3334. Three credit hours.

- **FREN 3336 Francophone Cultures**  
  Prerequisite: FREN 2311 or equivalent proficiency. History and culture of francophone communities outside of metropolitan France, including French overseas departments (Martinique, Guadeloupe), the Maghreb, West Africa, and North America (Québec, Louisiana). Three credit hours.

- **FREN 4141, 4142, 4143 French Practicum**  
  Prerequisite: FREN 3312 and two 3000-level French courses. Special problems in French syntax and stylistics. Offers students an opportunity to enrich and reinforce knowledge of syntax and stylistics for greater mastery in written communication. May be taken one hour per semester to a maximum of three hours.

- **FREN 4316 Advanced Listening and Pronunciation**  
  Prerequisite: two 3000-level French courses. Advanced listening and pronunciation skills with reference to varieties of French spoken in the Francophone world. Three credit hours.

- **FREN 4331 Writings: Historical Perspective**  
  Prerequisite: two 3000-level French courses. Reading and criticism of works of outstanding authors to the end of the 19th century. Three credit hours.

- **FREN 4341 Writings: Modern Perspective**  
  Prerequisite: two 3000-level French courses. Reading and criticism of outstanding authors from the early 20th century to the present time. Three credit hours.

- **FREN 4350 Senior Project**  
  Prerequisite: two 3000-level French courses. An independent project requiring research, oral presentation and written documentation under the guidance of French faculty. Topic must be approved prior to registration. Three credit hours.

- **FREN 4351 Cinema**  
  Prerequisite: two 3000-level French courses. Viewings and discussion of French films including how French films both shape and reflect aspects of French cultural identity. Three credit hours.

- **FREN 4361, 4362 Seminar in French Literature**  
  Prerequisite: two French literature courses or consent of instructor and two 3000-level French courses. Reading, discussion, and critical analysis of selected works from French literature. Three or two credit hours.

- **FREN 4101, 4201, 4301 Independent Study**  
  Prerequisite: two 3000-level French courses and consent of the instructor. Reading from a selected bibliography of French authors. Credit is determined at the beginning of the course according to the problem and will not be altered. One, two, or three credit hours.

### Courses in German (GERM)

- **GERM 1111 Elementary German Laboratory I**  
  Corequisite: GERM 1311. Supervised laboratory practice in listening, speaking, and aural comprehension of German. One credit hour.

- **GERM 1112 Elementary German Laboratory II**  
  Prerequisite: GERM 1311 or equivalent. Corequisite: GERM 1312. Continuation of GERM 1111. One credit hour.

- **GERM 1115, 1215, 1315 Conversational German**  
  Prerequisite: GERM 1312 or consent of instructor. A performance course with emphasis on elementary conversation and discussion. For students with a basic knowledge of German grammar. One, two, or three credit hours.

- **GERM 1301 Reading German**  
  Essential grammar for reading German, with minor emphasis on pronunciation. Will not substitute for any other course in German. Three credit hours.

- **GERM 1311 Elementary German I**  
  A course for beginners with no knowledge of German. Instruction in correct pronunciation, aural comprehension, and simple speaking ability. Three credit hours. (ACTS Course Number GERM 1013)

- **GERM 1312 Elementary German II**  
  Prerequisite: GERM 1311 or equivalent. Practice in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic grammar and a limited reading ability. Three credit hours. (ACTS Course Number GERM 1023)

- **GERM 2111 Intermediate German Laboratory I**  
  Corequisite: GERM 2311. Supervised laboratory practice in listening, speaking and aural comprehension of German at an intermediate level. One credit hour.
GERM 2112 Intermediate German Laboratory II  
Corequisite: GERM 2312. Continuation of GERM 2111. One credit hour.

GERM 2311 Intermediate German I  
Prerequisite: GERM 1312 or equivalent. The intermediate course leads to greater facility in the spoken language and to more advanced reading skills. Three credit hours. (ACTS Course Number GERM 2113)

GERM 2312 Intermediate German II  
Prerequisite: GERM 2311 or equivalent. Continuation of GERM 2311. Three credit hours. (ACTS Course Number GERM 2123)

GERM 2315 Intermediate German Conversation  
Prerequisites: GERM 2311, 2312 or instructor’s consent. A course to practice oral skills on a wide range of topics. Students will learn how to narrate, describe, compare, and comment. Three credit hours.

GERM 2337 German Literature in Translation  
The study and reading of representative works (in English) of German prose, poetry, and drama. Will not apply toward a major or minor in German. Three credit hours.

GERM 3115, 3116, 3117 Advanced German Conversation  
Prerequisite: GERM 2315 or higher or consent of instructor. A course leading to greater fluency in oral skills. Students work toward oral proficiency through discussions on specialized topics. One credit hour.

GERM 3311 Advanced Composition and Conversation  
Prerequisite: GERM 2312 or equivalent. Review of basic grammar and practice of oral and written skills. Three credit hours.

GERM 3312 Advanced Composition and Syntax  
Prerequisite: GERM 2312 or equivalent. GERM 3311 is recommended. Grammar and syntax toward mastery of reading, writing, and speaking skills. Three credit hours.

GERM 3316 German Phonetics  
Prerequisite: 2000-level German course. The sounds and phonetic symbols of the German language with reference to its history. Three credit hours.

GERM 3321 German Short Stories  
Prerequisite: GERM 3312 or consent of instructor. Reading and criticism of short stories by outstanding authors. Three credit hours.

GERM 3332 Introduction to German Literature  
Prerequisite: GERM 3312. Selected readings in German literature and brief history of the literature from the age of Goethe to the present. Three credit hours.

GERM 3333 Selected Readings in German Literature  
Prerequisite: 3000-level German course or consent of instructor. Reading and discussion of selected works from German literature. Three credit hours.

GERM 3334 German Culture and Civilization  
Prerequisite: GERM 2312 or the equivalent. Background studies for German literature. The social, intellectual, and cultural history of German-speaking countries as it applies to the study and teaching of German language and literature. Three credit hours.

GERM 4101, 4201, 4301 Independent Study  
Prerequisite: consent of instructor. Reading from a selected bibliography of works in the field of Germanic languages and literature. Credit is determined at the beginning of the course according to the problem and will not be altered. One, two, or three credit hours.

GERM 4151, 4152, 4153 Senior Research Project  
Prerequisite: senior standing. An independent research project completed over two semesters under guidance of a faculty supervisor whose field is related to the proposed area of investigation. The project has three components, consisting of a proposal (4151), a formal paper (4152), and an oral presentation (4153), each providing one hour of academic credit. A student may enroll in 4152 and 4153 only after completing 4151. Required for German studies majors. Three credit hours.

GERM 4161, 4261, 4361 Seminar: Special Topics  
Prerequisite: six hours of upper-level German or consent of instructor. Reading, discussion, and critical analysis of selected materials from German speaking regions. Course content will change on demand. May be repeated for a maximum of six hours if topic changes. One, two, or three credit hours.

Courses in General Foreign Languages (LANG)

LANG 1301 English as a Foreign Language  
A novice-level course for non-native speakers of English. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic reading, writing, and grammar.

LANG 1302 English as a Foreign Language  
A novice-level course for non-native speakers of English. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic reading, writing, and grammar.

LANG 1303 English as a Foreign Language  
A novice-level course for non-native speakers of English. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic reading, writing, and grammar.

LANG 1304 English as a Foreign Language  
A novice-level course for non-native speakers of English. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic reading, writing, and grammar.

LANG 1311 Elementary Language Laboratory I  
Corequisite: LANG 1311. Offered in a designated foreign language. Supervised laboratory practice in listening, speaking, and aural comprehension. One credit hour.

LANG 1312 Elementary Language Laboratory II  
Corequisite: LANG 1312. Continuation of LANG 1111. One credit hour.

LANG 1210 Language for Travel and Business  
Conversational skills in a designated foreign language for individuals interested in language primarily for travel and business. Will not substitute for any 1311, 1312, or 1313 language course. Two credit hours.

LANG 1212 Language for Travel and Business II  
Continuation of LANG 1210. Will not substitute for any 1311, 1312, or 1315 language course. Two credit hours.

LANG 1311 Elementary Language I  
Offered in a designated foreign language in response to student interest. A course for beginners with no knowledge of the specified language. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic grammar and a limited reading ability. Three credit hours.
LANG 1312 Elementary Language II
Prerequisite: LANG 1311 in specified language or equivalent. Continuation of LANG 1311. Three credit hours.

LANG 1321, 1322 English as a Foreign Language
An elementary course for nonnative speakers of English. Instruction in correct pronunciation, aural comprehension, and simple speaking ability leading to active mastery of basic grammar and a limited reading ability. Three credit hours.

LANG 1323, 1324 English as a Foreign Language
Prerequisites: LANG 1321, 1322, or equivalent proficiency. Continuation of LANG 1321, 1322. Three credit hours.

LANG 1325, 1326 English as a Foreign Language
Prerequisites: LANG 1323, 1324, or equivalent proficiency. Continuation of LANG 1323, 1324. Three credit hours.

LANG 1327, 1328 English as a Foreign Language
Prerequisites: LANG 1325, 1326, or equivalent proficiency. Continuation of LANG 1325, 1326. Three credit hours.

LANG 1390, 1391, 2390, 2391, 3390, 3391, 3690, 3691, 3692, 3693 Language Study Abroad
Prerequisite: study of language of region visited. Offered for study abroad only. A language skills acquisition course often including a study of the culture and civilization of the region visited. Level of credit determined by student’s placement abroad in a University-sanctioned program. Hours of credit determined prior to departure and based upon program content and duration. These courses do not satisfy the UALR second language proficiency requirement.

LANG 2302 Foreign Language for Music Students
Study and practice of pronunciation of Italian, French, and German for music students; selections from opera, folk music, and standard vocal repertoire. Cannot be used to fulfill requirements in the department. Three credit hours.

LANG 2311 Intermediate Language I
Prerequisite: LANG 1312 in specified language or equivalent. A continuation of LANG 1312, the intermediate course leads to greater facility in the spoken language and to more advanced reading skills. Three credit hours.

LANG 2312 Intermediate Language II
Prerequisite: LANG 2311 in specified language or equivalent. Continuation of LANG 2311. Three credit hours.

LANG 2350 Foreign Language Study Trip
Prerequisite: appropriate LANG 1312 or consent of department chairperson. Offered with study abroad programs only. In addition to practical experience in language usage, students will undertake various projects requiring language use. Three credit hours. This course does not satisfy the UALR second language proficiency requirement.

LANG 4322 Teaching Second Languages
An overview of methods and materials used to teach skill development in modern second languages, techniques considered most effective, and appropriate assessment strategies. Required for foreign language teacher certification and the ESL endorsement in the state of Arkansas. Dual-listed in the UALR Graduate Catalog as LANG 5322. Three credit hours.

LANG 4323 Second Language Acquisition
Prerequisite: junior standing. How second language is acquired by children and adults. A course for those preparing to teach students with limited English proficiency. Required for ESL endorsement in the state of Arkansas. Dual-listed in the UALR Graduate Catalog as LANG 5323. Three credit hours.

LANG 4324 Teaching People of Other Cultures
Prerequisite: junior standing. Cultural issues for teaching students with limited English proficiency. A required course for ESL endorsement in the state of Arkansas. Dual-listed in the UALR Graduate Catalog as LANG 5324. Three credit hours.

LANG 4325 Second Language Assessment
Prerequisite: junior standing. Examines goals, principles, instruments, and techniques of assessment and testing of second language learners, K-12 and adult. A required course for ESL endorsement in the state of Arkansas. Dual-listed in the UALR Graduate Catalog as LANG 5325. Three credit hours.

LANG 4350 Advanced Foreign Language Study Trip
Prerequisite: appropriate language at the junior level or consent of department chairperson (given for equivalent knowledge). Offered with study abroad programs only. In addition to gaining practical experience in language usage, students will choose and undertake a research project of their choice, requiring fluency. Three credit hours. This course does not satisfy the UALR second language proficiency requirement.

Courses in Spanish (SPAN)

SPAN 1111 Elementary Spanish Laboratory I
Corequisite: SPAN 1311. Supervised laboratory practice in listening, speaking, and aural comprehension. One credit hour.

SPAN 1112 Elementary Spanish Laboratory II
Corequisite: SPAN 1312. Continuation of SPAN 1111. One credit hour.

SPAN 1301 Reading Spanish
Essential grammar for reading Spanish with minor emphasis on pronunciation. Will not substitute for any other course in Spanish or apply toward a major or minor in Spanish. Three credit hours.

SPAN 1311 Elementary Spanish I
A course for students with no knowledge of Spanish. Instruction in correct pronunciation, aural comprehension, and simple speaking ability. Three credit hours.

SPAN 1312 Elementary Spanish II
Prerequisite: SPAN 1311 or equivalent. Practice in correct pronunciation, aural comprehension, and simple speaking ability leading to mastery of basic grammar and limited reading ability. Three credit hours.

SPAN 1315 Conversational Spanish
Prerequisite: SPAN 1312 or consent of instructor. A performance course with emphasis on elementary conversation and discussion. For students with a basic knowledge of Spanish grammar. Three credit hours.

SPAN 2311 Intermediate Spanish
Prerequisite: SPAN 1312 or equivalent. The intermediate course leads to a greater facility in the spoken language and to more advanced reading skills. Three credit hours.

SPAN 2315 Intermediate Spanish Conversation
Prerequisite: SPAN 2311 or consent of instructor. A course to practice oral skills on a wide range of topics. Students narrate, describe, compare, and comment. Three credit hours.

SPAN 3115, 3116, 3117 Advanced Spanish Conversation
Prerequisite: SPAN 2315 or higher or consent of instructor. A course to practice oral skills on a wide range of topics. Leads to expanded vocabulary mastery and greater fluency in the spoken idiom. May be taken to a maximum of three hours.

SPAN 3301 Contextualized Spanish Grammar
An intensive study of Spanish grammar and application of specific grammatical structures to authentic communicative contexts. Three credit hours.

SPAN 3310 Communications: Presentational
Prerequisite: SPAN 2311. An integrated approach to skill acquisition leading to intermediate-high proficiency. Within the rubric of communication, content focuses on the presentational mode. Three credit hours.
SPAN 3311 Communications: Interpersonal
Prerequisite: SPAN 2311. An integrated approach to skill acquisition leading to intermediate-high proficiency. Within the rubric of communication, content focuses on the interpersonal mode. Three credit hours.

SPAN 3312 Communications: Interpretive
Prerequisite: SPAN 2311. An integrated approach to skill acquisition leading to intermediate-high proficiency. Within the rubric of communication, content focuses on the interpretive mode. Three credit hours.

SPAN 3316 Spanish Phonetics
Prerequisite: SPAN 2311 or consent of instructor. The sounds and phonetic symbols of the Spanish language with reference to phrasing, stress, rhythm, and intonation. Three credit hours.

SPAN 3321 Spanish Short Stories
Prerequisite: SPAN 2311 or consent of instructor. Reading and criticism of short stories by outstanding authors. Three credit hours.

SPAN 3332 Introduction to Spanish Literature
Prerequisite: SPAN 2311. History of the literature of Spain from the medieval period to the present. Three credit hours.

SPAN 3333 Selected Readings in Spanish Literature
Prerequisite: 3000-level Spanish course or consent of instructor. Reading and discussion of selected works from Spanish and Spanish American literature. Three credit hours.

SPAN 3334 Hispanic Culture: Peninsular
Prerequisite: SPAN 2311 or equivalent (or corequisite with consent of instructor). Historical, sociological, and cultural background of people of the Iberian peninsula. Three credit hours.

SPAN 3335 Hispanic Culture: Americas
Prerequisite: SPAN 2311 or equivalent (may be corequisite with consent of the instructor). Historical, sociological, and cultural background of Hispano-America. Three credit hours.

SPAN 4311 Literature of the Golden Age
Prerequisite: 3000-level Spanish course. Selected dramatic and prose writings of the Golden Age. Three credit hours.

SPAN 4331 Nineteenth-Century Literature
Prerequisite: 3000-level Spanish course. Readings and criticism of outstanding authors of this period. Three credit hours.

SPAN 4341 Twentieth-Century Literature
Prerequisite: 3000-level Spanish course. Writings of the “Generation of ’98” and more recent authors. Three credit hours.

SPAN 4351 Spanish American Literature
Prerequisite: 3000-level Spanish course. Reading of works by several representative Latin American authors. Three credit hours.

SPAN 4361, 4362 Seminar
Prerequisite: Senior standing in Spanish or consent of instructor. Advanced topics in language, literature, or linguistics. May be repeated for maximum of 6 hours per seminar course. Three credit hours.

SPAN 4101, 4201, 4301 Independent Study
Prerequisite: consent of instructor. Reading from a selected bibliography in Spanish. Credit is determined at the beginning of the semester by the complexity of the problem and will not be altered. Open only to majors. One, two, or three credit hours.
The Department of Music provides quality learning opportunities for majors; serves the needs of the general student population; advances teaching, performance, creativity, research and scholarship among its faculty; and acts as an educational and cultural resource for the university, the city of Little Rock, and Central Arkansas. The department holds accreditation by the National Association of Music and the College of Education holds NCATE accreditation.

Our faculty includes noted artists, teachers and scholars. Music majors may take courses in performance study of classical music and jazz, music history, theory and composition. The 300-seat Stella Boyle Smith Concert Hall is the setting for the many concerts hosted by the department each year. Our facilities also include a state-of-the-art computer lab/classroom, fully mediated classrooms, and a fully equipped keyboard lab.

### General Information

#### Admission to Music Programs

All prospective music majors must successfully complete an audition for full admission to the department. Auditions comprise three components; students complete each of these to assist the music department in placing you in the appropriate classes:

1. **Performance Audition.** A performance audition of two contrasting piece on a chosen principal instrument/voice. The results of the audition will determine placement with the appropriate private studio instructor and/or student ensemble. Additionally, the faculty uses the audition to determine if a student will receive a scholarship offer.
2. **Theory Placement Assessment.** This assessment ensures that students are familiar with conventions of musical notation in treble and bass clef, scales, key signatures, rhythm, meters and basics of triadic harmony, and allows the Music Department to place students in the appropriate music theory course(s).
3. **Keyboard Skills Evaluation.** Each music major at UALR is required to pass a piano proficiency. This evaluation places students in the appropriate group piano course or in the appropriate level of private instruction.

Students may audition on specified days set by the department each year, or by appointment with the Department.

#### Scholarship Information

The Department of Music offers scholarships for qualified music majors. All scholarships are based on merit and are awarded after a live or recorded audition. Scholarship award conditions include meeting academic and enrollment requirements. Continuation of a music scholarship award is dependent upon affirmative evaluation of student work by UALR music faculty, maintaining a minimum GPA level, fulfilling performance requirements, and successful progress toward the declare major in music.

Grants-in-aid are available to students of any academic major for participation in selected ensembles. Grants are awarded for Concert Choir, Opera Performance, Gospel Chorale, the Trojan Pep Band, and the Wind Ensemble. Students holding grants are expected to maintain an appropriate grade point level. Renewal of grants is based on satisfactory review of student participation and academic standing. Grant-in-aid auditions are administered separately from scholarship auditions.

#### Advisement

Each student is required to seek advising before registration. Department of Music faculty members serve as advisors for students in their area, and work with students concerning semester schedules and career issues.

#### Ensembles

Department of Music ensembles are open to all UALR students. Ensemble directors hold auditions at the beginning of each semester.

### Vocal Ensembles

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Contact the Department of Music Office, (501) 569-3294, for information on joining these groups.
Bachelor of Arts in Music

General: 120 minimum total hours including 45 hours of upper-level courses (3000-4000 level) and 30 hours in residence

First-Year Colloquium (1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details) MUAP 2154 First Year Experience in Music recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (48 hours)
Music Theory (17 hours)
MUTH 1381 Introduction to Theory
MUTH 2381 Theory I
MUTH 2192 Aural Skills I
MUTH 2391 Theory 2
MUTH 2193 Aural Skills 2
MUTH 3381 Theory 3
MUTH 3192 Aural Skills 3
MUTH 3231 Form and Analysis
Music History and Literature (9 hours)
MUHL 3331 Music History I
MUHL 3341 Music History 2
MUHL 3381 American Music or MUHL 3361 History of Jazz
Music Performance (8 hours)
Studio lessons 4 hours of which to be completed at the 3000- or 4000-level.
A minimum of 4 hours to be completed at UALR
Music Ensemble (4 hours)
Piano Proficiency (4 hours)
MUAP 1114 Piano Class 1
MUAP 1164 Piano Class 2
MUAP 2184 Piano Class 3
MUAP 3165 Piano Class 4
Recital Attendance (0 hours)
Students must successfully complete 6 semesters of MUAP 1000 Recital Attendance

Music History Elective (3 hours)
One upper-level music history course (MUHL)

Electives (3 hours)
To be selected from any upper-level music course

Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Arts in Music
**Music Theory Track**

**General:** 120 minimum total hours including 45 hours of upper-level courses (3000-4000 level) and 30 hours in residence

**First-Year Colloquium (1 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details) MUAP 2154 First Year Experience in Music is recommended.

**Core (44 hours)**
See page 25 for requirement details.

**Second Language Proficiency (9 hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (48 hours)**

**Music Theory (17 hours)**
- MUTH 1381 Introduction to Theory
- MUTH 2381 Theory I
- MUTH 2192 Aural Skills I
- MUTH 2391 Theory 2
- MUTH 2193 Aural Skills 2
- MUTH 3381 Theory 3
- MUTH 3192 Aural Skills 3
- MUTH 3231 Form and Analysis

**Music History and Literature (9 hours)**
- MUHL 3331 Music History I
- MUHL 3341 Music History II
- MUHL 3381 American Music
  or MUHL 3361 History of Jazz

**Music Theory Capstone (3 hours)**
- MUTH 4191 Theory Capstone I
- MUTH 4292 Theory Capstone II
  Topics to be selected in consultation with music theory faculty

**Music Performance (8 hours)**
Studio lessons; 4 hours to be completed at 3000- or 4000-level; 4 hours to be completed at UALR

**Music Ensemble (4 hours)**

**Piano Proficiency (4 hours)**
- MUAP 1114 Piano Class 1
- MUAP 1164 Piano Class 2
- MUAP 2184 Piano Class 3
- MUAP 3165 Piano Class 4
Bachelor of Music Performance

**General:** 120 minimum total hours including 45 hours of upper-level courses (3000-4000 level) and 30 hours in residence

**First-Year Colloquium (1 hour)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details) MUAP 2154 First Year Experience in Music recommended.

**Core (44 hours)**
See page 25 for requirement details.

**Second Language Proficiency (9 hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (66 hours)**

**College and/or Program Foundation Courses (57 hours)**
- **Music Theory (17 hours)**
  - MUTH 1381 Introduction to Theory
  - MUTH 2381 Theory I
  - MUTH 2191 Aural Skills I
  - MUTH 3381 Theory 2
  - MUTH 3191 Aural Skills 2
  - MUTH 3382 Theory 3
  - MUTH 3192 Aural Skills 3
  - MUTH 3231 Form and Analysis
- **Music History and Literature (9 hours)**
  - MUHL 3331 Music History 1
  - MUHL 3341 Music History 2
  - MUHL 3381 American Music
  - or MUHL 3361 History of Jazz
- **Music History Elective (3 hours)**
  Any upper level music history course (MUHL)
- **Music Performance (16 hours)**
  Studio lessons; 8 hours to be completed at 3000- or 4000-level; 8 hours to be completed at UALR
- **Piano Proficiency (4 hours)**
  MUAP 1114 Piano Class I
  MUAP 1164 Piano Class 2
  MUAP 2184 Piano Class 3
  MUAP 3165 Piano Class 4
- **Recital Attendance (0 hours)**
  Students must successfully complete 6 semesters of MUAP 1000 Recital Attendance

**Emphasis Areas Tracks or Concentrations (16-17 hours)**

**Emphasis One: Vocal Music Education (16 hours)**
- MUED 2200 Foundations of Music Education
- MUED 3223 Global Styles and Practice
- MUED 3214 Vocal Pedagogy
- MUED 3315 Teaching Music in Performance Ensembles
- MUED 3322 Teaching General Music
- MUAP 3124 Conduction I
- MUAP 3225 Conducting II
- **Instrumental Techniques (1 hour)**
  MUED 2101 Woodwind Techniques
  MUED 2102 Brass Techniques
  MUED 2103 Percussion Techniques
  MUED 2104 String Techniques

**Emphasis Two: Instrumental Music Education (17 hours)**
- MUAP 1104 Voice Class
- MUED 2200 Foundations of Music Education
- MUED 3223 Global Styles and Practice
- MUED 3315 Teaching Music in Performance Ensembles
- MUED 3322 Teaching General Music
- MUAP 3124 Conducting I
- MUAP 3225 Conducting II
- **Instrumental Techniques (3 hours)**
  MUED 2101 Woodwind Techniques
  MUED 2102 Brass Techniques
  MUED 2103 Percussion Techniques
  MUED 2104 String Techniques

**Minor (18 hours)**

**Secondary Education Courses**
- SCED 3210 Instructional Skills**
- SCED 3110 Instructional Skills Practicum**
- SCED 4321 Teaching Diverse Adolescents**
- SCED 4122 Classroom Management**
- SCED 4123 Adolescents w/Special Needs**
- SCED 4124 Adolescent Diversity Practicum**
- SCED 4330 Reflective Teaching & Professionalism**
- TCED 4600 Student Teaching/Clinical Experience** (concurrent with ARED 4194 Student-Teacher Seminar)

**Praxis I must be passed before enrolling in SCED and TCED courses. GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to entering Block III of the Secondary Education minor.

**Unrestricted General Electives**
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Group and Private Lessons

Group Lessons (MUAP)

The following performance classes are recommended for students with little or no formal musical training, who need to learn fundamentals of performance technique and reading music notation:

- MUAP 1203 Pop Guitar Class
- MUAP 1204 Voice Class I
- MUAP 1114 Piano Class I

Private Lessons (MUPR)

Private music lessons (one-to-one instruction) are available in the areas of guitar, piano, voice, percussion, and several other instrumental areas. See Private Lesson courses listed on the following pages.

Courses in Performance Studies (MUAP)

MUAP 1000 Recital Attendance

Attendance at concerts, recitals, student convocations, etc., as required by departmental policies.

MUAP 1100 Third-Age Piano Class

Prerequisite: Consent of the instructor. Designed for individuals who are interested in pursuing piano study in a less-formal group setting. Various technical, reading, and harmonization topics explored for performance of solo and ensemble works. May be repeated for credit. One credit hour.

MUAP 1104 Vocal Study

Group vocal studies designed for beginning music majors. Group application of proper breathing, phrasing and general attributes of correct vocal production. Introduction to study of the International Phonetic Alphabet. For music majors only.

MUAP 1114 Piano Class I

Prerequisite: Consent of instructor. For beginning piano students with little or no keyboard experience. Basic skills required to play the piano will be addressed in a group setting. Topics explored include piano technique, music reading, basic harmonization, transposition and theory and keyboard fundamentals. One credit hour. Music majors only.

MUAP 1164 Piano Class II

Prerequisite: MUAP 1114 with grade of C or greater. A continuation of Piano Class I designed to continue development of keyboard facility through technique, sight reading, harmonization, and a variety of solo and ensemble piano repertoire. One credit hour. Music majors only.

MUAP 1201 Guitar Reading I

Prerequisite: MUAP 1203 with B or greater or consent of instructor based on audition to demonstrate familiarity with guitar and music fundamentals. Instrumental laboratory for guitarists, emphasizing reading studies in a variety of music styles. Two credit hours.

MUAP 1202 Guitar Reading II

Prerequisite: MUAP 1201 or consent of instructor. A continuation of Guitar Reading I with emphasis on chord chart reading. Comping in various styles will be discussed and more advanced materials will be used to improve simple line reading. Two credit hours.

MUAP 1203 Pop Guitar Class

Designed as an alternative to conventional class guitar, this course teaches theory, technique, and control through the performance of songs in the pop-rock idiom. Class time is divided between the introduction of a concept or technique and its application in the songs provided. The course is open to anyone. Two credit hours.
MUAP 1204 Voice Class I
For students wishing to develop beginning vocal skills. Introduction to vocal technique and group application of proper breathing, phrasing, and general attributes of correct vocal production. Not for music majors.

MUAP 1244 Voice Class II
Prerequisite: MUAP 1204 or consent of instructor. Continuing group vocal instruction for majors other than music with emphasis on the development of vocal technique and individual performance of art songs. Two credit hours. Not for music majors.

MUAP 2184 Piano Class III
Prerequisite: MUAP 1164 with grade of C or greater. Designed to hone the skills introduced in Piano Class II, with an emphasis on sight reading, playing from lead sheets, and on playing a variety of intermediate solo and ensemble repertoire from various stylistic periods. One credit hour. Music majors only.

MUAP 2218 Voice for Musical Theatre
Prerequisite: MUAP 1204 or consent of instructor. A vocal performance class studying the techniques for singing in musical theatre. Staging of individual numbers and audition preparation. Two credit hours.

MUAP 2350 Songwriting
Organizational factors needed to identify the components of song form and integrate formal design and enlarged key areas into music. Designed for non-music and music majors. Three credit hours.

MUAP 3111 English Diction
Prerequisite: Consent of instructor. This course will broaden students’ understandings of English-language sounds as they are applied to both speech and classical singing and impart an understanding of the American Standard, Mid-Atlantic and British Received Pronunciation dialects. Students will be introduced to the International Phonetic Alphabet and learn its application to English-language Opera and Art Song. Frequent performances in the classroom setting will allow students to directly apply this knowledge to their performance craft.

MUAP 3112 Italian Diction
Prerequisite: MUAP 3111 with grade of C or greater, Consent of Instructor. This course will broaden students’ understandings of Italian-language sounds as they are applied to both speech and classical singing. Students will learn to transcribe Italian with the International Phonetic Alphabet and learn its application to Italian-language Opera and Art Song. Frequent performances in the classroom setting will allow students to directly apply this knowledge to their performance craft.

MUAP 3113 German Diction
Prerequisite: MUAP 3111 with grade of C or greater; Consent of Instructor. This course will broaden students’ understandings of German-language sounds as they are applied to both speech and classical singing. Students will learn to transcribe German with the International Phonetic Alphabet and learn its application to German-language Opera and Art Song. Frequent performances in the classroom setting will allow students to directly apply this knowledge to their performance craft.

MUAP 3113 French Diction
Prerequisite: MUAP 3111 with grade of C or greater, Consent of Instructor. This course will broaden students’ understandings of French-language sounds as they are applied to classical singing and distinguished from the spoken language. Students will learn to transcribe French with the International Phonetic Alphabet and learn its application to French-language Opera and Art Song. Frequent performances in the classroom setting will allow students to directly apply this knowledge to their performance craft.

MUAP 3124 Conducting I
Prerequisite: MUTH 3381 with a grade of C or greater or consent of instructor. Fundamentals of conducting, applicable to both instrumental and choral ensembles; patterns and basic conducting techniques, conducting of musical examples in both genres. One credit hour. Music majors only.

MUAP 3165 Piano Class IV
Prerequisite: MUAP 2184 with a grade of B or higher, and MUTH 3191 with grade of C or greater or consent of instructor. Beginning with an intensive review of basic functional piano skills, more advanced sight reading at the keyboard, harmonization skills, improvisation techniques, simple accompaniments, and solo piano repertoire will be explored. One credit hour. Music majors only.

MUAP 2154, 2254, 2354 Special Topics
Prerequisites: MUAP 1204, 1244; 1214, 1264; or consent of instructor. Class vocal or piano instruction in various forms of musical repertoire and style, such as musical theatre, jazz and pop, or religious solos. One, two, or three credit hours.

MUAP 3225 Conducting II
Prerequisite: MUAP 3124 with a grade of C or greater or consent of instructor. Conducting techniques relative to both choral and instrumental ensembles, including blend, balance, phrasing, diction, instrumental transposition, expressive devices and basic styles of choral/instrumental music literature; conducting of music examples in both genres. Two credit hours. Music majors only.

Courses in Music Education (MUED)

MUED 2101 Woodwind Techniques
This course is designed for students pursuing a degree in music education. Students will explore teaching techniques appropriate for public school students learning to play woodwind instruments. Students will learn the basic principles of playing by performing on each of the woodwind instruments. Topics will include ranges, fingerings, transpositions, basic instrument maintenance, method books and teaching techniques. For music majors only.

MUED 2102 Brass Techniques
This course is designed for students pursuing a degree in music education. Students will explore teaching techniques appropriate for public school students learning to play brass instruments. Students will learn the basic principles of playing by performing on each of the brass instruments and they will learn to diagnose problems typical of young players. Topics will include range of the brass instruments, fingerings, transpositions, basic instrument maintenance, method books and teaching techniques. For music majors only.

MUED 2103 Percussion Techniques
This course is designed for music education majors pursuing teaching careers in instrumental music education. Course objectives include study of rhythm, technique, sound production, repertoire, and pedagogy on snare drum, marching percussion, drumset, hand drums, timpani, and other percussion instruments. For music majors only.

MUED 2104 String Techniques
This course is designed for students pursuing a degree in music education. Students will explore teaching techniques appropriate for public school students learning to play string instruments. Students will learn the basic principles of playing by performing on each of the string instruments and they will learn to diagnose problems typical of young players. Topics will include ranges of the string instruments, fingerings, basic instrument maintenance, method books and teaching techniques. For music majors only.

MUED 2200 Foundations of Music Education
Students will explore the historical, philosophical, and social foundations of music education. Additionally, students will examine resources for music teaching and will investigate twentieth century developments in music education. For music majors only.
MUED 3214 Vocal Pedagogy
Designed as an introduction to the art and science of vocal teaching. Information on the special physiological and acoustical
conditions found in child and adolescent voices will be explored. Students will gain knowledge and understanding of the vocal
instrument and will learn to apply this knowledge to their singing
and teaching. For music majors only.

MUED 3223 Global Styles and Practices in Music Education
This course will focus on the issues, teaching materials, and
techniques involved in incorporating music cultures of the United
States and related world music repertoires in K-12 classroom
instruction. For music majors only.

MUED 3232 Early Childhood Music
The emphasis is on activities, creative projects, and developing
vocal and instrumental skills useful to the early childhood teacher
for both musical and non-musical integrated classroom activities.
Students will develop skills in making lesson plans for musical
activities and integrating music with the other arts, other subjects,
and other peoples, places, and cultures. Not open to music majors
for credit. Two credit hours.

MUED 3302 Piano Pedagogy
Prerequisite: completion of MUPR 2226 jury, and MUHL 2200, or
consent of instructor. Study of methods and pedagogical material
for piano teachers. Three credit hours.

MUED 3315 Teaching Music in Performance Ensembles
Students will explore methods and materials appropriate for
effective music teaching in school ensembles. Topics will include:
working with diverse students, selecting appropriate literature,
teaching musicianship in an ensemble setting, assessment in the
arts; and program development in bands, choirs, and orchestras.
For music majors only.

MUED 3322 Teaching General Music
Characteristics of child growth and their implications in music,
establishing music objectives, translating objectives into a
developmental sequence of experiences, understanding skills, and
knowledge. A practical course for music teachers, emphasizing
selection of music and methods of teaching of classroom music to
children in elementary school. Three credit hours.

MUED 3352 Business of Music
The entire scope of the music industry is presented in a systematic,
comprehensive review; from songwriters through publishing and
record companies to television and radio. Three credit hours.

MUED 4352 Piano Practicum
Prerequisite: MUED 302 and completion of MUPR 3226 jury. Practice
teaching and observation of class instruction in piano
at beginning levels for children and adults, and of individual
instruction in piano from elementary through intermediate levels.
Lesson plans and procedures for teaching specific concepts in
piano performance. Three credit hours.

MUED 4192, 4292, 4392 Special Studies and Workshops
Prerequisite: consent of music chairperson. Individual and
group participation in special studies and workshops in music
education. One, two, or three credit hours.

MUED 4252 Perspectives on Careers in Music
Prerequisite: must have passed the upper-level qualifying jury in
MUPR, as well as MUTH 2391 and MUTH 2292, or consent of
instructor. Course objective is to broaden the student’s
understanding of the range of careers in the world of professional
music. The course will explore music as both a creative endeavor
and as a product. Students will learn how music progresses
from artistic creation to consumable product, and how the
participants in the music business make a living utilizing skills in
marketing, performance, teaching, recording, technology, venue
management, etc. Dual listed in the Graduate Catalog as MUED
5252. MUED 5252 is not open to students who already have credit
for 4252. Two credit hours.

Courses in Applied Music – Ensemble (MUEN)

MUEN 1104, 2104, 3104, 4104 Techniques of Accompanying
Prerequisite: audition. A course designed to equip the keyboard
major to function as an accompanist. This course offers both
theoretical and practical experience. One credit hour.

MUEN 1113, 2113, 3113, 4113 University Concert Choir
Prerequisite: audition scheduled with instructor. For experienced
choral singers; open to students of any major. The concert choir is
a large, select soprano, alto, tenor, bass (SATB) choral ensemble
that performs with repertoire of selections representative of the
Renaissance through the contemporary periods. One credit hour.

MUEN 1117, 2117, 3117, 4117 Chamber Singers
Prerequisite: consent of instructor; open to students of any major.
A small, select soprano, alto, tenor, bass (SATB) choral ensemble
that performs repertoire from various stylistic periods especially
written for performance by a small ensemble. One credit hour.

MUEN 1137, 2137, 3137, 4137 Women’s Chorus
Prerequisite: Consent of instructor. Small group of soprano,
mezzo and alto voices performing a variety of music arranged
or composed for women’s voices. Includes instrumental
accompaniment. One credit hour.

MUEN 1140, 2140, 3140, 4140 Community Choir
Prerequisite: audition and consent of instructor. Open to
community members, UALR students, faculty, and staff of all
experience levels. Prepares and performs major choral literature.
May be repeated for credit. One credit hour.

MUEN 1150, 2150, 3150, 4150 Opera Performance
Prerequisite: consent of instructor; open to students of any major.
Study, through exercises and performances of acting techniques,
that aids the singing-actor in the dramatic presentation of operatic
repertoire. Once credit hour.

MUEN 1153, 2153, 3153, 4153 Jazz Ensemble
Prerequisite: consent of instructor. An ensemble studying and
performing music in the jazz and jazz-rock styles, with emphasis
on instrumental repertoire. One credit hour.

MUEN 1160, 2160, 3160, 4160 Jazz Combo
Prerequisite: consent of instructor. A small ensemble studying
and performing music in jazz styles. One credit hour.

MUEN 1167, 2167, 3167, 4167 University Gospel Chorale
A performance class that develops the execution of traditional,
standard, contemporary, and original compositions of African-
American gospel music. Vocal and instrumental techniques, as
well as ensemble and improvisational skills, will be developed
and improved. One credit hour.

MUEN 1173, 2173, 3173, 4173 Percussion Ensemble
Prerequisite: consent of instructor. A small ensemble featuring
repertoire written for a number of percussion instruments. One
credit hour.

MUEN 1183, 2183, 4183 Piano Ensemble
Prerequisite: consent of instructor. Ensemble performance
involving piano duos from various musical periods. One credit
hour.

MUEN 3183 Piano Ensemble
Prerequisites: two semesters of MUPR 2226 (applied piano),
consent of instructor. Ensemble performance involving piano
duos from various musical periods. One credit hour.

MUEN 1188, 2188, 3188, 4188 Guitar Ensemble
A performance class for guitarists and bass guitarists. Standard
and original works arranged in jazz, pop, and rock styles; will
develop reading ability, as well as ensemble and improvisational
skills. One credit hour.
MUEN 1194, 2194, 3194, 4194 Basketball Band
Prerequisite: consent of instructor. An ensemble that performs at UALR basketball games. One credit hour.

MUEN 1196, 2196, 3196, 4196 Chamber Ensembles
Prerequisite: consent of instructor. Small chamber ensembles, such as trios, quartets, quintets, of woodwinds, brass, and stringed instruments for chamber music experiences. One credit hour.

MUEN 4101 Community Orchestra
Prerequisite: consent of instructor; no audition required. Open to community members, UALR students, faculty, and staff of all experience levels. Prepares and performs music in all styles in the full orchestra medium. May be repeated for credit. One credit hour.

MUEN 4197 Indian Percussion Ensemble
Group and individual instruction in Indian percussion instruments, primarily chenda (South Indian drum), wood block (upon which chenda patterns are learned prior to instruction on the chenda), and to a lesser extent, ilattalam (cymbals) and tabla (North Indian drums). No prerequisites. Offered every semester.

**Courses in Music History and Literature (MUHL)**

MUHL 2305 Introduction to Music
Recommended prerequisite: RHET 1311. Introduction to the creative process and history of music, vocabulary and descriptive terms used in the musical arts, and how to write about them. Attendance at arts events is required. Students will learn through writing, reading, discussing, listening, and participating in critical thinking and problem-solving activities. Fulfills core requirement in aesthetics along with ARHA 2305 or THEA 2305. Three credit hours. (ACTS Course Number MUSC 1003)

MUHL 3322 Survey of Western Art Music
Prerequisite: MUHL 2305. A survey of the development of Western art music from antiquity to the present, and an introduction to selected non-Western traditions, with emphasis on the study of music literature through recordings. Required for all BA music major emphases. Lecture. Three credit hours.

MUHL 3331 Music History I
Prerequisite: MUHL 3331 and a reading knowledge of music. A continuation of Music History I. A survey of the development of music in western civilization from 1750 to the present, as well as in selected non-western cultures during that time period with emphasis on the study of music through scores and recordings. Required for all music majors.

MUHL 3341 Music History II
Prerequisites: MUHL 3331, MUTH 2391. A continuation of Music History I. A survey of music in Western civilization from 1750 to the present. Three credit hours.

MUHL 3351 The History of Rock
A study of the evolution of rock music from its pre-rock origins to the present. Three credit hours.

MUHL 3361 Jazz History and Styles
A study of the development and styles of jazz and its principal exponents. Three credit hours.

MUHL 3371 Non-Western Music
Prerequisite: MUHL 2305 or consent of instructor. A study of selected areas of world music outside Europe and North America through a variety of approaches: playing the music, clapping or singing, listening, studying it in its cultural context. Satisfies music literature requirement for music majors and minors. Three credit hours.

MUHL 3381 American Music
Prerequisite: MUHL 2305 or consent of instructor. A study of American musical traditions of the last four centuries, including classical, ragtime, jazz, blues, slave music, spirituals, gospel, musical theatre, white Protestant, popular, rock, American Indian, and country. Satisfies music literature requirement for music majors and minors. Three credit hours.

MUHL 3391 Opera
Prerequisite: MUHL 2305 or consent of instructor. A survey of the development of opera, with emphasis on the study of opera through scores and videos. Especially recommended for voice majors and minors with an interest in opera. Offered every two years (Fall).

MUHL 3393 Choral Music History
Prerequisite: MUHL 2305 or consent of instructor, and a reading knowledge of music. A survey of the development of choral music through scores and recordings. Especially recommended for voice majors and minors with an interest in choral music. Offered every two years (Spring).

MUHL 4191, 4291, 4391 Special Studies
Prerequisite: consent of music chairperson. Special individual or group research in music history. One, two, or three credit hours.

MUHL 4311 Vocal Literature
Study of solo literature, history and materials for singers, including lieder, arias, songs, and song cycles. Three credit hours.

MUHL 4374 Piano Literature I
Prerequisite: MUED 3302, or consent of instructor. Study of solo piano literature, including Baroque preludes and fugues, dance suites, toccatas, Classical sonatas, and theme and variation sets, up to about 1800. Three credit hours.

MUHL 4377 Piano Literature II
Prerequisite: MUHL 4374, or consent of instructor. Continuation of Piano Literature I, with emphasis on Romantic études and character pieces, sonatas, and twentieth-century works. Three credit hours.

**Courses in Music Theory (MUTH)**

MUTH 1211 Rhythmic Skills
The rhythmic component of the music fundamentals package. This course will help develop the rhythmic control, accuracy, and notation skill necessary for performance, composition, and music education. Class time will be devoted primarily to ensemble performance of rhythms and development of rhythmic sight-reading ability. Lecture and laboratory. Two credit hours.

MUTH 1310 Music Fundamentals
This course is designed to serve as a music fundamentals course for the non-major. Students will learn about the fundamental rhythmic, melodic, and harmonic practices in Western music and the notational terms and symbols commonly used to communicate these aspects of a musical language. In addition to the study of written materials, students participating in this class will gain basic keyboard knowledge, basic aural skills and fundamental theory concepts. Three credit hours.

MUTH 1381 Introduction to Theory
Foundation course in music theory for the music major. Topics include fundamental rhythmic, melodic, and harmonic practices in Western music and the notational terms and symbols commonly used to communicate these aspects of a musical language. In addition to the study of written materials, students participating in this class will gain basic keyboard knowledge and basic aural skills practices. Three credit hours.
MUTH 2192 Aural Skills I
Prerequisites: MUTH 1381 and MUAP 1114 with a grade of C or greater. Corequisites: MUAP 1164 and MUTH 2381. This course is a lab course for MUTH 2381. Diatonic music will be the focus of sight singing and dictation exercises in simple and compound meters. Rhythmic reading with conducting patterns. Listening techniques will include error detection, interval, scale and chord identification, triad factor identification, melodic, rhythmic dictation. 1 credit hour. (Spring)

MUTH 2193 Aural Skills II
Prerequisites: MUTH 2192, MUTH 2381 and MUAP 1164 with a grade of C or greater. Corequisites: MUTH 2391 and MUAP 2184. This course is a lab course for MUTH 2391. A continuation of MUTH 2193. Simple chromatic usage will be featured in melodic and harmonic dictation exercises and sight singing. Rhythms in simple and compound meters with varying subdivisions. 1 credit hour.

MUTH 2381 Music Theory I
Prerequisites: MUTH 1381 with a grade of C or greater; Corequisite: MUTH 2192. This course is designed as a continuing music theory course for the music majors and music minors. This course will fulfill the MUTH requirement for the minor. Students will learn about cadences, non-harmonic tones, voice leading in four voices, harmonic progression and harmonic rhythm, dominant seventh chords, leading-tone seventh chords, and non-dominant seventh chords. Three credit hours.

MUTH 2391 Music Theory II
Prerequisites: MUTH 2381 and MUTH 2192 with a grade of C or greater. Corequisite: MUTH 2193. Students will build on MUTH 2381 Theory I knowledge of rhythm, melody, and harmony by learning about and gaining mastery of the structural elements of music primarily from the Classical era, but also from the Baroque and Romantic eras in Western music. Students will gain basic keyboard knowledge and aural skills of the 17th- and 18th century theoretical concepts through the use of computer-based theory tutorial software (MacGamut CAI), vocal part-writing exercises, and score study. Three credit hours.

MUTH 3120, 3220, 3320 Special Topics
Prerequisite: four semesters of theory or consent of instructor based on placement examination. Harmonic or formal practices and styles such as fugue, sonata form, serial composition, or form and analysis. One, two, or three credit hours.

MUTH 3192 Aural Skills III
Prerequisites: MUTH 2192, MUTH 2391, MUAP 2184 with a grade of C or greater. Corequisite: MUTH 3381 and MUAP 3165. This course is a lab course for MUTH 3381. A continuation of MUTH 2193, including more advanced ear training and sight singing. 1 credit hour.

MUTH 3231 Form and Analysis
Prerequisite: MUTH 2292, 2391, grades of C or greater for declared music majors or consent of instructor or department advisor. A survey of forms, shapes and genres in music of the common practice period (1600-1900) emphasizing the designations and categories of form. Principles of variety and unity and the language of musical analysis in standard tonal structure will be the topic of study. Two credit hours.

MUTH 3330 Jazz Theory
A theoretical survey of jazz harmonic, melodic, and rhythmic principles beginning with blues and modal vehicles. Lecture and laboratory. Three credit hours.

MUTH 3381 Music Theory III
Prerequisites: MUTH 2391, MUTH 2193 and MUAP 2184 with a grade of C or greater. Corequisite: MUTH 3192 and MUAP 3185. This fourth course in the music theory sequence will predominately focus on the chromatic elements found in texture, harmony, and melody of the music of the Romantic era as well as some of the chromatic elements within the Classical and Baroque eras of Western music. Students will gain and demonstrate knowledge of the period through written traditional Roman numeral score analysis, macro-analysis, chord building exercises, four-voice part-writing exercises, choral, keyboard, chamber instrumental music, and performance of keyboard reductions of sections from a variety of symphonic works; and, identify both aurally and through written score analysis characteristic modalities, harmonies (diatonic and chromatic), phrase and cadence types, and structural components of typical Beethoven, Chopin, and Wolf instrumental and vocal composition. Three credit hours.

MUTH 4310 Arranging
Prerequisite: MUTH 2391. A study of the characteristics and styles of arranging for band, orchestral instruments, and chorus. A historical survey of choral and instrumental writing in the Renaissance, Baroque, Classical, Romantic and Twentieth Century, with arranging exercises for each period. Three credit hours.

MUTH 4320 Basic Composition
Prerequisite: MUTH 2391 or consent of instructor. A study of methods and styles of musical compositions written by students. Various methods of beginning an original composition are discussed and demonstrated in addition to lectures and demonstrations on the small forms of composition. Students have the opportunity to apply prior theory knowledge and receive individual attention. Three credit hours.

MUTH 4340 Jazz Composition
Prerequisite: MUTH 3330 or consent of instructor. In this course, students write original compositions in the jazz idiom for varied media. Three credit hours.

MUTH 4190, 4290, 4390 Special Studies
Prerequisite: consent of music chairperson. Special individual or group research in music theory. One, two, or three credit hours.

MUTH 4230 Advanced Composition
Prerequisites: MUTH 2391, 4320, consent of instructor and approval of chair. Individual study of methods and styles of musical composition. May be repeated for credit. Two credit hours.
Courses in Private Lessons (MUPR)

Credits earned on the basis of lesson duration. An upper-level course number implies advanced proficiency in performance technique and repertoire.

- MUPR 1xxx-Minor or elective study, may be repeated for credit
- MUPR 2xxx-First-year principal performance area for music major, 2 semesters. By audition only.
- MUPR 3xxx-Second-year major study, 2 semesters. By passing jury for MUPR 2xxx only.
- MUPR 4xxx-Optional third-year major study, 2 semesters. By passing jury for MUPR 3xxx only (may be repeated for credit).

A one-credit lesson means a 30-minute lesson weekly, and requires a minimum of one hour of daily practice. A two-credit lesson means a 55-minute lesson weekly, and requires a minimum of two hours of daily practice. BA music majors are expected to perform at least once per year in a public recital such as Student Recital Hour.

An applied music fee is charged for all individual instruction. See “Tuition and Fees.” Audition repertoire guidelines are available from the instructor in each performance area, and on the department website.

Areas of instruction offered:

<table>
<thead>
<tr>
<th>05 Trumpet</th>
<th>51 Electric Bass Guitar</th>
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<tbody>
<tr>
<td>06 Percussion</td>
<td>55 Flute</td>
</tr>
<tr>
<td>15 French Horn</td>
<td>56 Violin</td>
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<tr>
<td>16 Voice</td>
<td>65 Clarinet</td>
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<td>17 MIDI</td>
<td>66 Viola</td>
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<td>25 Trombone</td>
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<td>26 Piano</td>
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<tr>
<td>27 Jazz Piano</td>
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<td>28 Improvisation</td>
<td>79 Electric Guitar</td>
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<td>35 Euphonium</td>
<td>85 Bassoon</td>
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<td>36 Harpsichord</td>
<td>86 String Bass</td>
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<tr>
<td>45 Tuba</td>
<td>87 Jazz Bass</td>
</tr>
<tr>
<td>46 Organ</td>
<td>95 Saxophone</td>
</tr>
<tr>
<td>50 Classical Guitar</td>
<td>96 Harp</td>
</tr>
</tbody>
</table>

MUPR 3000 Junior Recital
Prerequisite: Consent of instructor. Performance of a 30-minute recital by students completing the third year of their music study.

MUPR 4000 Junior Recital
Prerequisite: Consent of instructor. Performance of a 60-minute recital by students completing the fourth year of their music study.
The Department of Philosophy and Interdisciplinary Studies offers undergraduate instruction leading to the baccalaureate degree in philosophy, a minor in religious studies, and a minor combining study in philosophy and religious studies. Students may choose to pursue a course of study within the baccalaureate degree in philosophy that emphasizes legal and moral studies that is designed to prepare them for early acceptance into UALR’s William H. Bowen School of Law. The department also coordinates an undergraduate degree in Interdisciplinary Studies. For more information, see our website.

## General Information

### Major in Philosophy

Why study philosophy? Because making a living is not the same as having a life. In Plato’s *Republic*, Socrates tells a story about the navigator on a ship who is thrown overboard by the sailors, who see him as a useless stargazer: What is useful depends on whether you are focused on the task of steering the ship or the science of guiding it. To decide the right course of action, to wonder if a law is just, to analyze a speech or an article in the newspaper, to ask what you can do to help others or yourself, to engage any of the issues that make our lives worthwhile and meaningful-is to do philosophy. The choice is not whether to do philosophy, but whether to do it well or poorly, to live or merely exist.

Because it is practical. When you study philosophy you learn how to think critically about any topic. That is why philosophy majors consistently score higher than other majors on the LSAT, GMAT, and GRE tests. The ability to think critically, argue persuasively, and solve problems-which are the foci of philosophical training-have become increasingly necessary for success in the rapidly changing work environment in which we live. The study of philosophy is an excellent preparation for the study of law, medicine, business, or theology.

### Bachelor of Arts in Philosophy

#### General:
120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

#### First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

#### Core (44 hours)
See page 25 for requirement details.

#### Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

#### Major (30 hours)

##### Philosophy Foundation Courses (6 hours)
PHIL 1310 Introduction to Philosophy
PHIL 1330 Critical Thinking or
PHIL 2350 Logic

##### Subfields (12 hours)

- **History (6 hours)**
  - PHIL 3320 Modern Philosophy
  - PHIL 3321 19th and 20th Century
  - PHIL 3345 Ancient Greek Philosophy
  - PHIL 4385 Seminar in History of Philosophy

- **Moral and Political (3 hours)**
  - PHIL 3335 Medical Ethics
  - PHIL 3341 Contemporary Ethical Theory
  - PHIL 3347 Philosophy of Law
  - PHIL 4350 Classical Political Theory

- **Mind, Knowledge and Culture (3 hours)**
  - PHIL 3320 Modern Philosophy
  - PHIL 3335 Medical Ethics
  - PHIL 4315 Philosophy and Narrative
  - PHIL 3370 Existentialism
  - PHIL 3372 Philosophy and the Arts
  - PHIL 4333 Feminist Theory
  - PHIL 4373 Philosophy of Race
  - PHIL 4380 Topics in Philosophy
  - PHIL 4390 Independent Study

- **Philosophy Electives (12 hours)**
  - 9 hours must be at the upper level. Any unused course from above and:
    - PHIL 2320 Ethics and Society
    - PHIL 3315 Philosophy and Narrative
    - PHIL 3370 Existentialism
    - PHIL 3372 Philosophy and the Arts
    - PHIL 4333 Feminist Theory
    - PHIL 4373 Philosophy of Race
    - PHIL 4380 Topics in Philosophy
    - PHIL 4390 Independent Study

#### Minor (12-29 hours—typical minor requires 18)

- **Unrestricted General Electives**
  - Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Joint Bachelor of Arts degree in Philosophy (emphasis in Legal and Moral Studies) and Juris Doctor degree

The emphasis on legal and moral studies within the philosophy major is a cooperative program between the Department of Philosophy and the UALR William H. Bowen School of Law. This early acceptance program allows students to earn a BA and juris doctor (JD) in six years of full-time study (effectively fulfilling their minor requirements with their first successful year at the Law School), and grants acceptance into the UALR School of Law to those students who maintain the required standing in the program and fulfill certain requirements. Students in the program enter the School of Law in the beginning of their fourth year of undergraduate study. At the end of successful completion of the first year of the law curriculum, the students are awarded a BA in philosophy. At the end of their third year of study (or equivalent) at the School of Law, they are awarded a JD. For more information about the joint program, visit our website.

To achieve early admittance to Bowen, students must meet the following requirements:
• A major in philosophy with an emphasis in legal and moral studies.
• A grade point average of 3.5 or above.
• An LSAT score in the 75th percentile.
• Completion of all UALR Core Curriculum requirements, including the requirement of foreign language proficiency.

Once accepted to Bowen, students must take one of the jurisprudence courses offered there in their second or third year of law school study.

Students who do not meet these criteria may complete their undergraduate degree and apply to the William H. Bowen School of Law at the end of the equivalent of their fourth year of undergraduate study.

The program gives students early acceptance into the Bowen School of Law after their third year of undergraduate study (or 94 credit hours). Upon completion of a major in philosophy, the core curriculum, and the language requirement, students with a 3.5 GPA and an LSAT score in the 75th percentile are allowed to apply for admission to the Bowen School of Law. Students who participate in the program earn their B.A. degree upon successful completion of the first year at Bowen. The J.D. is awarded after two more years of law school. The first year of law school thus counts as the final year of undergraduate studies; students save themselves 30 credit-hours of undergraduate coursework.

Bachelor of Arts in Philosophy and Juris Doctor Degree

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence. This is a joint program between the department of philosophy and interdisciplinary Studies and The UALR William H. Bowen School of Law.

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (30 hours)

Philosophy Foundation Courses (6 hours)
PHIL 1310 Introduction to Philosophy
PHIL 1330 Critical Thinking or
PHIL 2350 Logic

Subfields (12 hours)
History (6 hours)
PHIL 3320 Modern Philosophy
PHIL 3321 19th and 20th Century
PHIL 3345 Ancient Greek Philosophy
PHIL 4385 Seminar in History of Philosophy

Moral and Political (3 hours)
PHIL 3335 Medical Ethics
PHIL 3341 Contemporary Ethical Theory
PHIL 3347 Philosophy of Law (recommended)
PHIL 4350 Classical Political Theory
PHIL 4360 Modern Political Theory
PHIL 4386 Seminar in Social/Political
PHIL 4387 Seminar in Moral Philosophy

Mind, Knowledge and Culture (3 hours)
PHIL 3310 Theories of Knowledge
PHIL 3312 Science and Culture
RELS 3350 Eastern Thought
RELS 3360 Philosophy of Religion
PHIL 4388 Seminar in Metaphysics and Epistemology

Philosophy Electives (12 hours)
9 hours must be at the upper level. Any unused course from above and:
PHIL 2320 Ethics and Society (Also counts towards the core)
PHIL 3315 Philosophy and Narrative
PHIL 3370 Existentialism
PHIL 3372 Philosophy and the Arts
PHIL 4333 Feminist Theory
PHIL 4373 Philosophy of Race
PHIL 4380 Topics in Philosophy
PHIL 4390 Independent Study

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Interdisciplinary Studies
The major/minor program allows the student to combine aspects of several academic disciplines both within and outside of the College of Arts, Humanities, and Social Sciences (CAHSS). Interested students should contact Carmen Robinson at (501) 569-8205 or by email at ccrobinson@ualr.edu. For more information about the Interdisciplinary Studies major, visit the website: ualr.edu/ba/liba/.

Bachelor of Arts in Interdisciplinary Studies

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (60 hours)

Required Courses (6 hours)
LIST 3310 Reasoning Across the Disciplines
LIST 4310 Liberal Arts Colloquium

Three Disciplines of Study (18 hours in each; 54 hours total).
Two Disciplines must be within the College of Arts, Humanities and Social Sciences.

Minor (none required)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in Interdisciplinary Studies Online

The major in Interdisciplinary Studies is a completer program that can be completed wholly online. Interested students should contact Angela Bell at (501) 569-3411 or by email at arbell@ualr.edu. Program requirements are the same as the on campus program, but the areas that can be completed on line are limited to the following areas within the College of Arts, Humanities, and Social Sciences:

<table>
<thead>
<tr>
<th>History</th>
<th>Professional and Technical Writing</th>
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<tbody>
<tr>
<td>Legal Studies</td>
<td>Psychology (General)</td>
</tr>
<tr>
<td>Philosophy and Religious Studies</td>
<td>Sociology</td>
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<tr>
<td>Political Science</td>
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</tbody>
</table>

Areas outside the College of Arts, Humanities, and Social Sciences:

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<tr>
<th>Criminal Justice</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health, Human Performance &amp; Sport Management</td>
<td>Mathematics</td>
</tr>
<tr>
<td></td>
<td>Speech Communication</td>
</tr>
</tbody>
</table>

For more information about the Interdisciplinary Studies major online, visit ualr.edu/ ba/laol/.

Minor in Philosophy (18 hours)

Foundation: 2 courses, 6 hours Required
PHIL 1310 Introduction to Philosophy
PHIL 1330 Critical Thinking
or PHIL 2350 Logic

Electives: 4 courses, 12 hours Required
PHIL 2320 Ethics and Society
PHIL 3310 Theories of Knowledge
PHIL 3312 Science and Culture
PHIL 3315 Philosophy and Narrative
PHIL 3320 Modern Philosophy
PHIL 3321 19th and 20th Century Philosophy
PHIL 3335 Medical Ethics
PHIL 3341 Contemporary Ethical Theory
PHIL 3345 Ancient Greek Philosophy
PHIL 3347 Philosophy of Law
RELS 3350 Eastern Thought
RELS 3360 Philosophy of Religion
PHIL 3370 Existentialism
PHIL 3372 Philosophy and the Arts
PHIL 4333 Feminist Theory
PHIL 4350 Classical Political Theory
PHIL 4350 Modern Political Theory
PHIL 4373 Philosophy of Race
PHIL 4380 Topics in Philosophy
PHIL 4385 Seminar in History of Philosophy
PHIL 4386 Seminar in Social / Political
PHIL 4387 Seminar in Moral Philosophy
PHIL 4388 Seminar in Metaphysics and Epistemology
PHIL 4390 Independent Study

Minor in Philosophy/Religious Studies (18 hours)

3 required foundation courses (9 hours)
PHIL 1310 Introduction to Philosophy
PHIL 1330 Critical Thinking
or PHIL 2350 Logic
RELS 2305 World Religions

3 elective courses (9 hours)
1 upper-level course in Philosophy (PHIL)
1 upper-level course in Religious Studies (RELS)
1 elective course in either Philosophy or Religious Studies

Minor in Religious Studies (18 hours)

Most people experience religion from within some particular religious tradition. However, to study religion from the academic standpoint is to adopt the perspective of a detached but empathetic observer. Using the tools and methodologies of the humanities and social sciences, the student of religion seeks to better understand the perspective of religious people, to map and explain the various elements of religious life, and finally, to evaluate the claims made by religious people and the role of religion in human life.
Courses in Interdisciplinary Studies (LIST)

LIST 3310 Reasoning Across the Disciplines
Students will study interdisciplinary processes and concerns that apply to the liberal arts, including reading and thinking critically, making effective arguments, exploring research techniques, and writing effectively. Three credit hours.

LIST 4310 Liberal Arts Colloquium
A capstone course. Students will employ interdisciplinary methodology and critical thinking skills to examine and evaluate an interdisciplinary topic. The development and presentation of an interdisciplinary thesis/project will also be required. Three credit hours.

Courses in Philosophy (PHIL)

PHIL 1110 Introduction to Ethics
Overview of ethical theory and moral reasoning; case-based approach emphasizing ethical issues in business and technology. Same as IFSC 1110. One hour lecture per week. One credit hour.

PHIL 1310 Introduction to Philosophy
Prerequisite: RHET 1311. Survey of basic themes in philosophy. Addresses such fundamental concerns as the nature of morality and beauty, the reasonableness of religious conviction, the nature of persons and the existence of free will, the status of animals and the environment, the relation of mind and body, the structure of a just society, and the nature of art through discussion and analysis of readings. Three credit hours. (ACTS Course Number PHIL 1103)

PHIL 1330 Introduction to Critical Thinking
An introduction to reasoning skills. Focus on the recognition of informal fallacies, the nature, use, and evaluation of arguments, and the characteristics of inductive and deductive arguments. Three credit hours. (ACTS Course Number PHIL 1003)

PHIL 2320 Ethics and Society
Prerequisite: RHET 1311. Study of selected texts reflecting a variety of ethical systems from Western and non-Western literary heritages and ethical traditions. Assigned works represent several national ethical literatures, with at least one major ethical text from each of four periods (antiquity, medieval, early modern, and contemporary). Three credit hours.

PHIL 2350 Introduction to Logic
Prerequisite: instructor consent. Introduction to deductive logic including translation of sentences into formal systems, immediate inferences, syllogisms, formal fallacies, proofs of validity, and quantification. Three credit hours.

PHIL 3310 Theories of Knowledge
Prerequisite: PHIL 1310 or PHIL 2320 or instructor consent. Introduction to the field of epistemology. Skeptical and realist positions will be assessed by analyzing internal and external accounts of knowledge (including coherence, foundation, naturalized, and relativist theories). The connection between epistemology and artificial intelligence will also be examined. Three credit hours.

PHIL 3312 Science and Culture
Prerequisite: PHIL 2320 or PHIL 1310 or consent of instructor. Examination of the methods, presuppositions, and implications of empirical science. Special emphasis will be given to the metaphysical assumptions that ground the scientific enterprise, and the interface between the pursuit of science and the moral interests of society. Three credit hours.

PHIL 3315 Philosophy and Narrative
This course will focus on philosophical issues relevant to one or more of the following topic areas: philosophical issues in literature and film, theories of drama and performance, the politics of narrative, and recent hermeneutical theory. Three credit hours.

PHIL 3320 Modern Philosophy
Prerequisite: PHIL 1310 or PHIL 2320, or instructor consent. This course will examine the writings of early modern philosophers (including Descartes, Locke, Berkeley, Hume, and Kant) and their influence on nineteenth century philosophers (including Hegel, Marx, and Kierkegaard). Three credit hours.

PHIL 3321 19th and 20th Century Philosophy
Prerequisite: PHIL 1310, or PHIL 2320, or instructor consent (granted on the basis of similar preparation). This course investigates American, British and/or continental European philosophy after the eighteenth century, with an emphasis on selected major figures, works, or themes. Three credit hours.

PHIL 3335 Medical Ethics
Prerequisite: PHIL 1310 or PHIL 2320 or instructor consent. Analysis of ethical issues in medicine affecting patients, healthcare workers, and the public. Materials drawn from medical, legal, philosophical, and psychiatric sources, addressing such issues as euthanasia, abortion, assisted suicide, involuntary commitment, resource distribution, AIDS, and health insurance. Three credit hours.

PHIL 3341 Contemporary Ethical Theory
Prerequisite: PHIL 1310, or PHIL 2320, or instructor consent (granted on the basis of similar preparation). This course examines some fundamental issues in 20th-21st century ethical theory. In addition to exploring recent defenses and criticisms of leading normative theories, the course focuses on recent work in meta-ethics-in particular, debates about moral realism and non-realism. Three credit hours.

PHIL 3345 Ancient Greek Philosophy
Prerequisite: PHIL 1310 or PHIL 2320 or instructor consent. Philosophical positions of ancient Greek philosophers (Plato, Aristotle, Epicurus, and others) and their influence on medieval philosophers (Augustine, Aquinas, Averroes, and others). Three credit hours.
PHIL 3347 Philosophy of Law
Prerequisite: PHIL 2320 or PHIL 1310 or consent of instructor. Examination of topics and areas of study in jurisprudence such as the justification for coercion and punishment; the nature, moral foundation, and authority of law; liberty and freedom of expression under the law; feminist legal theory; critical race theory and other contemporary challenges. Three credit hours.

PHIL 3350 Eastern Thought
Prerequisite: 3 hours of Philosophy, or 3 hours of Religious Studies, or instructor consent. Survey of the beliefs, practices, and group structures of the major Eastern religious and social traditions (including Hinduism, Mahayana and Zen Buddhism, Shintoism, and Confucianism). Three credit hours.

PHIL 3360 Philosophy of Religion
Prerequisite: 3 hours of Philosophy, or 3 hours of Religious Studies, or instructor consent. Major issues in the philosophy of religion including the knowledge of God, the problem of evil, life after death, religious language and experience, and the relationship of faith and reason. Three credit hours.

PHIL 3370 Existentialism
Prerequisite: introductory philosophy course or instructor consent. Survey of the existential philosophers of the nineteenth and twentieth centuries including Kierkegaard, Nietzsche, Heidegger, Sartre, Camus, Jaspers, Marcel, and Tillich. Three credit hours.

PHIL 3372 Philosophy and the Arts
This course investigates influential historical and/or contemporary contributions to aesthetics, philosophy of the arts, and philosophy of arts criticism. Topics may include: the nature of art and beauty; principles of criticism, standards of taste, and uniquely correct interpretations; the nature of an appropriate response to an artwork; the reality of aesthetic properties; and the relations between art, morality, and emotion. Three credit hours.

PHIL 4333 Feminist Theory
This course will study major issues in feminist theory, including historical and contemporary debates, and seeks a broad understanding of the development of various strands of feminist thought and the resulting range of interpretive possibilities. It may include explorations of feminist perspectives on epistemology, metaphysics, social and political theory, and ethics, as well as race, class, sexuality, and nationality. Three credit hours.

PHIL 4350 Classical Political Theory
Prerequisite: POLS 1310 or junior standing. Major political ideas and doctrines of political thinkers from Plato to Montesquieu, with emphasis on the contributions of each to the theory and practice of government. Dual-listed in the UALR Graduate Catalog as POLS 5380. Three credit hours.

PHIL 4360 Modern Political Theory
[See course description for POLS 4390 Modern Political Theory.]

PHIL 4373 Philosophy of Race
This course is an introduction to the philosophy of race and ethnicity. It will explore the philosophical assumptions behind concepts of race, including: 1) historical origins and contemporary views of race and racial identities; 2) the intersection of racism and other forms of oppression; or 3) race in the history of philosophy.

PHIL 4280, 4380 Topics in Philosophy
Feminism, philosophy of art, metaphysics, and race theory are possible topics. Topics and course offering varies on demand. Two or three credit hours.

PHIL 4385 Seminar in History of Philosophy
Prerequisites: Phil 1310 and PHIL 2320 or Instructor Consent. This seminar allows participants to pursue intensive study of a pivotal movement or central figure in the history of philosophy or the development of a particular idea. Topics may include Plato, Hellenistic Philosophy, Stoicism, Skepticism: Ancient and Modern, German Idealism, Marx and Marxism, Rationalism, Logical Positivism, Analytic Philosophy, or Post-structuralism. Three credit hours.

PHIL 4386 Seminar in Social/Political Philosophy
Prerequisites: Phil 1310 and PHIL 2320 or Instructor Consent. This seminar allows participants to pursue intensive study of a pivotal movement or central figure in the history of philosophy or the development of a particular idea. Topics may include Plato, Hellenistic Philosophy, Stoicism, Skepticism: Ancient and Modern, German Idealism, Marx and Marxism, Rationalism, Logical Positivism, Analytic Philosophy, or Post-structuralism. Three credit hours.

PHIL 4387 Seminar in Moral Philosophy
Prerequisites: Phil 1310 and PHIL 2320 or Instructor Consent. This seminar offers an opportunity to either explore in greater depth a topic within metaphysics or epistemology that has been introduced in other courses offered by the department or explore a topic that is not covered in other regularly offered courses. Three credit hours.

PHIL 4388 Seminar in Metaphysics / Epistemology
Prerequisites: Phil 1310 and PHIL 2320 or Instructor Consent. This seminar offers an opportunity to either explore in greater depth a topic within metaphysics or epistemology that has been introduced in other courses offered by the department or explore a topic that is not covered in other regularly offered courses. Three credit hours.

PHIL 4290, 4390 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. Two or three credit hours.

Courses in Religious Studies (RELS)

RELS 2305 World Religions
Prerequisite: RHET 1311 recommended. Examines the global patterns of contemporary world religions as symbol systems and expressions of discrete, coherent world views. Three credit hours.

RELS 2333 Introduction to Religious Studies
An introduction to the study of religion. The theme may vary, but the course will highlight central issues that arise in studying religion from the academic standpoint—for example: the definition of religion, its characteristic features and functions, the “insider” vs. “outsider” perspective, the challenges that arise in comparing religions, and attempts to explain the origin of religion. Three credit hours.

RELS 3320 Christianity
Prerequisite: RELS 2305 or consent of instructor. A survey of major developments in the history of Christian thought from its origins in the New Testament through the Protestant Reformation. Three credit hours.

RELS 3330 Religious Countercultures
A cross-cultural survey of sects and cults throughout history, emphasizing contemporary groups in America. Examination of relevant issues concerning cults; the definitions of sect and cult; the relationship between cults and mainstream religions; brainwashing, deprogramming, government regulation. Same as ANTH 3366. Three credit hours.

RELS 3333 Reading Sacred Texts
This course is designed to provide both an opportunity to examine the texts of a particular religious tradition in detail and to introduce students to interdisciplinary methods for interpreting such texts. Three credit hours.

RELS 3336 Islam
Prerequisite: RELS 2305 or consent of instructor. An examination of the role of Islam as the primary cohesive element in the social, political, and cultural development of the modern Middle East. Comparison and contrast of Western and Middle Eastern perspectives on relevant current issues. Same as HIST 3336. Three credit hours.
**RELS 3338 Religion and Modern South Asia**  
The role of religion (Hinduism, Buddhism, Islam, Christianity) in the formulation of South Asian responses to the processes of Anglicization, Westernization, and Modernization. Same as HIST 3338. Three credit hours.

**RELS 3340 Meditation Techniques**  
Theoretical framework for understanding the meditation experience, namely, Jung’s depth psychology, yoga psychology, and Buddhist psychology; training in specific meditation techniques of various religious traditions, including Hatha Yoga, Zen, and the Silence, as well as the self-analysis of dreams. Three credit hours. Cross-listed as PYSC 3340.

**RELS 3350 Eastern Thought**  
Prerequisite: 3 hours of Philosophy, or 3 hours of Religious Studies, or instructor consent. Survey of the beliefs, practices, and group structures of the major Eastern religious and social traditions (including Hinduism, Mahayana and Zen Buddhism, Shintoism, and Confucianism). Three credit hours.

**RELS 3360 Philosophy of Religion**  
Prerequisite: 3 hours of Philosophy, or 3 hours of Religious Studies, or instructor consent. Major issues in the philosophy of religion including the knowledge of God, the problem of evil, life after death, religious language and experience, and the relationship of faith and reason. Three credit hours.

**RELS 3363 Psychology of Religion**  
See PSYC 3363. Three credit hours.

**RELS 3370 Judaism**  
Prerequisite: RELS 2305 or consent of instructor. A survey of major developments in the history of Jewish thought from its origins in the Hebrew Bible through the present. Three credit hours.

**RELS 4180, 4280, 4380 Topics in Religion**  
Prerequisite: consent of instructor. Analysis of selected issues in religious studies. Course content will change. For descriptive title of the content, refer to the semester class schedule. One, two, or three credit hours.

**RELS 4313 Apocalypse Now…and Then: A History of Apocalyptic Thought and Movements**  
See HIST 4313.

**RELS 4315 Religious History of the United States**  
See HIST 4315.

**RELS 4321 Religion, Society, and Culture**  
Introduction to the role of shamans, witches, diviners, cultic and magic belief systems, function of myth, ritual, religious symbolism, meaning of spirit possession, revitalization, and ancestor worship in tribal, peasant, and modern societies. Same as ANTH 4321. Three credit hours.

**RELS 4180, 4280, 4380 Topics in Religion**  
Prerequisite: consent of instructor. Analysis of selected issues in religious studies. Course content will change. For descriptive title of the content, refer to the semester class schedule. One, two, or three credit hours.

**RELS 4385 Seminar in Major Religions**  
This course provides for a more in-depth examination of a particular religious tradition. The tradition is typically non-Western and varies by semester. Check with the department for details. Three credit hours.

**RELS 4290, 4390 Independent Study**  
Prerequisites: consent of instructor, see philosophy website for independent study guidelines. Selective reading and a formal written project on a topic submitted by the student and approved by the instructor at a conference in advance of registration. Open only to students with demonstrated ability to write research papers of superior quality in religious studies. Applicants unknown to the instructor should submit academic transcripts and samples of their research papers in religious studies. Two or three credit hours.
The Department of Political Science offers courses for students interested in understanding government and politics at the international, national, state, and local levels.

The mission of the department is to provide students with both a substantive knowledge of politics and the skills necessary to make use of that knowledge effectively, not only as private citizens participating in a democracy, but also in a wide range of careers. The department has implemented a program of assessment to measure achievement of these objectives. Students in the department are exposed to both the theory and practice of politics. The department’s faculty covers a broad range of substantive specializations, encompassing American politics, comparative politics, constitutional law, international relations, and political theory. Courses in the department also strive to instill in students a number of important skills, including critical thinking, analysis, writing, and the practical application of ideas to real world situations. The combination of substantive knowledge and practical skills instilled by courses in the department provides a solid background to help our students to excel as leaders in a variety of fields, including politics, government service, law, teaching, and business.

| Chairperson: | Giammo, Joseph D., Associate Professor |
| Professors: | Anderson, Joel E. |
| | English, Arthur J. |
| | Rice, Daryl H. |
| | Scranton, Margaret E. |
| Associate Professor: | Drummond, Andrew |
| Assistant Professor: | Glazier, Rebecca |
| Instructor: | Clemmer, Ann V. |

### General Information

#### Knowledge Goals

Students majoring in political science will be exposed to a wide range of substantive information about the world of politics, covering subjects such as:

- The history, characteristics, and impact of political institutions and systems, including international, national, state, and local governments
- The behavior of individual actors at both the mass and elite levels
- The processes involved in creating government policy and the impact of those policies
- The debates over the normative foundations of the state, the scope of its activities, and the nature of justice

#### Skill Goals

Students majoring in political science will develop practical and marketable skills which will help them to apply that knowledge to any number of career paths. These skills include:

- **Critical thinking** - the ability to read and evaluate primary texts, ideas, theories, and political analysis
- **Analysis/Research** – the ability to pose and answer questions effectively
- **Argumentation/Persuasion** – the ability to use logic and evidence to build a persuasive argument
- **Written and Verbal Communication** - the ability to communicate ideas clearly on paper or through oral presentations
- **Working in Groups** – the ability to effectively coordinate with others on a project
- **Practical Applications** – the ability to take information gained through coursework and use it effectively in real world or simulated exercises

### Degrees Available

The Department offers the following majors and minors:

- BA in Political Science
- BA in International Studies (Interdisciplinary Program)
- Minor in Political Science
- Minor in International Studies (Interdisciplinary Program)
- Minor in Middle Eastern Studies
- Minor in Presidential Studies

### Secondary Teacher Licensure

See “Secondary Teacher Licensure” for details and contact the Department of Political Science as soon as possible for program advising.

### Minor in Political Science

A minor in political science requires 18 credit hours, including POLS 1310 American National Government, POLS 2301 Introduction to Political Science, and at least 9 hours of upper-level courses.
Bachelor of Arts in Political Science

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (x hours)**
See page 25 for requirement details.

**Second Language Proficiency (0-x hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (33 hours)**

**Political Science Foundation Courses (6 hours)**
- POLS 1310 American National Government (Also counts toward the core)
- POLS 2301 Introduction to Political Science (Also counts toward the core)

**American Politics (6 hours)**
- POLS 3300 American Political Parties
- POLS 3303 American State and Local Government
- POLS 3305 Elections and Public Opinion
- POLS 3320 The American Presidency
- POLS 3325 Legislative Processes and Behavior
- POLS 3350 Arkansas Government and Politics
- POLS 4350 Constitutional Law: Governmental Powers
- POLS 4351 Constitutional Law: Civil Liberties

**International Politics (6 hours)**
- POLS 3360 Comparative Governments: Western
- POLS 3365 European Union
- POLS 3370 Comparative Politics: Developing Areas
- POLS 4320 American Foreign Policy
- POLS 4331 International Organizations
- POLS 4340 International Relations

**Normative and Empirical Analysis (3 hours)**
- POLS 3302 Methods of Political Inquiry
- POLS 3304 Qualitative Methods in Political Science
- POLS 3390 American Political Thought
- POLS 4380 Classical Political Theory
- POLS 4390 Modern Political Theory
- POLS 4395 Research-Intensive Seminar

**Field Experience**
Students must complete one of the following. Coursework taken to satisfy this requirement may also be used to satisfy a subfield or elective requirement for the major.
- POLS 3338 Cooperative Education in Political Science I
- POLS 3339 Cooperative Education in Political Science II
- POLS 3348 Internship I
- POLS 4348 Internship II
- Any POLS course with a service learning component
- Any travel course or study abroad program

A paid or volunteer position of at least 15 weeks with a government agency, elected official, campaign, interest group, or other politically-oriented organization. (Students taking this option will not receive course credit, but will have the requirement waived.) In order to use this option to satisfy the requirement, students must provide evidence of the position and submit a paper describing the work that they did to the internship coordinator for approval.

**Electives (12 hours)**
Four upper-level political science courses.

**Minor (12-29 hours—typical minor requires 18)**

**Unrestricted General Electives**
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

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Bachelor of Arts in Political Science with Secondary Education Licensure

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (x hours)**
See page 25 for requirement details.

**Second Language Proficiency (0-x hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (33 hours)**

**Political Science Foundation Courses (6 hours)**
- POLS 1310 American National Government (Also counts toward the core)
- POLS 2301 Introduction to Political Science (Also counts toward the core)

**American Politics (6 hours)**
- POLS 3300 American Political Parties
- POLS 3303 American State and Local Government
- POLS 3305 Elections and Public Opinion
- POLS 3320 The American Presidency
- POLS 3325 Legislative Processes and Behavior
- POLS 3350 Arkansas Government and Politics
- POLS 4350 Constitutional Law: Governmental Powers
- POLS 4351 Constitutional Law: Civil Liberties

**International Politics (6 hours)**
- POLS 3360 Comparative Governments: Western
- POLS 3365 European Union
- POLS 3370 Comparative Politics: Developing Areas
- POLS 4320 American Foreign Policy
- POLS 4331 International Organizations
- POLS 4340 International Relations

**Normative and Empirical Analysis (3 hours)**
- POLS 3302 Methods of Political Inquiry
- POLS 3304 Qualitative Methods in Political Science
- POLS 3390 American Political Thought
- POLS 4380 Classical Political Theory
- POLS 4390 Modern Political Theory
- POLS 4395 Research-Intensive Seminar

**Field Experience**
Students must complete one of the following. Coursework taken to satisfy this requirement may also be used to satisfy a subfield or elective requirement for the major.
- POLS 3338 Cooperative Education in Political Science I
- POLS 3339 Cooperative Education in Political Science II
- POLS 3348 Internship I
- POLS 4348 Internship II
- Any POLS course with a service learning component
- Any travel course or study abroad program

A paid or volunteer position of at least 15 weeks with a government agency, elected official, campaign, interest group, or other politically-oriented organization. (Students taking this option will not receive course credit, but will have the requirement waived.) In order to use this option to satisfy the requirement, students must provide evidence of the position and submit a paper describing the work that they did to the internship coordinator for approval.

**Electives (12 hours)**
Four upper-level political science courses.
Normative and Empirical Analysis (3 hours)
POLS 3302 Methods of Political Inquiry
POLS 3304 Qualitative Methods in Political Science
POLS 3390 American Political Thought
POLS 4380 Classical Political Theory
POLS 4390 Modern Political Theory
POLS 4395 Research-Intensive Seminar

Field Experience
Students must complete one of the following. Coursework taken to satisfy this requirement may also be used to satisfy a subfield or elective requirement for the major.
POLS 3338 Cooperative Education in Political Science I
POLS 3339 Cooperative Education in Political Science II
POLS 3348 Internship I
POLS 4348 Internship II
Any POLS course with a service learning component
Any travel course or study abroad program
A paid or volunteer position of at least 15 weeks with a government agency, elected official, campaign, interest group, or other politically-oriented organization. (Students taking this option will not receive course credit, but will have the requirement waived.) In order to use this option to satisfy the requirement, students must provide evidence of the position and submit a paper describing the work that they did to the internship coordinator for approval.

Electives (12 hours)
Four upper-level political science courses.

Minor (12-29 hours—typical minor requires 18)
Students who want to complete the Political Science major with secondary teacher licensure must complete both the Secondary Education and Social Studies minors. (See page 50 for details.)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

International Studies
Stabler Hall 603, (501) 683-7029, ualr.edu/ba/ints/

The international studies program embraces an interdisciplinary curriculum which emphasizes global awareness in preparation for careers in international service. It enhances the development of advanced foreign language and communication skills and offers crucial insights into the scope of international and global problems.

The international studies curriculum is designed for students interested in seeking employment with a U.S. agency or company involved in international affairs, or attracted to work experience overseas. Military and diplomatic service, commercial enterprises, educational agencies, and development and human rights organizations offer opportunities for persons well-versed in global concerns. In addition, the international studies major provides a solid foundation for potential graduate study in the social sciences, the humanities, journalism, and international business and law.

Because of the rigorous nature and the complexity of this curriculum, students are encouraged to contact the international studies coordinator during their freshman year to become familiar with the program and to discuss a feasible course of study.

Admission Requirements
Prerequisites for formal admission to the international studies program include having a cumulative grade point average of 2.50 and completion of the following courses:
RHET 1311 Composition I
RHET 1312 Composition II
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
GEOG 2310 World Regions
or GEOG 2312 Cultural Geography
FREN, GERM, or SPAN 1311, 1312 (or equivalent)
ECON 2301 Survey of Economics

Additional prerequisites for students seeking an international studies degree with a business emphasis include:
MKTG 2380 Legal Environment of Business

Major in International Studies
The international studies program comprises a major/minor consisting of 45-48 hours. The curriculum is divided into a set of International Studies foundation courses and an area of concentration.

Area of Concentration
In addition to the International Studies foundation courses the student will select an area of concentration. Options include Latin America, Europe, a private track emphasis, or an area designed by the student with the advisor’s approval. Possible choices include, but are not limited to; East Asian Studies, International Women’s Issues, Middle Eastern studies, or a diplomatic, environmental, or developing nations emphasis. The area concentration consists of 18 hours of thematically clustered courses from various academic disciplines, an advanced foreign language course in culture or literature, an internship or cooperative education work experience, and a senior paper connected with the student’s specialization.

Minor in International Studies
The minor in international studies is designed for students who have an interest in foreign cultures and global affairs and would like to complement their major or career related field with foreign language and international skills.

The international studies minor consists of 21 hours. Students must complete an intermediate foreign language course (2311 or above), INTS 2301 and 2302, and 4 hours of related upper-level courses chosen in consultation with the international studies coordinator.
Bachelor of Arts in International Studies
Private Sector

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (54 hours)
Program Prerequisites (9 hours)
ECON 2310 Survey of Economics (Also counts towards core)
MKTG 2380 Legal Environment of Business

3 hours from Geography Courses:
GEOG 2312 Cultural Geography (Also counts towards core)
GEOG 2310 World Regions

International Studies Foundation Courses (21 hours)
INTS 2301 World Cultures
INTS 2302 Global Issues
INTS 4101 Senior Research Project: Proposal
INTS 4102 Senior Research Project: Paper
INTS 4103 Senior Research Project: Presentation
INTS 4350 Internship
MKTG 3350 Principals of Marketing
RHET 3300 Introduction to Research Methods
SPCH 4312 Intercultural Communication

Second Language (6 hours)
Two upper level courses in a foreign language (3000-4000 level)

Statistics (3 hours)
STAT 2350 Introduction to Statistics
ECON 2310 Business Statistics

Electives (15 hours)
Three courses (9 hours) upper level international business courses chosen in consultation with the International Studies adviser
Two courses (6 hours) upper level cultural/political courses chosen in consultation with the International Studies adviser

Minor (None required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in International Studies
Public Sector

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (x hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (54 hours)
Program Prerequisites (6 hours)
ECON 2310 Survey of Economics (Also counts towards core)

3 hours from Geography Courses:
GEOG 2312 Cultural Geography (Also counts towards core)
GEOG 2310 World Regions

International Studies Foundation Courses (21 hours)
INTS 2301 World Cultures
INTS 2302 Global Issues
INTS 3321 Topics in Modern International Cultures
INTS 4101 Senior Research Project: Proposal
INTS 4102 Senior Research Project: Paper
INTS 4103 Senior Research Project: Presentation
INTS 4350 Internship
RHET 3300 Introduction to Research Methods
SPCH 4312 Intercultural Communication

Second Language (6 hours)
Two upper-level courses (3000-4000 level) in a foreign language

Electives (21 hours)
One course (3 hours) upper-level Political Science course (3000-4000 level) in comparative or international politics
Four courses (12 hours) of upper-level clustered courses chosen in consultation with the International Studies adviser
Two courses (6 hours) of upper-level designated courses chosen in consultation with the International Studies adviser

Minor (None required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Minor in Presidential Studies
Joseph Giammo, Coordinator

The Presidential Studies minor enables students to gain a greater understanding of the presidency as an institution and as an actor within several arenas: government and politics, the economy, media and communications, and culture and society. As an interdisciplinary minor, Presidential Studies allows students to study multiple approaches for understanding the presidency and different aspects of presidential behavior, the executive branch, and public policy. Course work in the program is designed to enhance students’ understanding of how the presidency and executive branch operate and the institution’s impact on society at home and abroad. The minor is well suited to combine with a major in Political Science, History, Mass Communications, Rhetoric and Writing, Speech Communication, and Professional and Technical Writing. This minor may be chosen as one of the concentrations in the Bachelor of Arts in Interdisciplinary Studies curriculum. The minor requires 21 hours. Students who declare the minor must be advised by the coordinator. Students’ individual needs and interests are important considerations in the course selection and advising process. During registration, students should confirm with the coordinator that the courses they plan to take meet the requirements for the minor. Students who plan to take online courses or courses at other campuses must first seek written approval from the coordinator and apply for concurrent enrollment.

Minor in Presidential Studies

Required Courses (6 hours)
- POLS 3320 The American Presidency
- POLS 4360 Selected Topics in Political Science: Presidential Studies

History Requirements (6 hours)
- HIST 3352 American Revolution, 1763-1787
- HIST 3353 The New Republic: The US, 1787-1848
- HIST 3355 American Civil War and Reconstruction, 1848-1876
- HIST 3356 The Gilded Age: The US, 1876-1900
- HIST 3357 The Age of Reform: The US, 1900-1939
- HIST 3358 Recent America: The US, 1939-present
- HIST 4385 U.S. Diplomatic History
- HIST 4387 Great Decisions in American Foreign Policy (if not taken below as POLS 4387)

Political Science Requirements (6 hours)
- POLS 3301 Seminar in Political Science
- POLS 3331 Public Administration (if not taken below as PADM 3331)
- POLS 4345 The Clinton Presidency
- POLS 4350 Constitutional Law: Governmental Powers
- POLS 4387 Great Decisions in American Foreign Policy (if not taken above as HIST 4387)

One course from the following (3 hours)
- RHET 4306 Writing for Business and Government
- PADM 3331 Public Administration (if not taken above as POLS 3331)
- HIST 4391 Seminar in United States History
- HIST 4395 History Internship
- POLS 3348 Internship I
- POLS 4348 Internship II
- PSYC 4290, 4390 Senior Seminar
- SPCH 4313 Seminar: Topics in Communication
- MCOM 4384 Topics in Journalism
- MCOM 4370 Special Topics: RTVF
- RHET 4347 Topics in Nonfiction Writing

Middle Eastern Studies

Clea Bunch, Chair (Responsible for public programs)
Faculty: Clea Bunch, History Department
Krista Lewis, Department of Sociology and Anthropology

The Middle Eastern Studies minor is an interdisciplinary program that gives student the opportunity to study the Middle East in-depth by combining existing course offerings from a number of disciplines. The minor is available to students from a wide variety of majors, and is particularly valuable option for students majoring in International Studies, Political Science, Anthropology, or History. The minor consists of 18 credit hours, including three required upper-division courses in politics, cultures and history of the Middle East, and three elective courses with a focus on the Middle East. The list of available elective courses is expanding.

The minor is a part of a broader Middle Eastern Studies Program, funded by the King Fahd endowment. The program offers, on competitive basis, grants for Middle Eastern Studies students studying at UALR and for UALR faculty with interest in the Middle East. The program also supports a series of monthly lectures and events on the Middle East. For further information, please contact the program coordinator.

Minor description:

The minor requires 18 upper level hours to include:
- POLS 4375/5375 Politics of the Middle East
- ANTH 3319 Cultures of the Middle East
- HIST 3336 Islam and the Modern Middle East
- or HIST 4390 Islamic Civilization 600-1900

and 9 hours of elective credit selected from courses with a Middle Eastern focus including the following courses:
- POLS 3301 Global Terrorism
- RELS 3370 Judaism
- RELS 3336 Islam
- ANTH 4325 Egyptology
- GEOG 4300 Geography of the Middle East
- POLS 3101 Model Arab League

Students can transfer their credits for other minor-related coursework, including study of Middle Eastern Languages. Other elective courses may be substituted with prior consent of the program coordinator.

Courses in International Studies (INTS)

INTS 2301 World Cultures
A study of traditional culture of major world areas emphasizing values and systems that lead to cultural unity and cultural diversity, followed by a study of the modernization of each culture and the extent to which the cultures have interacted and changed as a result of intercultural contact during the 19th and 20th centuries. Three credit hours.

INTS 2302 Global Issues
A study of issues of concern throughout the modern world, the reaction of cultural entities to those issues, global dynamics, and the ways in which international assessments are made. Three credit hours.

INTS 3321 Topics in Modern International Cultures
Modern institutions and lifestyles in cultures selected from the major regions of Europe, Asia, Africa, and Latin America. The course emphasizes different patterns of behavior found in cultural areas outside the U.S. The specific focus of the course will vary from time to time. It may be repeated for credit if the content is different. Three credit hours.
INTS 3350, 3351 Cooperative Education Work Experience I and II
Prerequisites: major in international studies, INTS 2301, 2302, ECON 2321, FREN, GERM, or SPAN 2312, at least six upper-level required international studies hours, basic computer literacy, and consent of the international studies coordinator. Designed to complement and extend the classroom learning experience through application of theoretical concepts in a professional work environment with an international dimension. The exact number of work hours, activities, and responsibilities is dependent on the nature of the work experience and must be specified in a written agreement between employer and student in coordination with the Office of Cooperative Education. Three credit hours.

INTS 4101 Senior Research Project
Proposal. Required for international studies majors. An independent research project that is completed over two semesters under the guidance of a faculty supervisor whose field is related to the proposed area of investigation. The project has three components, consisting of a proposal (4101), a formal paper (4102), and an oral presentation (4103), each providing one hour of academic credit. A student may enroll in INTS 4102, 4103 only after completing an acceptable proposal (INTS 4101) in the previous semester. One credit hour.

INTS 4102 Senior Research Project
Formal Paper. Required for international studies majors. An independent research project that is completed over two semesters under the guidance of a faculty supervisor whose field is related to the proposed area of investigation. The project has three components, consisting of a proposal (4101), a formal paper (4102), and an oral presentation (4103), each providing one hour of academic credit. A student may enroll in INTS 4102, 4103 only after completing an acceptable proposal (INTS 4101) in the previous semester. Three credit hours.

INTS 4103 Senior Research Project
Oral Presentation. Required for international studies majors. An independent research project that is completed over two semesters under the guidance of a faculty supervisor whose field is related to the proposed area of investigation. The project has three components, consisting of a proposal (4101), a formal paper (4102), and an oral presentation (4103), each providing one hour of academic credit. A student may enroll in INTS 4102, 4103 only after completing an acceptable proposal (INTS 4101) in the previous semester. Three credit hours.

INTS 4300 Seminar
For international studies majors. An integrative, in-depth study of a specified regional problem or global issue, related to the area of concentration, requiring analysis of traditional values and current issues and problems. Three credit hours.

INTS 4350 Internship
For international studies majors or minors. Field experience with businesses, industries, and agencies involved in the international arena. Supervised by the company or agency and a faculty member. Students are expected to apply theoretical concepts to active world situations and develop appropriate working skills and experience. Credit, no credit grading available on request. Three credit hours.

Courses in Political Science (POLS)

POLS 1310 American National Government
An introduction to the political institutions, processes, and patterns of the national government of the United States, focusing on the Congress, presidency, and courts, and on their interrelationships. Attention is given to suffrage and elections, political parties, interest groups, and public opinion. Significant issues and problems of national policy such as civil rights and civil liberties are considered. Three credit hours. (ACTS Course Number PLSC 2003)

POLS 2301 Introduction to Political Science
Introduction to social science concepts as applied to political analysis. Analysis of individuals, groups, and society, particularly the study of social, economic, and political structures and behavior. Introduction to the discipline of political science as a social science, including enduring questions about politics, nature of political analysis, major theoretical and empirical approaches, and critiques of the discipline. Three credit hours.

POLS 3101 Seminar in Political Science
[See course description for]

POLS 3201 Seminar in Political Science
[See course description for]

POLS 3300 American Political Parties
Prerequisite: POLS 1310 or junior standing. The nature, function, and history of political parties in the United States and the process by which the will of the electorate is applied to public problems through suffrage, nominations, campaigns, and elections. Three credit hours.

POLS 3301 Seminar in Political Science
Prerequisite: POLS 1310 or junior standing. Special problems, issues, or trends in the theory and practice of politics and government. May be repeated with a change of subject and permission of department chairperson. One, two, or three credit hours.

POLS 3302 Methods of Political Inquiry
Introduction to basic research methods in empirical political analysis. Research design in political science; data collection techniques; data analysis and hypothesis testing; statistics and computer use for political science. Three credit hours.

POLS 3303 American State and Local Government
Problems of state and local government; the party system in the state; organization, functions, and powers of the legislative, executive, and judicial branches of the state government; organization and operation of county, city, village, and township government in the United States; emphasizes the effect of federalism on American state and local governments. Three credit hours.

POLS 3304 Qualitative Methods in Political Science
An introduction to qualitative research in political science, including examination of research design, question selection, literature reviews, and methods of gathering, coding, and analyzing information. Three credit hours.

POLS 3305 Elections and Public Opinion
Prerequisite: POLS 1310 or junior standing. The roles of elections and public opinion within the democratic system are thoroughly analyzed, with emphasis on factors leading to different electoral behavior and opinions within the public. Three credit hours.

POLS 3310 Policy Process
Prerequisite: POLS 1310 or junior standing. Surveys alternative approaches for analyzing policy making, the political and institutional context affecting the policy process, and selected public policies and decisions. Three credit hours.
POL 3320 The American Presidency
Prerequisite: POLS 1310 or junior standing. Powers, duties, and responsibilities of our greatest executive officer, centering on historic and contemporary conceptions of the office; the presidency as an administrative institution. Three credit hours.

POL 3325 Legislative Politics/Behavior
Prerequisite: POLS 1310 or junior standing. Legislative politics in the United States Congress: socialization, role of party, constituency, and legislative institutions as they affect legislative behavior and public policy. Three credit hours.

POL 3331 Public Administration
Prerequisites: POLS 1310 or junior standing. Trends and organization of public administration, fiscal and personnel management, administrative powers, and responsibility. Cross-listed with PADM 3331. Three credit hours.

POL 3338, 3339 Cooperative Education in Political Science I & II
Prerequisites: declared major in political science; POLS 1310; and at least one upper-level course in political science, basic computer literacy, and consent of the department’s cooperative education coordinator. POLS 3303 is strongly recommended but not required. Cooperative Education in Political Science is designed to give a student majoring in the discipline an educationally applied field work learning experience. A maximum of six hours of Cooperative Education may be taken in the major. Three credit hours.

POL 3348 Internship I
Prerequisites: at least 45 hours of completed work and permission of the instructor. Public service learning in an applied setting. Provides undergraduate students interested in politics and government with practical governmental experience. Students, through the writing of a primary internship paper and the attendance at periodic intern seminars, synthesize practical and theoretical learning in government, politics, and law. Three credit hours.

POL 3350 Arkansas Government and Politics
Prerequisite: POLS 1310 or junior standing. A study of contemporary politics and government of Arkansas with a brief introduction to the state’s political history and a concentration on the twentieth-century experience. Topics include elections, the constitution, organization of Arkansas state and local government, and the operation of the executive, legislative, and judicial branches. Three credit hours.

POL 3360 Comparative Government: Western
Prerequisite: POLS 1310 or junior standing. The structure, powers, and principles of the national governments of the leading European nations, including the former Soviet republics, in contrast with one another and the United States. The course also includes Canada. Three credit hours.

POL 3365 The European Union
This course examines the structures and functions of European governance, both at the nation-state and at the EU level, and tackles some of the concepts behind, impediments to, and consequences of, European integration in both theory and form. Students will become familiar with the politics of both large and small member states and how these politics are reflected in governance at the EU level. Three credit hours.

POL 3370 Comparative Politics: Developing Areas
Prerequisite: POLS 1310 or junior standing. An examination of the major themes and practical problems central to third world politics as development, state-society relations and change. A general focus on cases from Africa, Asia and Latin America will help ground thematic discussions. POLS 3360 is recommended as background. Three credit hours.

POL 3380 Seminar in Comparative Politics
Prerequisite: POLS 1310 or junior standing. Special problems, issues, or trends in the study of comparative politics. May be repeated with a change of subject and permission of the department chairperson. Three credit hours.

POL 3390 American Political Thought
Prerequisite: POLS 1310 or junior standing. The lives and ideas of leading political thinkers of the United States from the colonial period to the present. Three credit hours.

POL 4100, 4200, 4300 Independent Study
Prerequisites: senior standing. 15 credit hours of political science, consent of instructor. Advanced study and research. The student should prepare a prospectus before applying for independent study. One, two, or three credit hours.

POL 4301 Judicial System and Process
A survey of state, local, and federal judicial systems and their interrelationships. Examines judicial structure, functions, and decision-making procedures. Three credit hours.

POL 4302 Law and Society
An examination of the origins and history of law in society, including the evolving roles of judges, juries, defense attorneys, and prosecutors. Examines the evolution of civil and criminal law, the adversary system, and the concept of justice. Three credit hours.

POL 4308 Topics in Urban Studies
In-depth analysis of selected urban topics and themes. Course emphasizes multidisciplinary nature of urban issues and various approaches used to characterize, investigate and understand urban phenomena. May be repeated for credit with a change of subject and permission of the department chairperson. Cross-listed as URST 4308. Dual-listed in the UALR Graduate Catalog as POLS 5308. Three credit hours.

POL 4310 Seminar in American National Government
Prerequisite: senior standing. Research seminar dealing with selected phases of politics and government in the United States. It gives students the opportunity to bring analytical skills and substantive knowledge gained in prior courses to bear on a selected topic of importance, and will involve a substantial writing project. Dual-listed in the UALR Graduate Catalog as POLS 5310. Three credit hours.

POL 4315 Capitol Hill Seminar
An introduction to politics and government in Washington, DC politics. Through meetings with Washington decision-makers from the three branches of government, the major governmental linkage institutions and lobbyists, congressional staffers, members of the media, think tanks, and political analysts, the course facilitates understanding of the theoretical and practical worlds of American politics from an insider, Capitol Hill, perspective. Three credit hours.

POL 4320 American Foreign Policy
Prerequisite: POLS 1310 or junior standing. Examines the goals and motivation of American foreign policy and relations, the actors and processes that shape policies and decisions, and selected foreign policy problems and issues. Dual-listed in the UALR Graduate Catalog as POLS 5320. Three credit hours.

POL 4331 International Organizations (IOs)
This course will explore the conception and modern functions of many International Organizations, and the international and domestic political forces that impact their effectiveness. We will study major governmental IOs, including the IMF, NATO, the UN, and the League of Arab States, as well as non-governmental IOs like Doctors without Borders and Amnesty International. In particular, the course will focus on the role of IOs in issues of war and peace, human rights, and development. Students will conduct research on and participate in International Organization “models” and will gain knowledge about the internal and procedural workings of IOs and the major issues the address. Three credit hours.

POL 4333 Seminar in State Politics
Research seminar dealing with selected aspects of state politics such as comparative policy making, political culture variations, and problem solving. Dual-listed in the UALR Graduate Catalog as POLS 5333. Three credit hours.
POLS 4340 International Relations
Prerequisite: POLS 1310 or junior standing. Provides a conceptual foundation for understanding and analyzing the international system, states, and actors. Examines economic, political, and military aspects of national security, power, and national interest, and patterns of national decision making. Three credit hours.

POLS 4341 Seminar in International Relations
Special problems, issues, or trends in the study of international relations. May be repeated with a change of subject and permission of the department chairperson. Three credit hours.

POLS 4343 Seminar in Local Politics
Research seminar dealing with selected aspects of local politics such as community power structure, local autonomy, and comparative administration. Dual-listed in the UALR Graduate Catalog as POLS 5343. Three credit hours.

POLS 4345 The Clinton Presidency
Prerequisite: consent of the instructor. The presidency of Bill Clinton from several perspectives, all grounded in the discipline of political science: the administration’s policy making; presidential power and leadership; crises and turning points in the Clinton administration; campaigning and communications skill of the president; relations with the press, political parties and groups; and the legacy of the Clinton presidency. Dual-listed in the UALR Graduate Catalog as POLS 5345. Three credit hours.

POLS 4348 Internship II
Prerequisite: Senior standing and permission of the instructor. A public service learning experience which gives students the opportunity to blend practical concepts learned on the job with their academic course work in political science. Students attend periodic seminars and participate in a substantial writing assignment aimed at fully integrating and synthesizing their public service experience. Dual-listed in the UALR Graduate Catalog as POLS 5348. Three credit hours.

POLS 4350 Constitutional Law: Governmental Powers
Prerequisite: POLS 1310 or junior standing. The Supreme Court as a political institution in American democracy. Analysis of leading constitutional decisions exploring judicial review, federalism, separation of powers, regulation of commerce, due process, and equal protection. The dynamics of Supreme Court decision-making. Three credit hours.

POLS 4351 Constitutional Law: Civil Liberties
Prerequisite: POLS 1310 or junior standing. Civil liberties; analysis of leading constitutional decisions focusing on human freedom and fundamental rights. Emphasis on religious liberty, freedom of expression, racial equality, privacy, criminal procedures, and the dynamics of Supreme Court decision making. Three credit hours.

POLS 4355 Urban Planning and Land Use
A view of urban planning and land use from critical, analytical urban studies perspective. The course inquires into the meaning of planning for communities and cities. Course uses case studies to explore positive and negative impacts of planning technique and professionalism. Considers historical and modern alternatives to planning and subsequent land use and how urban planning and land use relate to quality of urban life. Dual-listed in the UALR Graduate Catalog as POLS 5355. Three credit hours.

POLS 4356 Urban Policy and Government
Course explores urban policy-making and urban government from a critical, analytical urban studies perspective. Considers historical and modern variations of urban government and intergovernmental relations and how this relates to urban policy making, political will and quality of urban life issues. Dual-listed in the UALR Graduate Catalog as POLS 5356. Three credit hours.

POLS 4360 Selected Topics in Political Science
Prerequisite: senior standing. The seminar provides students the opportunity to bring analytical skills and substantive knowledge gained in prior courses to bear on a selected topic of special importance, and will involve a substantial writing project. Students should inquire at the department for the topic that will be addressed in a given semester. Three credit hours.

POLS 4370 Readings in Political Science
Prerequisite: senior standing. In this readings seminar several outstanding books, including classics and notable current works, are assigned for analysis and discussion. The course is designed to give students an opportunity to consider fundamental themes that perennially concern the discipline: the nature of power, politics, and governance. Three credit hours.

POLS 4375 Politics of the Middle East
The course covers the politics and political dynamics of the Middle East, introducing the student to the main issues and actors (state and non-state) of the contemporary Middle East. The course explores the nature of contemporary politics in the region including the impact of the complex relationships among great power intervention, economics, ethnicity, nationalism, and religion. Three credit hours.

POLS 4376 Global Terrorism
The course will cover history, contemporary nature and defense against terrorism, with a particular emphasis on post 9/11 “war on terror.” Three credit hours.

POLS 4380 Classical Political Theory
Prerequisite: POLS 1310 or junior standing. Major political ideas and doctrines of political thinkers from Plato to Montesquieu, with emphasis on the contributions of each to the theory and practice of government. Dual-listed in the UALR Graduate Catalog as POLS 5380. Three credit hours.

POLS 4387 Great Decisions in American Foreign Policy
Prerequisites: POLS 1310, HIST 2311, or junior standing. Examines eight current foreign policy issues. Explores the origins of each issue, alternative proposals and strategies for American foreign policy, other nations’ proposals and strategies, and the consequences of past and current international problems for the United States and the world community. Dual-listed in the UALR Graduate Catalog as POLS 5387. Three credit hours.

POLS 4390 Modern Political Theory
Prerequisite: POLS 1310 or junior standing. A continuation of POLS 4380; from Edmund Burke to the present, with emphasis on the more recent political theories and systems of democracy, communism, and socialism. Dual-listed in the UALR Graduate Catalog as POLS 5390. Three credit hours.

POLS 4395 Seminar in Political Science Research
Special problems, issue, or trends in the study of politics. The course will involve student participation in conducting political science research. May be repeated with a change of subject and permission of department chairperson. Three credit hours.

POLS 4397 Social Studies Teaching Applications
A link between social studies content with practical applications for classroom instruction. Content information comes from history, geography, political science, sociology/anthropology, and psychology. Modeled for prospective secondary education teachers to illustrate how content can be applied in the classroom. Content information comes from outstanding books, including classics and notable current works, are assigned for analysis and discussion. The course is designed to give students an opportunity to consider fundamental themes that perennially concern the discipline: the nature of power, politics, and governance. Three credit hours.

POLS 4399 Undergraduate Research Project
Prerequisite: Junior or senior standing, POLS 3302, 15 credit hours of political science, and consent of the instructor. Completion of a major research project in political science. The student should complete a research proposal before applying. Three credit hours.
The mission of the department is to be excellent in teaching, scholarship, and service. The department applies psychological knowledge, skills, and tools to further human welfare and to produce well-trained students. The Psychology Department continuously assesses the quality of its efforts and uses the data to make improvements in the program.

The department offers courses that serve three principal purposes: to help students understand themselves and others by studying factors influencing human behavior, to introduce students to the essentials of the scientific method as applied to behavioral research, and to provide a background for students intending to do graduate study in psychology or an allied field.

**General Information**

### Major in Psychology

Minimum requirements for a psychology major are 34 hours of psychology (16 hours must be in residence) as specified below with a grade of C or greater in all psychology courses counted toward the major. Students pursuing a professional career in psychology are advised that the master’s degree is the minimum training necessary. Prospective psychology majors, regardless of whether they plan to go to graduate school, should select courses with early and continuing advice from the department faculty. It is important that students plan their program of courses carefully. A wide range of courses is recommended as preparation for the requirements of different schools.

PSYC 3369, 3469, 4221, 4321, and 4495 are suggested to upper-level pre-professional majors. They provide experience in the actual work done by professional psychologists in ways not possible in lecture courses and are valuable credentials in application to graduate school. A maximum of six hours of these courses can be applied toward the major.

### Psi Chi Chapter

Membership in the UALR Chapter of Psi Chi, the International Honor Society in Psychology, is available to students interested in psychology as a topic or as a profession, and who meet the membership requirements. Requirements are:

- Declaring a major or minor in psychology, or completing three semesters of college courses and nine semester hours of psychology courses.
- Having an overall cumulative GPA of 3.00, a minimum GPA of 3.00 in psychology courses, and a rank in the upper 35 percent of the class (undergraduates).

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### Bachelor of Arts in Psychology

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**

See page 25 for requirement details.

**Second Language Proficiency (0-9 hours)**

Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (34 hours)**

**Required Courses (16 hours)**

- PSYC 2300 Psychology and the Human Experience
- PSYC 2340 Statistics and Methods I
- PSYC 3342 Statistics and Methods II
- PSYC 3341 Research Methods I
- PSYC 3320 Introduction to Applied Psychology
- PSYC 4100 Senior Synthesis

**Focus Areas (9 hours)**

Students are required to take at least one upper-level course in each of the following three focus areas:

**Focus Area A (3 hours)**

- PSYC 3330 Health Psychology
- PSYC 3350 Social Psychology
- PSYC 3356 Developmental Psychology
- PSYC 3360 Abnormal Psychology
- PSYC 4337 Adult Psychology and Aging

**Focus Area B (3 hours)**

- PSYC 3305 Sensation and Perception
- PSYC 3380 Cognitive Psychology
- PSYC 4320 Physiological Psychology
- PSYC 4330 Learning and Memory

**Focus Area C (3 hours)**

- PSYC 3370 Industrial Psychology
- PSYC 3375 Consumer Psychology
- PSYC 4325 Personnel Psychology
- PSYC 4363 Organizational Psychology
- PSYC 4380 Human Factors Psychology

**Psychology Electives (9 upper-level hours in PSYC)**

**Minor (12-29 hours—typical minor requires 18)**

**Unrestricted General Electives**

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Minors in Psychology

The department offers three minors serving different objectives.

1. Industrial Psychology
2. Developmental Psychology
3. General Psychology

Students may not major and minor in psychology. All three minors require 18 hours, including PSYC 2300. For all minors, a maximum of three hours of independent study, internship, or practicum may be applied to the required hours. Students should be advised that it may take two years to complete a minor since some courses may be offered only every other year.

Industrial Psychology

The remaining 15 hours would be chosen from the following seven courses: applied psychology, personnel psychology, industrial psychology, organizational psychology, human factors psychology, psychology of consumer behavior, psychological tests, and the statistics course (PSYC 2340). A student may substitute a business or mathematics statistics course for psychological statistics. The minor in industrial psychology is designed to complement a variety of majors, including management, marketing, advertising/public relations, communication, education, sociology, and political science.

Developmental Psychology

The remaining 15 hours would consist of the following courses: development, social and personality development, infancy, psychological disorders of childhood, and adolescence.

General Psychology

An additional 15 hours selected from any upper-level courses. It is flexible enough to permit the student to structure a program to meet personal needs and wishes.

Courses in Psychology (PSYC)

PSYC 2300 Psychology and the Human Experience

Focuses on development of the individual in the context of physical and social environments. Topics include the scientific method and its application to the study of the individual, the relationship between brain and behavior, social and personality development, theories of motivation, maladaptive behavior, social cognition and interaction, and the effects of membership in different groups. Students learn through writing, reading, discussing, listening, and participating in critical thinking and problem-solving activities. Three credit hours. (ACTS Course Number PSYC 1103)

PSYC 2310 General Psychological Statistics

Prerequisite: MATH 1302 or 1315 or equivalent. A general survey of statistical methods in psychology, including descriptive and inferential techniques. Emphasis on application and interpretation of the statistical procedures. Course does not fulfill requirement for psychology majors, or count toward the minimum of 31 hours of psychology courses for majors. May be useful in preparation for required statistics courses. Accepted by some majors. See program advisor for information. Three credit hours.

PSYC 2340 Statistics and Methods I

Prerequisite: MATH 1302 or 1315 or equivalent. A study of descriptive research techniques. Emphasis on design and statistical analysis of descriptive experimentation. Topics include central tendency and dispersion, probability theory, frequency distributions, percentiles, correlation and regression. Three credit hours.

PSYC 3305 Sensation-Perception

Prerequisite: PSYC 2300. Study of the perception external events and sensory processes underlying that perception. Three credit hours.

PSYC 3308 Urban Environmental Psychology

Prerequisite: PSYC 2300. Study of the effects of physical environments on individuals. Topics include individual perceptions of local environments, pollution, and energy costs; individual privacy needs versus crowding; unique environments, such as wilderness, museums, and zoos; and the design of more livable homes. Three credit hours.

PSYC 3310 Motivation and Emotion

Prerequisite: PSYC 2300. Detailed coverage of important forms of human motivation and cursory treatment of emotions. Three credit hours.

PSYC 3320 Introduction to Applied Psychology

Prerequisite: PSYC 2300. An introduction to the application of psychology to a variety of problems concerning mental and physical health, communication, motivation, the use of tests and other psychological techniques in industry and government, social engineering, environmental issues, and the legal system. Also covers careers in psychology, their educational requirements, and career planning. Three credit hours.

PSYC 3330 Health Psychology

Prerequisite: PSYC 2300. A study of the inter-relationship between psychology and health. Topics include research regarding the mind-body connection, the causes of stress and how stress impacts health, behavioral contributions to an individual’s or community’s health status, and the ways in which health is being re-conceptualized. Three credit hours.

PSYC 3340 Meditation Techniques

Theoretical framework for understanding the meditation experience, namely, Jung’s depth psychology, yoga psychology, and Buddhist psychology; training in specific meditation techniques of various religious traditions, including Hatha Yoga, Zen, and the Silence, as well as the self-analysis of dreams. Cross-listed as RELS 3340. Three credit hours.

PSYC 3341 Research Methods I

Prerequisite: PSYC 2340 with grade of “C” or greater. This course is designed as a survey of methods used in psychological research with equal treatment given to quasi experimental and experimental designs. Topics will include experiments, survey research, qualitative field research and unobtrusive research with an emphasis on the purposes, strengths and weaknesses of each. This course is required for psychology majors entering Fall 2010. Three credit hours.

PSYC 3342 Statistics and Methods II

Prerequisite: PSYC 2340 with a “C” or greater. A study of inferential research techniques, with an emphasis on the design and statistical analysis of controlled experimental procedures. Topics include sampling procedures and distributions, hypothesis testing, within and between subjects designs, tests of the difference between two means, and one-way and factorial analyses of variance. Three credit hours.

PSYC 3350 Social Psychology

Prerequisite: PSYC 2300. An introduction of theories, research, and problems regarding interrelationships of social structure, interpersonal interaction, and behavior of individuals. Topics include human aggression, prejudice, attraction, persuasion, self-perception, and conformity. Three credit hours.

PSYC 3356 Developmental Psychology

Prerequisite: PSYC 2300. Development of the individual from conception through adolescence. Topics include prenatal, intellectual, emotional, social, and personality development. Three credit hours.

PSYC 3357 Infancy

Prerequisite: PSYC 2300, 3356, or consent of the instructor. Theory and research on the psychological development of infants. Topics include sensory and perceptual development, intellectual development, social and emotional development, and physical development during the first two years of life. Three credit hours.
PSYC 3358 Adolescent Psychology
Prerequisite: PSYC 2300, 3356, or consent of instructor. Theory and research on the psychological development of adolescents; physical, social, personality, and intellectual development during adolescence; major theories concerning adolescence. Three credit hours.

PSYC 3360 Abnormal Psychology
Prerequisite: PSYC 2300. The causes, symptoms, and treatment of abnormalities in human behavior. Three credit hours.

PSYC 3363 Psychology of Religion
Prerequisite: PSYC 2300 or consent of instructor. Various interpretations of religious experience in terms of modern Western psychology and their use in religious counseling. Varieties of religious experiences, psychological interpretations of religious experiences, religion and stages of human development, and techniques of religious counseling. Three credit hours.

PSYC 3365 Fundamentals of Psychosexual Behavior
Prerequisite: PSYC 2300. The emotional, attitudinal, and developmental parameters of human sexual motivation and behavior; masculinity-femininity; sexual deviation; and prevalent sexual behaviors. Three credit hours.

PSYC 3366 Psychology of Women
Prerequisite: Psychology 2300. The study of the psychology of women, emphasizing the different views of women in our society, the bases of these views, and their implications for men and women. Three credit hours.

PSYC 3368 Psychology Cooperative Education
Prerequisites: completed 30 semester hours with a 2.50 GPA overall, PSYC 2300, six upper-level hours in psychology and consent of the psychology department coordinator and the director of cooperative education. Transfer students must have completed one semester in residence. Prerequisite or corequisite: PSYC 2340 or 2310. Designed to complement and extend the classroom learning experience through the application of psychology-based concepts, skills, and technology in a professional work environment. PSYC 3368 normally requires 200 hours per semester with the employer. Number of work hours, activities, and responsibilities depends on the nature of the work and must be specified in a written agreement coordinated with the course instructor and the Office of Cooperative Education. Grading is based on the criteria of the written agreement and is the responsibility of the instructor. Three credit hours.

PSYC 3369, 3469 Internship
Prerequisites: junior standing, consent of instructor. Provides practical experience in a professional urban setting. Students work in a business, government agency, state mental health institution, or similar location giving opportunities to apply their academic background to develop applied skills. Three or four credit hours.

PSYC 3370 Industrial Psychology
Prerequisite: PSYC 2300. A survey of the field of industrial psychology. Application of psychological principles to prediction, performance criteria, job analysis, employee evaluation, training, work environment, management, motivation, and job satisfaction. Recommended for business students and those interested in applied psychology. Three credit hours.

PSYC 3375 Psychology of Consumer Behavior
Prerequisite: PSYC 2300. Psychology of advertising; motivational, perceptual, social, and learning variables influencing consumer choice. Recommended for advertising, marketing, business, and psychology majors. Three credit hours.

PSYC 3380 Cognitive Psychology
Prerequisite: PSYC 2300. An introduction to theories and research regarding human information processing. Topics include attention, memory, problem solving, information representation, and individual differences in cognitive ability. Three credit hours.

PSYC 4100 Senior Synthesis
Prerequisite: senior standing and 18 hours in psychology, or consent of instructor. Capstone course, applying knowledge and skills from previous psychology courses. One credit hour.

PSYC 4300 Drugs and Behavior
Prerequisite: PSYC 2300, senior standing, or consent of instructor. An analysis of the effects of drug administration on ongoing behavior and learning. Emphasis on drugs of clinical application and usages. Dual-listed in the UALR Graduate Catalog as PSYC 5300. Three credit hours.

PSYC 4301 Drug Abuse
Prerequisite: PSYC 2300. A study of drug abuse and addiction with an emphasis on pharmacological, psychological, and behavior aspects of abused drugs. There is also an emphasis on the differing treatments used in the attempt to control these addictions. Three credit hours.

PSYC 4310 Counseling Psychology
Prerequisite: PSYC 2300, senior standing, or consent of the instructor. A survey of the field of counseling and its philosophy, with emphasis on the counseling relationship. Educational, vocational, industrial, and personal counseling are covered. Dual-listed in the UALR Graduate Catalog as PSYC 5310. Three credit hours.

PSYC 4320 Physiological Psychology
Prerequisite: PSYC 2300. Principal neuroanatomical structures, with emphasis on their behavioral correlates. Three credit hours.

PSYC 4221, 4321 Independent Study
Prerequisite: senior standing psychology major, consent of the professor. Readings and research in various areas of psychology. Two or three credit hours.

PSYC 4325 Personnel Psychology
Prerequisites: PSYC 2300, three hours of statistics. Analysis of industrial psychology in terms of personnel work. Topics include predictors and related issues, criteria and related issues, statistical analysis for selection and placement, testing, interviews and other non-test procedures, personnel development, and attitude measurement. Dual-listed in the UALR Graduate Catalog as PSYC 5325. Three credit hours.

PSYC 4330 Learning and Memory
Prerequisite: PSYC 2300. Fundamental principles of conditioning and learning. Topics include traditional and modern approaches to reinforcement, punishment, generalization, discrimination, constraints on learning, and applications of learning principles. Dual-listed in the UALR Graduate Catalog as PSYC 5330. Three credit hours.

PSYC 4335 Personality and Social Development
Prerequisite: PSYC 2300. Recommended: PSYC 3356. Examines the interaction between developing children and the social environment and the implications for adult personality using an Eriksonian stage model. Constitutional predispositions, parental care giving, modeling, peer interaction, and social institutions considered. Three credit hours.

PSYC 4336 Cognitive Development
Prerequisite: PSYC 2300, 3356, and senior standing or consent of the instructor. An introduction to the theories and research on the development of thinking in infants, children, and adolescents. Dual-listed in the UALR Graduate Catalog as PSYC 5336. Three credit hours.

PSYCH 4337 Adult Psychology and Aging
Prerequisite: PSYC 2300 with grade of C or greater. This comprehensive course focuses on typical transitional aspects of development across the adult lifespan including physical, cognitive, emotional, and social development domains. Theoretical perspectives and practical applications from psychology will be emphasized including cross-cultural, gender, ethnic, familial, historical perspectives, and temporal culture interventions. Three credit hours.
PSYC 4340 Shaping of Human Behavior
Prerequisite: PSYC 2300, and senior standing or consent of the instructor. A study of the application of principles of learning and conditioning to the shaping of the behavior of people in a variety of settings. Ethical issues in changing human behavior. Dual-listed in the UALR Graduate Catalog as PSYC 5340. Three credit hours.

PSYC 4345 History of Psychology
Prerequisite: PSYC 2300. An examination of concepts, methods, and systems that have contributed to the development of modern psychology. Provides excellent preparation for the Advanced Psychology GRE. Three credit hours.

PSYC 4355 Psychology of Personal Adjustment
Prerequisite: PSYC 2300. A study of the healthy personality, emphasizing characteristics, development, and promotion of mental health. Three credit hours.

PSYC 4363 Organizational Psychology
Prerequisite: PSYC 2300 or consent of the instructor. An analysis of the interplay of individuals and the organizations for which they work. Topics include job satisfaction, motivation, morale, leadership, group dynamics, conflict, communication, union-management relations, and organizational growth and development. Three credit hours.

PSYC 4365 Psychological Disorders of Childhood
Prerequisite: PSYC 2300, and senior standing or consent of instructor. A study of the nature, causes, and treatment of disturbed behavior in children and their families. Topics include childhood psychoses, attention deficit disorder, autism, depression, behavior problems, and the abused child. Dual-listed in the UALR Graduate Catalog as PSYC 5365. Three credit hours.

PSYC 4370 Psychology of Personality
Prerequisite: PSYC 2300 and PSYC 3360. A critical survey of modern approaches to the organization and development of personality, with extensive reading to integrate experimental, clinical, biographical, and cultural evidence. Three credit hours.

PSYC 4380 Human Factors Psychology
Prerequisite: PSYC 2300. An analysis of relevant information about human behavior for the design of physical objects people use, the methods for their use, and the design of environments in which people live and work. Three credit hours.

PSYC 4385 Psychology and Public Health
Prerequisites: PSYC 2300, and senior standing, or consent of the instructor for undergraduates; graduate standing for graduates. Considers how psychological science and applications can help shape community health and public health efforts. Issues related to health psychology research, community psychology, preventive health, and public health practice will be considered. Will explore innovative public health models in which psychological science or applications have been prominent. Dual-listed in the UALR Graduate Catalog as PSYC 5385. Three credit hours.

PSYC 4290, 4390 Senior Seminar
Prerequisite: PSYC 2340 and senior status in psychology major. Topics vary with instructor. Two or three credit hours.

PSYC 4397 Social Studies Teaching Applications
A link between social studies content with practical applications for classroom instruction. Information comes from history, geography, political science, sociology/anthropology, and psychology. Content modeled for prospective secondary education teachers to illustrate how content can be applied in the classroom. Critical components of each discipline integrated into the content presentations and the demonstrated applications. Team taught. Three credit hours.

PSYC 4412 Computer Applications in Psychology
Prerequisite: consent of instructor. The basic instrumentation involved in psychological research, with emphasis on the use of programming language in experimental situations and interfacing microcomputers with common laboratory equipment. Two hours lecture, four hours laboratory per week. Four credit hours.

PSYC 4450 Experimental Psychology
Prerequisites: PSYC 2300, 2340. General methodological principles and techniques of psychological experimentation. Students design, conduct, analyze, and report experiments in their areas of interest. Three hours lecture, two hours laboratory. Four credit hours.

PSYC 4360 Psychological Tests and Measurement
Prerequisite: PSYC 2300 with grade of C or greater, and three hours of college-level statistics. An examination of classical test theory with extensive treatments of reliability, validity, item analysis and standardization. An introduction to other scaling and test construction approaches is included. The construction and use of common psychological tests are considered. Three credit hours.

PSYC 4495 Practicum in Psychology
Prerequisites: senior standing, consent of instructor. The student will perform independent laboratory research or assist in the instructional process. Four credit hours.
Department of Rhetoric & Writing

The department offers students first-year composition, a variety of specialized courses to help improve writing skills, a bachelor’s in professional and technical writing, and a master’s degree in professional and technical writing. The department also maintains the University Writing Center, where all students who wish to work on specific writing needs are welcome.

General Information

First-Year Composition

The first-year composition sequence consists of RHET 1311 Composition I and RHET 1312 Composition II. These courses fulfill the UALR core curriculum requirements. Students must complete RHET 1311 with a grade of C or greater before enrolling in RHET 1312. Together, these courses help students develop the writing skills needed to pursue a college degree. In addition, RHET 0310 Composition Fundamentals is offered for students who are not prepared for RHET 1311; RHET 0310 is taken concurrently with RHET 1311.

Honors composition

Students with an ACT English score of 27 or greater and who have an A or B in high school English are invited to enroll in RHET 1320 Honors Composition. Students who feel they qualify for Honors Composition but who do not receive invitations should contact the Department of Rhetoric and Writing office at (501) 569-3160. RHET 1320 satisfies the core curriculum requirement in written literacy.

Exempting RHET 1311

Students with an ACT English score of 29 or greater or a COMPASS score of 99 or greater are automatically exempted. They may enroll either in RHET 1320 or in RHET 1312 to complete the core curriculum composition requirement.

Testing out of composition

Students who feel they already have the requisite skills of either RHET 1311 or 1312 may attempt to complete these requirements by examination. For information about test dates, required fees, and test content, students should contact the Office of Testing Services. The tests parallel the contents of RHET 1311 and 1312. A student who successfully tests out of a course will receive no grade but will receive three credit hours toward graduation.

Transfer students

Students transferring 60 or more hours to UALR who have met the first-year composition requirement at the college previously attended may be exempted from UALR’s first-year composition requirement.

Degrees

Major in Professional and Technical Writing

After admission to UALR, any student may declare a major in Professional and Technical Writing. To discuss the major, students are encouraged to visit the Chair of the Department of Rhetoric and Writing in SUB 100. Appointments may be arranged by calling (501) 569-3160.

The Department of Rhetoric and Writing seeks to develop written and rhetorical literacy among its majors, UALR students, and the larger communities of which it is a part. Its alumni work as technical writers, grant writers, freelance writers, teachers, non-fiction writers, ghost writers, web developers, and editors.

Minor in Writing

A minor in writing requires 18 hours beyond the core curriculum requirements, selected from the following rhetoric and writing courses.

Course Sequencing

The Department of Rhetoric and Writing strongly advises that, as much as possible, majors take required courses in the following sequence immediately after declaring the major:

- RHET 3220 Introduction to Professional and Technical Writing
- RHET 3301 Editing for Usage, Style, and Clarity.

Note that RHET 3315 Persuasive Writing, RHET 3317 Nonfiction, and RHET 3326 Technical Writing are prerequisites for most 4000-level courses, so they should be taken as soon as possible after the introductory courses. RHET 4305 Document Design applies to all types of professional writing and should also be taken early in the major.

Students should take RHET 4301 Theories of Rhetoric in their first semester as a senior, and take RHET 4190 Colloquium in Rhetoric and Writing in their last semester before graduation.

Departmental advisors will assist majors in sequencing the courses to fit their schedules.
Bachelor of Arts in Professional and Technical Writing

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. See page 36 for details.

Core (44 hours)
See page 25 for requirement details.
PTW majors are encouraged to take MCOM 2330 Mass Media and Society as part of their Social Sciences requirement in the Core.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (36 hours)
College and/or Program Foundation Courses (x hours)
- RHET 3220 Introduction to Professional and Technical Writing
- RHET 3301 Editing for Usage, Style and Clarity
- RHET 3315 Persuasive Writing
- RHET 3326 Technical Writing
- RHET 3317 Nonfiction
- RHET 4305 Document Design
- RHET 4301 Theories of Rhetoric and Writing
- RHET 4190 Colloquium in Rhetoric and Writing

Electives (15 hours)
The electives may not include RHET 3316, not more than 6 hours total in the following: internships, independent writing projects, and/or upper level MCOM courses. We recommend students take RHET 3300 Introduction to Research.
- RHET 3300 Introduction to Research
- RHET 3320 Contemporary Issues in Language and Rhetoric
- RHET 4100, 4200 Independent Study
- RHET 4191, 4192 Writing Internship
- RHET 4304 Technical Style and Editing
- RHET 4306 Writing for Business and Government
- RHET 4307 Writing Software Documentation
- RHET 4315 Advanced Persuasive Writing
- RHET 4317 Advanced Nonfiction Writing
- RHET 4318 Auto/biography
- RHET 4321 Editing for Publication
- RHET 4322 Advanced Editing
- RHET 4325 Legal Writing, Reasoning, and Argument
- RHET 4345 Topics in Persuasive Writing (may be repeated)
- RHET 4346 Topics in Technical Communication (may be repeated)
- RHET 4347 Topics in Nonfiction Writing (may be repeated)
- RHET 4371 Writing on the Web
- RHET 4375 Grant Writing
- RHET 4395, 4396 Cooperative Education
- RHET 4398, 4399 Senior Writing Project

Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Minor in Legal Studies
Joanne Matson, Coordinator
SUB 108 | (501) 569-8386 | jmatson@ualr.edu

The legal studies minor provides the opportunity to develop a greater understanding of law and legal institutions. The program is broadly humanistic, giving students a general knowledge of the institutional, philosophical, and historical character of the legal system. Course work in the program is designed to help students understand and use written and spoken language, to foster a critical understanding of the human institutions and values with which the law deals, and to stimulate creative thinking.

A minor in legal studies is not designed specifically to prepare a student for law school. There is no recommended major or minor for law school. If you are interested in attending law school, the best preparation is an undergraduate curriculum that requires you to investigate information, analyze it, and explain your conclusions clearly. Most often a broad liberal arts background is the best preparation for these tasks. See “Prelaw Studies” for further information about preparation for law school.

The minor requires 18 hours, which must be approved by the coordinator. No more than nine hours may be chosen from any one discipline. The student’s individual needs and interests are important considerations in the course selection process. This minor may also be chosen as one of the concentrations in the Bachelor of Arts in Interdisciplinary Studies curriculum. Before beginning the program, students should get a list of approved courses for the minor by contacting the coordinator.

For more information contact the coordinator, Joanne Liebman Matson, in the Department of Rhetoric and Writing, SUB 108, (501) 569-8386, or jmatson@ualr.edu.

Courses in Rhetoric
RHET 0310 Composition Fundamentals
Practice in writing, with an emphasis on developing fluency and editing. This course does not fulfill the core curriculum requirement and is intended for students who are not ready for RHET 1311; RHET 0310 is taken concurrently with RHET 1311. Institutional credit only; final grades are A, B, C, or NC. Three credit hours.

RHET 0321 Academic Literacy
Practice in academic writing and reading with an emphasis on developing strategies and skills for college success: reading and writing fluency, editing techniques, reading comprehension, and vocabulary development. This fulfills the requirement for developmental reading and writing, but does not fulfill a core curriculum requirement. Institutional credit only; final grades are A, B, C, or No Credit. This is a combined lecture/lab course. Three credit hours.

RHET 1311 Composition I
Prerequisite: A minimum ACT English score of 19, a minimum SAT I verbal score of 450, RHET 0310, or RHET 0321. Practice in writing, with an emphasis on personal, expressive writing, as well as transactional writing. Students will focus on organizing and revising ideas and writing well organized, thoroughly developed papers that achieve the writer’s purpose, meet the readers’ needs, and develop the writer’s voice. Final course grades are A, B, C, or NC. Students must complete this course with a grade of C or greater to take RHET 1312. Three credit hours. (ACTS Course Number ENGL 1013)
RHET 1312 Composition II
Prerequisite: RHET 1311 with a C or greater or equivalent. Those students required by state law to enroll in RHET 0321 must successfully complete that course before enrolling in RHET 1312. Practice in writing, with an emphasis on academic forms. Students will focus on analysis, argumentation, research, and documentation writing. Final course grades are A, B, C, or NC. Three credit hours. (ACTS Course Number ENGL 1023)

RHET 1320 Honors Composition
For students with superior achievement in English. Fulfills first year composition core curriculum requirement. Admission by invitation. Three credit hours.

RHET 1110 Composition Fundamentals Writing Laboratory (The University Writing Center)
Individualized supplemental help for students enrolled in RHET 0310 or 1311. Practice in basic grammar and writing skills. May be used as a refresher course before taking RHET 1311; may be used to prepare for composition test-outs. Graded CR/NC. One credit hour.

RHET 1130 Writing on Computers (The University Writing Center)
A practical course for writers to use the computer in the composing process. Students will learn one word processing program well, integrate it into their individual writing processes, and use other software that supports writing on computers. One credit hour.

RHET 2100 Writing Laboratory (The University Writing Center)
Individualized supplemental help for students enrolled in RHET 1312 or who have completed composition courses. May be used as a refresher course. Graded CR/NC. One credit hour.

RHET 2312 Advanced Composition
Prerequisite: RHET 1312 or equivalent. A course designed to offer the student advanced practice in essay and other academic writing forms; includes review of composition modes as well as grammar and mechanics. The course is especially appropriate for returning, transfer, and other students who want or need additional writing practice in preparation for performance in upper-level coursework, or students who wish additional writing practice before entering a writing major. Three credit hours.

RHET 3200 Introduction to Professional and Technical Writing
Prerequisite: RHET 1312 or the equivalent. An introduction to the Rhetoric and Writing major and professional and technical writing theory and practice. Two credit hours.

RHET 3300 Introduction to Research
Prerequisite: RHET 1312 or the equivalent. Introduction to quantitative and qualitative research methods and the research process as applied to the study of written communication. Three credit hours.

RHET 3301 Editing for Usage, Style, and Clarity
Prerequisites: RHET 1311 and 1312 or equivalents. An introductory editing course that focuses on basic editing and proofreading skills. Course includes review of grammar, punctuation, and mechanics. Editing practice includes work with the student’s own writing as well as secondary texts. Three credit hours.

RHET 3315 Persuasive Writing
Prerequisite: RHET 1312 or the equivalent. A theoretical and practical introduction to the art of written persuasion. Emphasis on persuasive techniques and their ethical consequences. Three credit hours.

RHET 3316 Writing for the Workplace
Prerequisite: RHET 1312 or the equivalent. Study and practice of workplace communication required of professionals who write as part of their jobs. Emphasis on developing a sense of audience and purpose, writing in teams, and learning problem solving strategies. Intensive practice writing workplace documents such as memos, letters, e-mail, résumés, and reports. Three credit hours.

RHET 3317 Nonfiction
Prerequisite: RHET 1312 or the equivalent. Study and practice of nonfiction writing to explore, investigate, and explain ideas, experiences, and perspectives. Emphasis on style, voice, revision, and collaboration. Three credit hours.

RHET 3320 Contemporary Issues in Language and Rhetoric
Prerequisites: RHET 1311 and 1312 or equivalents. A study of contemporary issues in language research from rhetorical and social perspectives. Three credit hours.

RHET 3326 Technical Writing
Prerequisite: RHET 1312 or the equivalent. Intensive instruction in the theory and practice of technical communication. Emphasis on understanding audience, establishing a clear purpose, using technical terms, acquiring a sense of the profession, and developing strategies for successfully producing individual and collaborative documents. Practice writing genres such as reports, instructions, descriptions, specifications, and proposals. Three credit hours.

RHET 4100, 4200 Independent Study
Prerequisites: senior standing, 12 hours of upper-level RHET courses. For the student of superior ability who wishes to undertake an independent writing project. One or two credit hours.

RHET 4190 Colloquium in Rhetoric and Writing
Prerequisite: senior standing. Focuses on professional development and synthesizing the major concepts within rhetorical/writing theory. One credit hour.

RHET 4202 Teaching Writing in Secondary Schools
Prerequisite: RHET 1312. A methods course team-taught by faculty from the Departments of English and Rhetoric and Writing. Topics include making classroom presentations, managing small-group work, responding to student writing, evaluating and using secondary school literature and composition textbooks, and learning approaches to teaching literature and writing. Taken in conjunction with ENGL 4202. Dual-listed in the UALR Graduate Catalog as RHET 5202. Two credit hours.

RHET 4191, 4291 Writing Internship
Prerequisites: junior standing, consent of director. On-the-job training for students planning to enter a writing career or teach writing. For assignment, see the director of the University Writing Center in the Department of Rhetoric and Writing. CR/NC grading optional. One or two credit hours.

RHET 4301 Theories of Rhetoric and Writing
Prerequisites: RHET 3315 with a grade of C or greater, or consent of instructor. A study of theories of rhetoric and writing. Dual-listed in the UALR Graduate Catalog as RHET 5301. Three credit hours.

RHET 4304 Technical Style and Editing
Prerequisites: RHET 301 with a grade of C or greater, or consent of instructor. Survey of institutional and industrial style manuals. Intensive practice in editing technical, business, government, and scientific reports. Dual-listed in the UALR Graduate Catalog as RHET 5304. Three credit hours.

RHET 4305 Document Design
Prerequisites: RHET 3316 or 3326. Study and practice of the use of visual elements in technical communication. Emphasis on typography, page layout, data displays, pictorial communication, and usability testing for both print and online documents. Dual-listed in the UALR Graduate Catalog as RHET 5305. Three credit hours.

RHET 4306 Writing for Business and Government
Prerequisite: RHET 3316 or 3326 with a grade of C or greater, or consent of instructor. Theory of and practice in writing for government and business organizations. Topics will include training manuals, job descriptions, policy writing, records, and correspondence. Dual-listed in the UALR Graduate Catalog as RHET 5306. Three credit hours.
RHET 4307 Writing Software Documentation
Prerequisite: RHET 3316 or 3326 with a grade of C or greater, or consent of instructor. Study and practice of writing documentation for computer software, including printed manuals, tutorials, reference guides, and online help systems. Emphasis on analyzing prospective users and their tasks, interviewing subject matter experts, developing help for different levels of users, writing user-friendly text, editing documentation for style and clarity, and working on a documentation team. Intensive practice with RoboHELP HTML software for composing online help. Dual-listed in the UALR Graduate Catalog as RHET 5307. Three credit hours.

RHET 4315 Advanced Persuasive Writing
Prerequisite: RHET 3315 with a grade of C or greater, or permission of the instructor. Intensive study of classical and new rhetorics. Emphasis on solving rhetorical problems. Dual-listed in the UALR Graduate Catalog as RHET 5315. Three credit hours.

RHET 4317 Advanced Nonfiction Writing
Prerequisite: RHET 3317 with a grade of C or greater, or consent of the instructor. An advanced nonfiction writing class. Study and practice of writing to explore, investigate, and explain. Students will write a variety of professional, scholarly, and popular essays. Dual-listed in the UALR Graduate Catalog as RHET 5317. Three credit hours.

RHET 4321 Editing for Publication
Prerequisite: RHET 4301. A hands-on experience in pre-production editing for publication. Includes study of the editing process, manuscript acquisition, the peer review process, manuscript editing, editorial correspondence, and pre-production manuscript preparation. Dual-listed in the UALR Graduate Catalog as RHET 5321. Three credit hours.

RHET 4322 Advanced Editing
Prerequisite: RHET 4304 or RHET 4321, or comparable skills as determined by the instructor. Topics include editing graphics, illustrations, and document design; editing for comprehension and organization; editing text electronically, applying styles to text, and creating templates; studying legal and ethical issues in editing; acquiring project management and effective teamwork skills. Students work with actual clients and their document needs. Dual-listed in the UALR Graduate Catalog as RHET 5322. Three credit hours.

RHET 4325 Legal Writing, Reasoning, and Argument
Prerequisite: RHET 3315 or permission of instructor. Designed for all majors, particularly for pre-law students and writers interested in the discourse of the law. Students will read a variety of judicial decisions on current issues such as Freedom of Speech and complete several relatively short assignments focusing on legal reasoning and argument. Students will also learn how to find information on legal decisions and issues. Dual-listed in the UALR Graduate Catalog as RHET 5325. Three credit hours.

RHET 4345 Topics in Persuasive Writing
Prerequisite: RHET 3315 with a grade of C or greater, or consent of the instructor. Theory and practice of persuasion with topics varying each semester. Dual-listed in the UALR Graduate Catalog as RHET 5345. Three credit hours.

RHET 4346 Topics in Technical Communication
Prerequisite: RHET 3316 or RHET 3326 with a grade of C or greater, or consent of the instructor. The theory and practice of technical communication; topics vary each semester. Dual-listed in the UALR Graduate Catalog as RHET 5346. Three credit hours.

RHET 4347 Topics in Nonfiction Writing
Prerequisite: RHET 3317 with a grade of C or greater, or consent of the instructor. Theory and practice of nonfiction writing with topics varying each semester. Dual-listed in the UALR Graduate Catalog as RHET 5347. Three credit hours.

RHET 4371 Writing on the Web
Prerequisite: RHET 3316 or RHET 3326 with a grade of C or greater, or consent of instructor. Ability to compose effective technical writing and/or computer competency. Introduction to basic web design and construction; course emphasizes audience(s), purpose(s), and accessibility issues such as web site navigation, multiple browsers, and ADA compliance. Dual-listed in the UALR Graduate Catalog as RHET 5371. Three credit hours.

RHET 4375 Grant Writing
Prerequisite: RHET 3316 or RHET 3326 with a grade of C or greater, or consent of the instructor. Survey, theory and practice of grant writing (solicited and non- solicited) and the philanthropic sector. Topics include, but are not limited to, finding and researching a foundation, resources for each stage of the grant writing process, developing a problem statement, creating objectives and goals, creating a budget, and working with foundations. Dual-listed in the UALR Graduate Catalog as RHET 5375. Three credit hours.

RHET 4395,4396 Cooperative Education
Prerequisite: RHET 3315, 3316, or 3317; recommendation of the departmental cooperative education coordinator. Designed to complement and extend the classroom learning experience through the application of theoretical concepts in a professional workplace. Exact number of work hours, activities, and responsibilities depend on the work experience and must be specified in a written agreement between the employer and student in coordination with the Office of Cooperative Education. Three credit hours.

RHET 4398,4399 Senior Writing Project
Prerequisites: senior writing major or minor with 12 hours of upper-level courses. Student will complete either a portfolio or a final project written in cooperative arrangement with advisor from both major and minor department. Three credit hours.
The department offers courses and programs designed to teach students to analyze and understand basic socio-cultural processes, statuses, and roles; to this end, we conduct a yearly assessment to determine how well we have achieved these objectives. The department also prepares students for careers and graduate study in sociology, anthropology, health services administration, public administration, and social work; contributes to the liberal arts training and knowledge of all undergraduates; and provides intellectual skills for students considering careers in these professions and in business.

**General Information**

**Awards and Scholarships**

**Katherine J. Hardie Award in Anthropology**
This award is given to the outstanding graduating senior in anthropology each year. The recipient’s name will be engraved on the Hardie Memorial Plaque displayed in the department office. In addition, the recipient will receive an individual plaque.

**Outstanding Graduate Award in Sociology**
This award honors the graduating senior sociology major who has the highest grade point average.

**Mark Hartmann Anthropology Student Fellowship**
The purpose of this award is to provide financial assistance to students for participation in anthropological field work or field school concurrently with their studies in pursuit or enrichment of a degree in Anthropology at the University of Arkansas at Little Rock. Expenses covered by this award may include, but are not limited to, tuition and related travel expenses.

**Libbet Crandon-Malamud Memorial Scholarship**
Awarded to a UALR junior or senior with a minor in Gender Studies and with plans to pursue graduate education in the field of gender or women’s studies. Must have a 3.0 GPA.

**Beth and Earl Richard Endowed Scholarship**
This scholarship is awarded to a full or part-time UALR student major in sociology/anthropology. Selection is based on academic accomplishment with financial need as a secondary consideration.

**Student Organizations**
The department seeks to promote a sense of collegiality among students. This is reflected in the student-governed Sociology Club (Sarah Beth Estes and Adriana Lopez-Ramirez, faculty sponsors), and Anthropology Club (Katie King, faculty sponsor). Students new to the department should check with the faculty sponsors for meeting times and activities.

In addition, the honors sociology organization, Alpha Kappa Delta, and the honors anthropology organization, Lambda Alpha, provides majors with a 3.00 grade point average or above access to professional and social activities.

**Field Experience**
Field experience opportunities are available and highly recommended for all majors. Placements are offered in nearly 50 public and private agencies and organizations throughout central Arkansas. A list of current opportunities is available in the department office.

**Prerequisites**
The department requires that prerequisites be met for all classes. Students wishing to enroll in a course without the specified prerequisite courses must petition the department for permission to enroll.

**Minors Available**

**Minor in Sociology**
A minor in sociology requires 18 credit hours of sociology, including SOCI 2300 Introduction to Sociology and either SOCI 3383 Classical Sociological Theory or SOCI 3384 Contemporary Sociological Theory.

**Minor in Anthropology**
A minor in anthropology requires 18 credit hours of anthropology, including ANTH 1415 Physical Anthropology and ANTH 2316 Cultural Anthropology.

**Minor in Gender Studies**
The Gender Studies program is an 18-hour interdisciplinary minor. The minor is designed to help students understand and define the changing roles of women and men brought about by social, economic, political, legal and other changes in society.

Requirements for the minor include an introductory course, 2300; a senior-level seminar, GNST 4300; and 12 hours chosen in consultation with the gender studies coordinator from GNST 3315, 3333, 3340, 3346, 3350, 3366, 3388, 4190, 4195, 4290, 4295, 4371, 4372, 4390, and 4395. Other courses may be accepted with the consent of the coordinator. For more information, contact the coordinator at (501)-569-3173, or by email at sbestes@ualr.edu.
**Bachelor of Arts in Sociology**

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**
See page 25 for requirement details.

**Second Language Proficiency (0-9 hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (30 hours)**
- SOCI 2300 Introduction to Sociology
- SOCI 3381 Social Statistics
- SOCI 3381 Classical Sociological Theory
- or SOCI 3384 Contemporary Sociological Theory
- SOCI 3385 Research Methods
- SOCI 4387 Seminar in Applied Sociology
- 15 upper level credit hours of SOCI courses

**Minor (12-29 hours—typical minor requires 18)**

**Unrestricted General Electives**
Remainder hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

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**Bachelor of Arts in Anthropology**

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**
See p. x for requirement details.

**Second Language Proficiency (0-9 hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (32 hours)**

**Anthropology Foundation Courses (19 hours)**
- ANTH 1415 Physical Anthropology (also counts toward the core)
- ANTH 2316 Cultural Anthropology (also counts toward the core)
- ANTH 3313 Archaeology
- Or ANTH 4600 Principles of Archaeological Research
- Or another archaeology course approved by the anthropology coordinator
- ANTH 4382 Anthropological Theory
- ANTH 4316 Linguistic Anthropology
- ANTH 4395 Senior Seminar in Holism

**Electives (13 hours)**
1 ANTH 3381 and ANTH 4485 are strongly recommended.

**Minor (12-29 hours—typical minor requires 18)**

**Unrestricted General Electives**
Remainder hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

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**Nonprofit Leadership Studies**

Juliana Flinn, Campus Director

Nonprofit Leadership Studies (formerly American Humanics) is a competency-based minor and certificate program designed to prepare and certify students to work for nonprofit organizations. To complete the minor and earn the Nonprofit Leadership Studies certificate, students must demonstrate that they have acquired the Nonprofit Leadership Studies competencies. The Nonprofit Leadership Studies Campus Director is responsible for certifying that a student has acquired the required competencies. Students acquire these competencies through the following:
- A minimum of 180 contact hours, fulfilled through
  - 18 hours of approved courses in the minor (see list below)
  - Participation in approved workshops or seminars;
  - A minimum of 300 hours of internship (for six credit hours);
  - Participation in the Nonprofit Leadership Studies Student Association and a Nonprofit Leadership Studies Management Institute.

Recommended courses for students considering this program include PEAW 1300, 2124, and EDFN 1190. Requirements include: NPLS 1100, NPLS 3300, NPLS 4310, NPLS 4301, and 4302; co-curricular activities including two semesters of active participation in the Nonprofit Leadership Student Association and attendance at a Nonprofit Leadership Studies Management Institute; and two or more electives for a total of at least 5 hours selected from the following:
- MCOM 4380 Public Relations Writing
- MGMT 3300 Organizational Behavior and Management
- MKTG 3350 Principles of Marketing
- NPLS 4320 Volunteer Management
- NPLS 4390 Special Topics
- NPLS 4180, 4280, or 4380 Independent Study
- RHET 4375 Grant Writing

Students may also seek Nonprofit Leadership Studies certification without seeking the minor. It may be possible, for example, to count work experience or internship experience for the major towards the Nonprofit Leadership Studies certificate, and then only 12 hours of course work might be sufficient for certification, though not the minor. In such cases, the student develops a program with the approval of the Nonprofit Leadership Studies Campus Director.

**Courses in Sociology (SOCI)**

**SOCI 2300 Introduction to Sociology**
Recommended: RHET 1311. Introduction to sociological concepts. Analysis of society, particularly the study of human organization. An overview of the theories and methods utilized in the discipline is provided and will be used as a framework for critical analysis. Students will learn to investigate group and societal connections in major social institutions-religion, family, politics, economics, education. Three credit hours. (ACTS Course Number SOCI 1013)

**SOCI 2301 World Cultures**
See INTS 2301.

**SOCI 3300 Sociology of Sports**
An overview of sports in the contemporary United States; covers the athletes, the spectators (on site, television, and radio), the therapeutic functions for individuals, and the impact of sports on other institutions in society. Explores the commercialization of sports and its effects on other economic activities. Three credit hours.

**SOCI 3312 North American Indians**
Prerequisite: ANTH 2316. A study of Indian cultures from the Arctic to northern Mexico from immediately after European contact to the present. Three credit hours.

**SOCI 3316 Japanese Culture and Society**
Prerequisite: ANTH 2316 or SOCI 2300. The anthropological and sociological study of Japanese culture and society; covers Japanese history, major social institutions, and aspects of culture that are unique to Japan. Three credit hours.

**SOCI 3318 Sexuality, Society, and Culture**
See ANTH 3318.

**SOCI 3330 Racial and Minority Groups**
Prerequisite: SOCI 2300. Analysis of social processes in a pluralistic society, with emphasis on the cultural contributions and ethos of the different ethnic groups. Three credit hours.
SOCI 3333 Women in a Changing Society  
Prerequisite: SOCI 2300. An analysis of the socialization of women for their ascribed roles, with emphasis on the molding forces of culture and the changes taking place in women’s roles in contemporary, US, and other societies. Three credit hours.

SOCI 3334 Social Problems  
Prerequisite: SOCI 2300. Application of sociological principles to the study of social problems, such as juvenile delinquency, sex-based inequality, educational systems, ethnic groups, ethnic group conflict, crime, industrial conflict and unemployment, poverty, and the maintenance of a free society. Three credit hours.

SOCI 3335 Sociology of Deviant Behavior  
Prerequisite: SOCI 2300. A survey of deviant behavior in modern society. Emphasis on the theories and causes of deviant behavior, including societal reactions and deviant action and reaction in the contemporary United States. Emphasis on the various theoretical orientations used in sociology today. Three credit hours.

SOCI 3336 Criminology  
Prerequisite: SOCI 2300. The nature of criminal deviation, theories of causations, processes of criminal justice, penal and correctional methods and institutions. Three credit hours.

SOCI 3337 Juvenile Delinquency  
Prerequisite: SOCI 2300. Juvenile delinquent behavior, problems, theory, cause, control, and prevention. Three credit hours.

SOCI 3340 Experiences of Black Americans  
Prerequisite: SOCI 2300. The experiences of blacks in America are subdivided into significant periods with corresponding motifs. Attempts will be made to conceptualize the major influences from each motif-period in the struggle of blacks for sociopolitical and economic equality in a dominantly white society. Three credit hours.

SOCI 3341 Urban Sociology  
Prerequisite: SOCI 2300. Analysis of elements of change in cities and suburbs in contemporary society. Social problems related to urbanization and urban centers. Three credit hours.

SOCI 3343 Social Stratification  
Prerequisite: SOCI 2300. Analysis of selected theories of stratification, various lifestyles, other bases of social differentiation, and their consequences for individuals and society. Three credit hours.

SOCI 3346 Sociology of the Family  
Prerequisite: SOCI 2300. The family as a major unifying force for the individual, the community, and the total society, with emphasis on parental and marital dynamics; analysis of the changes associated with the emergence of urban industrial societies. Three credit hours.

SOCI 3350 Family Violence  
A consideration of abuse, neglect, and conflict within the family. Review of basic theories of interpersonal violence and conflict resolution. Focus on abuse of children, siblings, spouses, and elders. Discussion of social policy responses and appropriate interventions. Three credit hours.

SOCI 3370 The Sociology of Mental Health  
The cultural, social, and social-psychological aspects of mental health. Examination of issues such as who is normal, how one is declared abnormal, theories of mental health and illness, and various modes of treatment. Three credit hours.

SOCI 3376 Sociology of Health and Illness  
Prerequisite: SOCI 2300. Sociological theory and research related to social epidemiology and to the organization of efforts to cope with illness and disease. Three credit hours.

SOCI 3381 Social Statistics  
Prerequisite: SOCI 2300. Recommended: MATH 1301 or equivalent. Basic statistical techniques and their corresponding theoretical premises, which are often used in statistical reasoning in sociology. Qualitative variables, characteristics of attributes, measures of their variation, correlation, and tests of significance are stressed. Three credit hours.

SOCI 3383 Classical Sociological Theory  
Prerequisite: SOCI 2300. The conceptual and historical framework of classical sociological theories will be considered. Special emphases will be given to pre-twentieth-century theory and the philosophical underpinnings of sociological theory. Three credit hours.

SOCI 3384 Contemporary Sociological Theory  
Prerequisite: SOCI 2300. Introduction to and critical examination of contemporary sociological theory. The course offers an overview of the concepts, methods, and theoretical perspectives employed by contemporary sociologists. Students are encouraged to take this course after completing SOCI 3383. Three credit hours.

SOCI 3385 Research Methods  
Prerequisite: SOCI 2300. Recommended: MATH 1301 or equivalent. Methods of research in sociology; trends in methodology and use of computers in processing data and presentation of research reports. Three credit hours.

SOCI 3392 Environmental Sociology  
Prerequisite: SOCI 2300. The environment viewed from a sociological perspective. The environmental movement and issues, such as the transition to an ecologically sound society, as they relate to the social structure of United States society. Three credit hours.

SOCI 4320 Sociocultural Change  
See ANTH 4320.

SOCI 4321 Religion, Society, and Culture  
See ANTH 4321.

SOCI 4328 Sociology Field Experience  
Prerequisites: SOCI 2300, senior standing, or consent of chairperson. Practical experience consisting of at least 90 hours of supervised work in a community agency or any other context of sociological interest. The objective is for students to apply theoretical orientations to real world situations and to develop working skills. May be repeated one time. Three credit hours.

SOCI 4330 Political Sociology  
Prerequisite: SOCI 2300. The sociological study of the United States political economy. Sociological theories and concepts applied to the analysis of various aspects of political theory and behavior. Three credit hours.

SOCI 4332 Population Analysis  
Prerequisite: SOCI 2300. Population growth; description of population dynamics; analysis of economic, social and political, and ecological implications of population growth or decrease. Three credit hours.

SOCI 4333 Women in a Changing Society  
Prerequisite: SOCI 2300. Recommended: MATH 1301 or equivalent. Basic statistical techniques and their corresponding theoretical premises, which are often used in statistical reasoning in sociology. Qualitative variables, characteristics of attributes, measures of their variation, correlation, and tests of significance are stressed. Three credit hours.

SOCI 4335 The Sociology of Developing Nations  
Prerequisite: SOCI 2300. A study of the socioeconomic characteristics of third world nations with emphasis on the sociocultural values and dynamics relevant to economic development and programs. Three credit hours.

SOCI 4336 Sociology of Organizations  
Prerequisite: SOCI 2300. Examination of a variety of complex organizations in modern society: schools, hospitals, corporations, unions, universities, and government. Organizational structures and processes are analyzed with emphasis on inter-organizational and organization-environment relations. Three credit hours.

SOCI 4337 Seminar in Sociology  
Prerequisites: SOCI 2300, 3381, 3383 or 3384, 3385 and senior standing. Capstone experience designed to review and apply fundamentals of sociological understanding and research. Topic will vary with instructor.
SOCL 4190, 4290, 4390 Independent Study
Prerequisites: SOCI 2300, 3181, 3381, 3383 or 3384, 3385, 3185 or 15 hours in departmental courses, senior standing, or consent of chairperson. Advanced assignments in selected areas. One, two, or three credit hours.

SOCI 4393 Sociology Internship in the SNRC
Prerequisite: declared major, 60 hours of course work completed, consent of the department chairperson and director of the Sequoyah National Research Center (SNRC). Students will work under the direction of the directors of the SNRC in areas.

SOCI 4195, 4295, 4395 Special Topics
Prerequisites: 15 hours in department or consent of instructor. Topics vary. One, two or three credit hours

Courses in Anthropology

ANTH 1415 Physical Anthropology
A hands-on examination of the study of past and present human and nonhuman primates as biological organisms. Topics include human genetics, variation and osteology, nonhuman primate taxonomy and behavior, forensic anthropology and the human fossil record. Three hours lecture, two hours laboratory per week. Four credit hours.

ANTH 2301 World Cultures
See INTS 2301.

ANTH 2316 Cultural Anthropology
Prerequisite: RHET 1311 recommended. Examines the concept of culture, cultural processes, and anthropological theories. Topics include subsistence strategies, politics, religion, gender, ethnicity, economics, marriage, stratification, and socialization. Case studies from both small-scale and large-scale societies. Required for majors. Three credit hours. (ACTS Course Number ANTH 2013)

ANTH 3312 North American Indians
Prerequisite: ANTH 2316. A study of Indian cultures from the Arctic to northern Mexico from immediately after European contact to the present. Three credit hours.

ANTH 3313 Archaeology
Examination of the archaeological record from the Paleolithic to the Neolithic and the emergence of civilization in both the Old and New Worlds. Required for majors. Three credit hours.

ANTH 3318 Sexuality, Society, and Culture
This course provides a social scientific examination of the nature of sexuality cross-culturally as well as in Western society. Examines sexuality in a broader socio-cultural context and cultural construction used from prehistoric to post-modern eras as a form of reproduction and a means for deep expression of intimacy with others and as a device for the domination and exploitation of people of various social categories. Three credit hours.

ANTH 3319 Cultures of the Middle East
The anthropological study of Middle Eastern culture and society; covers the political conflicts and cultural adaptations in the region. The course also focuses on ethnic differentiation, and the influence of Islam upon all the cultures and peoples of the Middle East. Three credit hours.

ANTH 3378 Medical Anthropology
Prerequisite: ANTH 1415 or 2316. Comparison of non-Western and Western medical systems, definitions of health and disease, kinds of treatment, and varieties of cures; examination of the problem of how to adapt Western medicine to the needs of diverse cultural and ethnic groups. Three credit hours.

ANTH 3381 Social Statistics (See SOCI 3381)
Recommended: MATH 1301 or equivalent. Basic statistical techniques and their corresponding theoretical premises, which are often used in statistical reasoning in sociology. Qualitative variables, characteristics of attributes, measures of their variation, correlation, and tests of significance are stressed. Three credit hours.

ANTH 3383 Human Paleontology
Prerequisite: consent of instructor. Study of the fossil evidence for human evolution and the scientific principles that apply to that study; interpretation of morphological patterns in a functional and adaptive framework; interaction of cultural and biological aspects of hominid development. Three credit hours.

ANTH 3388 Relatives and Relations: Anthropology of Kinship, Marriage, and Family
Prerequisite: ANTH 2316. Systematic treatment of marriage, descent, and alliances on a cross-cultural basis. Examination of social behavior and terminologies related to kinship systems drawn from traditional and modern societies. Three credit hours.

ANTH 4310 Urban Anthropology
Prerequisite: ANTH 2316. A survey of urbanization throughout the world, with emphasis on urban adaptation of rural migrants and the phenomenon of urbanization in emerging nations. Three credit hours.

ANTH 4316 Linguistic Anthropology
Introduction to the subfield of linguistic anthropology. Examines the impact of linguistic structure on culture, socioeconomic factors in linguistic variation, intercultural and intracultural verbal and nonverbal communication. Also examines the theories and methods of descriptive anthropological linguistics applied to non Indo-European languages and introduces the student to structural linguistic analysis. Required for majors. Three credit hours.

ANTH 4320 Sociocultural Change
Prerequisite: ANTH 2316. Sociocultural change resulting from contact of acculturation, question of acceptance and rejection, pressures toward change, the role of the individual, appraisal of anthropological information and theory in a changing world. Three credit hours.

ANTH 4321 Religion, Society, and Culture
Introduction to the role of shamans, witches, diviners, cultic and magic belief systems, function of myth, ritual, religious symbolism, meaning of spirit possession, revitalization, and ancestor worship in tribal, peasant, and modern societies. Three credit hours.

ANTH 4325 Egyptology
This course will survey the archaeology of Egyptian civilization, from the earliest settlement of the Nile River Valley through the conquest of Alexander the Great and his successors. The course will also consider the origins of the field of Egyptology as well as a number of key archaeological sites representing the lives of the elite as well as the ordinary citizens of the Nile River Valley. Three credit hours.

ANTH 4327 Anthropology Field Experience
Practical experience consisting of at least 90 hours of supervised work in a private or public organization. The objective is for students to apply theoretical orientations and anthropological skills in a work situation. Three credit hours.

ANTH 4340 Applied Anthropology
Prerequisite: 15 hours of anthropology or consent of instructor. Selected topics concerning the contribution of anthropology to social services and social planning, especially in the fields of education, health care, law enforcement, and economic development. Three credit hours.

ANTH 4355 Forensic Anthropology
Prerequisite: ANTH 1415 or consent of instructor. Forensic anthropology applied to knowledge of human variation to legal matters. The primary emphasis in this course will be human skeletal variation. The theoretical basis of sex determination, age estimation and ethnic origin classification based upon skeletal characteristics will be examined. Other issues such as fire death scene investigation, interval since death, and forensic archaeology also will be addressed. This course will be offered once a year. Dual-listed in the UALR Graduate Catalog as ANTH 5355. Three credit hours.
ANTH 4155 Forensic Anthropology Laboratory
Corequisite: ANTH 4335 or prerequisite: ANTH 4355. Emphasizes hands-on experience in using anthropometric, morphological and statistical techniques employed in age and stature estimation as well as sex and race determination. Laboratory exercises also include forensic archaeology, treatment and proper handling of forensic anthropology evidence, and how to write a forensic anthropology report. Dual-listed in the UALR Graduate Catalog as ANTH 5155. One credit hour.

ANTH 4180, 4280, 4380 Independent Study
Prerequisites: ANTH 1415 or 2316, junior or senior standing, consent of chairperson. One, two, or three credit hours.

ANTH 4382 Anthropological Theory
Prerequisite: ANTH 1415 or 2316. Examines the range of theories 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, ethnosciences, diffusionism, historical particularism, cultural ecology, sociobiology, and cultural materialism. Required for majors. Three credit hours.

ANTH 4390 Teaching Internship
Prerequisite: consent of instructor. Working with individual instructors, upper-level majors assist lower-level students by holding study sessions twice a week for those enrolled in ANTH 1300, 1315, or 2316 and performing other tasks determined through consultation with the instructor. Three credit hours.

ANTH 4395 Senior Seminar in Holism
Prerequisite: completion of major core. Senior capstone course. Students read and discuss current work bridging the subfields of anthropology and write essays on their understandings of selected goals for the major. Three credit hours.

ANTH 4398 Special Topics
Selected topics in anthropology. Three credit hours.

ANTH 4399 Anthropology Cooperative Learning Internship
Prerequisite: declared major, 60 hours of course work completed, consent of the department chairperson and director of cooperative education. Placement in an applied work experience in either physical or cultural anthropology or archaeology. Students will work under the direction of specialists in these areas or specialists in related areas. Credit will be awarded based on at least 200 hours of work during the semester and fulfillment of the contractual obligations agreed to by both UALR and the public/private agency where placement occurs. Three credit hours.

ANTH 4485 Ethnographic Methods
Prerequisite: ANTH 2316. Instruction and supervised practice in data gathering methods and analyses in native or ethnic settings. Lectures and discussions twice weekly. The fourth hour is reserved for field study. Data gathering methods, analysis in native or ethnic settings. Dual-listed in the UALR Graduate Catalog as ANTH 5485. Four credit hours.

ANTH 4600 Principles of Archaeological Research
Introduction to methods and theory of archaeological research, Arkansas prehistory, and public archaeology through excavation, laboratory experience, and lectures. Meets daily, off campus. Six credit hours.

Courses in Nonprofit Leadership Studies (NPLS)

NPLS 1100 Introduction to Nonprofit Professional Studies
The course provides an introduction to the nonprofit or third sector in the US with an emphasis on the historical and philosophical foundations of youth and human service organizations. Topics covered include the roles of nonprofit organizations in meeting human service needs, philanthropic structure of nonprofit organizations, importance of a mission orientation for nonprofit organizations, and possible careers in nonprofit organizations. One credit hour.

NPLS 3300 Management of Nonprofit Agencies
Prerequisites: NPLS 1100, attendance at approved NPLS workshop, or permission of the instructor. This course is an overview of nonprofit management. Topics include board and committee development, fund-raising principles and practices, human resource development and supervision, general nonprofit management, nonprofit accounting and financial management, nonprofit marketing, program planning, and risk management. It also includes at least one group project and is required for Nonprofit Leadership Studies minors. Three credit hours.

NPLS 4310 Strategic Fund Development
This course prepares students for managing volunteers in nonprofit organizations in the 21st century. It covers reasons for volunteering; strategies for fostering volunteer/staff relationships; the components of a volunteer program; processes for planning, developing, and implementing a volunteer program; and techniques for the recruitment, orientation, training, motivation, supervision, evaluation, recognition, and retention of volunteers. Three credit hours.

NPLS 4320 Volunteer Management
This course is an introduction to the organizational components, concepts, and methods of effective strategic fund development for 501(c)(3) nonprofit organizations. This includes developing the ability to evaluate elements of fundraising communications (such as internal and external cases for support), annual giving efforts, special event viability, stewardship, and an organization’s overall fundraising plan. Three credit hours.

NPLS 4301, 4302 Internship
Prerequisites: NPLS minor, senior standing, 2.0 grade point average, and permission of the instructor. The internship requires 150 hours of supervised field experience in a nonprofit organization (50 hours for each hour of credit). It is designed to allow students to further develop their selected certification competencies and may be repeated for up to six hours of credit. Three credit hours.

NPLS 4180, 4280, 4380 Independent Study
Prerequisite: consent of NPLS director. Advanced assignments in selected areas. Three credit hours.

NPLS 4390 Special Topics
Selected topics in nonprofit professional studies. Three credit hours.

NPLS 4414 Leadership and Service Practicum
Prerequisite: consent of instructor. Students gain practical leadership and service experience in association with the Nonprofit Leadership Student Association. One credit hour.
Minor in Theatre Arts
The minor program is designed to provide a broad-based offering of courses in theory, performance, and stage production for interested students. The theatre arts minor requires 19 hours including THEA 1201, 2352, 2360, 9 upper level hours in THEA of the students choice, plus a total of two credit hours of stage production experience. The stage production courses should be taken at the rate of one credit hour per semester from THEA 3160, 3161, 4161 or 4162.

Bachelor of Arts in Theatre Arts

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (62 hours)
THEA 1201 Theatre/Dance: A First Experience
THEA 2352 Script Analysis
THEA 2360 Acting I

*(Students desiring to major in Theatre Arts are required to complete THEA 1201, THEA 2352, & THEA 2360. Students must attain a cumulative GPA of 2.6 in the three entrance courses to remain a major in Theatre Arts. Students may declare the major at any time before completing the three entrance classes
THEA 1310 Introduction to Theatrical Design
THEA 2310 Costume Techniques
THEA 2320 Stagecraft & Lighting Technology
THEA 2359 IT for Theatre and Dance

THEA 3350 Voice & Movement
THEA 3360 Stage Management
THEA 3362 Directing I
THEA 4350 History of Theatre I
THEA 4351 History of Theatre II
THEA 4352 Dramatic Criticism
THEA 4364 Contemporary Theatre
ENGL 4324 Shakespeare
or another 3000 or 4000 level course in ENGL
2 credit hours in DANC
Upper Level Elective in Theatre (3 hours)
Upper Level Open Electives (6 hours)

Stage Production Requirement (4 hours)
THEA 3160 Stage Production
THEA 3161 Stage Production
THEA 4161 Stage Production
THEA 4162 Stage Production

Senior Project (3 hours)
THEA 4362 Capstone
or THEA 4369 Performance Internship
or THEA 4370 Design/Technical Internship

Minor (None required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Major in Dance Performance

The BFA in Dance Performance is a skill based pre-professional program with an emphasis on teaching dance technique. While the program is “contemporary” in emphasis it offers a full slate of courses in ballet, jazz and tap as well studies in history, kinesiology, choreography, and pedagogy.

All majors in the BFA in Dance Performance must complete the Core Requirements (44 hours). The major itself requires 83 hours beyond the university core. Note: Technique placement/advancement by audition and/or faculty consent only. Higher level technique classes may be substituted for lower levels in the same technique; however, the total number of semesters required in each technique remains the same.

Majors must complete six semesters each of Ballet and Modern technique including two semesters in Level III of each discipline. Majors must complete an additional two semesters in Level IV of either Ballet or Modern. Dance majors are expected to enroll in two technique classes (Ballet, Modern or Jazz) every semester.

Minor in Dance Performance

All minors in Dance Performance must complete a total of 21 hours including DANC 2201, DANC 3301, DANC 2241, DANC 3341, DANC 3261, DANC 3270, DANC 3311 or 3313, and 4 additional hours chosen from any of the remaining courses offered in the dance curriculum. All participants in dance performance programs are expected to follow rules and regulations specified in the departmental handbook. Note: Technique placement/advancement by audition and/or faculty consent only. Higher level technique classes may be substituted for lower levels in the same technique; however, the total number of semesters required in each technique remains the same.

Bachelor of Fine Arts in Dance Performance

General: 127 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)

See page 25 for requirement details.

Second Language Proficiency (none required)

Major (83 hours)

THEA 1201 Theatre/Dance: A First Experience
THEA 2359 IT for Theatre and Dance
THEA 3380 Lighting Design
or THEA 3382 Costume Design
DANC 2201 Modern Dance I (2 semesters)
DANC 2241 Ballet I (2 semesters)
DANC 2261 Jazz Dance I
DANC 2271 Dance Improvisation
DANC 2281 Tap Dance I
DANC 3240 Music for Dance
DANC 3261 Jazz Dance II
DANC 3301 Modern Dance II (2 semesters)
DANC 3311 Dance History I
DANC 3313 Dance History II
DANC 3341 Ballet II (2 semesters)
DANC 3360 Dance Pedagogy
DANC 3371 Choreography I
DANC 4191 Dance Performance (3 semesters)
DANC 4301 Modern Dance III (2 semesters)
DANC 4302 Modern Dance IV (2 semesters)
or DANC 4342 Ballet IV (2 semesters)
DANC 4330 Dance Science and Kinesiology
DANC 4341 Ballet III (2 semesters)
DANC 4371 Choreography II
DANC 4372 Choreography III
DANC 4399 Senior Project

Minor (None required)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Courses in Theatre (THEA)

THEA 1201 Theatre/Dance

A First Experience This course is designed for individuals considering majoring in theatre or dance. It serves as an introduction to the discipline, the profession, career options, and theatre as a “way of knowing.” Moreover, the course is tied to the specific identity of the department at UALR, and the faculty at the time the course is offered. Two credit hours.

THEA 1310 Introduction to Theatrical Design

To introduce the student to the conceptualized aesthetic approaches utilized in the creation of the visual and aural world of theatre production. Through hands-on creative endeavor that utilizes critical thinking, students will investigate how costume and makeup, scenery and props, lighting, and sound amplify and underpin the collaborative vision of a play. Three credit hours.

THEA 2305 Introduction to Theatre & Dance

An exploration of the components of the creative process as related to the making of theatre and dance. The purpose of this study is to develop in students an understanding of the theatrical experience. Attendance at arts events is required. Three credit hours. (ACTS Course Number DRAM 1003)

THEA 2310 Costume Techniques

An exploration of craft skills used for costume construction including work with patterns, fabric, stitching and garment execution. Three credit hours.

THEA 2320 Stagecraft/ Lighting Technology

This course will present the fundamentals of lighting technology and Stagecraft, and the equipment and methods used in both areas as it applies to theatre making. Students taking this class will practice skill sets needed in theatrical construction; including the use of power tools. Three credit hours.

THEA 2352 Script Analysis

An exploration of in-depth analysis of a play’s storyline, characters, dialogue, images, metaphors and themes. Students will read, view and analyze play scripts, learning how essential information is conveyed, how story elements are communicated through visual means, how a dramatic arc is built with cause and effect, and what makes a character credible and complex. Three credit hours.

THEA 2359 IT for Theatre and Dance

An exploration of current forms of information technology such as video editing, graphic design, presentation platforms, web design, blogging, etc. as tools for creative design in choreography and directing, and as marketing tools for career promotion. Three credit hours.
THEA 2360 Acting I
A beginning level performance course. Class exercises and projects are structured to emphasize the basic theories of acting at the core of the contemporary American theatre. Three credit hours.

THEA 3160, 3161, 4161, 4162 Stage Production
Designed to provide a laboratory experience with supervised practice in order to introduce the various positions and skills associated with theatrical production. Special emphasis is placed on the communicative processes used in collaborative production. One Credit Hour.

THEA 3350 Voice and Movement
Prerequisite: THEA 2360 or consent of instructor. Focuses on building a process for correct, healthy voice usage in theatre performance in combination with movement training. Three credit hours.

THEA 3360 Stage Management
A systematic exploration of the stage manager’s role in theatrical production ranging from communicative collaboration to the management of time, materials, and personnel in relation to pre-production, rehearsal, and “calling” a show. Three credit hours.

THEA 3362 Directing I
Prerequisites: THEA 2352 & THEA 2360. This course explores the study of interpretive styles of play direction, rehearsal techniques, audience analysis, contemporary trends and the way a director thinks. Opportunity to test principles in assigned laboratory production. Three credit hours.

THEA 3380 Lighting Design
An exploratory class in the fundamentals of lighting design introducing students to design concepts for theatre and dance through the development of creative thinking and the specific language of the medium. Three credit hours.

THEA 3381 Scenic Design
This course explores the creative making and artistry of scenic design. The student will develop the ability to perform an extrinsic interpretation of a play and then by use of skill-based experimentation create a design that supports his/her specific concept for the environment the actors will live in on stage. Three credit hours.

THEA 3382 Costume Design
The students will combine acquired knowledge of design theory and practice, acquired skills of text analysis, and acquired skills of oral and written presentation to define, develop and demonstrate a creative process that utilizes costume as visual story-telling. Three credit hours.

THEA 4140, 4240, 4340 Special Topics in Theatre Arts
Special topics for the study of plays, playwrights, theatrical periods, styles, production methods, and other topics related to the general curriculum. The content and course subtitle change each time offered. Refer to the semester class schedule for a descriptive title of the content. Dual listed in the UALR Graduate Catalog at the 5000-level. One, two, or three credit hours.

THEA 4160, 4260, 4360 Independent Study
Prerequisite: Consent of Theatre faculty. Open only to qualified students who seek to do advanced research on a topic selected in consultation with an instructor. One, two, or three credit hours.

THEA 4350 History of Theatre I
Prerequisite: Junior or Senior standing. A chronological survey of theatre history from its origins through the Baroque period. Particular emphasis paid to major periods of theatrical achievement, studying conjectural and documented styles in acting, design and production methods. This course will look at the influences of painting, sculpture, architecture and music on theatre and dance during each of the following artistic periods: Greek and Roman, Medieval, Renaissance, and Baroque. Three credit hours.

THEA 4351 History of Theatre II
Prerequisite: Junior or Senior standing. A survey of Theatre practice from Romanticism through Postmodernism. Special attention given to innovative aspects, such as surrealism and expressionism, epic theatre, the absurd movement, multi-media presentations, and environmental theatre. Influences from painting, sculpture, architecture and music will also be examined. Three credit hours.

THEA 4352 Dramatic Criticism
An introduction to critical and aesthetic theory as applied to dramatic literature and theatrical production. Emphasis on the exploration of evolving theories in the last century including semiotics, phenomenology, post-structuralism, post colonial and post modern theory, feminist, gender and performance studies. Three credit hours.

THEA 4361 Directing II
Prerequisites: THEA 2352, THEA 2360, & THEA 3362. An advanced course dealing with the theory of directing and the development of skills introduced in the Directing 1 course. Students will be given the opportunity to test principles in an assigned laboratory production. Three credit hours.

THEA 4362 Capstone
Prerequisites: Senior major in good standing; Faculty approval of the project proposal. This course is designed to provide students with an opportunity to integrate core and major concentration courses into an in-depth project that focuses on academic and/or creative skills. The result of the work will support a pursuit of continued education and or a professional career. The project may take the form of a creative project (performance, design, production) or a research project based on a hypothesis that can be explored by a literary survey and/or laboratory application. Three credit hours.

THEA 4364 Contemporary Theatre
This course will examine contemporary plays and musicals by employing the examination of the script, choice of costumes, scene design, choreography, music and special effects, acting and directing. Students will critique at least one contemporary theatre production from the UALR season, associated regional and local theatres. Students will work in teams to create their own contemporary theatre events. Three credit hours.

THEA 4369 Performance Internship
Prerequisites: Theatre major and consent of faculty. This course is designed to provide an internship with a professional theatre company focused on an aspect of performance (acting, directing, choreography, stage management, dramaturgy). The student will spend the majority of time on site working with and according to the company's schedule in fulfillment of production assignments determined by the management in consultation with the department coordinator. Three credit hours.

THEA 4370 Design/Technical Internship
Prerequisites: Theatre major and consent of faculty. This course is designed to provide an internship with a professional theatre company focused on an aspect of design and technical theatre (scenic design, lighting design, costume design, properties, sound design, & technical direction). The student will spend the majority of time on site working with and according to the company's schedule in fulfillment of production assignments determined by the management in consultation with the department coordinator. Three credit hours.
Courses in Dance

DANC 2201 Modern Dance I
A course in the basic movement techniques of contemporary dance, with emphasis on breath, alignment, coordination, and endurance. This course is repeatable for credit. Two credit hours.

DANC 2241 Ballet I
The study of basic classical ballet technique and terminology. This study will place emphasis on barre and center work to gain alignment, strength, flexibility and coordination. This course is repeatable for credit. Two credit hours.

DANC 2261 Jazz Dance I
Basic style, technique, and rhythmic structures of jazz dance. This course is repeatable for credit. Two credit hours.

DANC 2271 Dance Improvisation
Guided exploration in the process of spontaneous movement discovery through solo and group movement experiences, leading to an expanded awareness of the individual’s infinite movement resources for performance and choreography. Repeatable for credit. Two credit hours.

DANC 2281 Tap Dance I
Basic tap dance techniques, including basic listening, rhythmic and coordination skills. This course is repeatable for credit. Two credit hours.

DANC 3240 Music for Dance
Prerequisite: Permission of instructor. Development of musical skills for dance. Study of musical elements related to dance; dance accompaniment techniques; music discovery and selection; recording/mixing techniques; and hands-on experience with percussion and other instruments. Repeatable for credit. Two credit hours.

DANC 3261 Jazz Dance II
Prerequisite: Permission of instructor. Development of technical skills in jazz dance, including increased complexity of movement capabilities, with an emphasis on stylistic flexibility and performance qualities. This course is repeatable for credit. Two credit hours.

DANC 3270 Body Conditioning
A course in body conditioning, designed to give the dancer additional physical training that will complement regular dance technique courses. Specific method of body conditioning may vary by semester, and could include Pilates®, Yoga, Gyrotonic®, or other methods of body conditioning. Repeatable for credit. Two credit hours.

DANC 3281 Tap Dance II
Prerequisite: Permission of instructor. Development of technical and performance skills in tap dance, including more advanced listening, rhythmic and coordination skills. Additional emphasis on audition strategies. Repeatable for credit. Two credit hours.

DANC 3301 Modern Dance II
Prerequisite: Permission of instructor. Development of technical skills in contemporary dance, including rhythmic perception and spatial awareness, with increased emphasis on musicality and performance qualities. Repeatable for credit. Three credit hours.

DANC 3311 Dance History I
Study of the history of dance from primitive culture through the early 1900s. The primary focus is the development of dance as an art form in Western cultures, with specific emphasis on the origins and evolution of ballet. Three credit hours.

DANC 3313 Dance History II
Study of the history of dance in the 20th and 21st Centuries. The primary focus is the development of dance as an art form in Western cultures, with specific emphasis on contemporary dance and the evolution and emergence of new dance forms. Three credit hours.

DANC 3320 Labanotation
System for recording movement. An aid in clarifying understanding of movement both as performer and as choreographer. Three credit hours.

DANC 3341 Ballet II
Prerequisite: Permission of instructor. Intermediate ballet technique course. Development of technical skills in ballet, including safe and efficient alignment and expanded movement vocabulary, with increased emphasis on musicality and performance qualities. Repeatable for credit. Three credit hours.

DANC 3360 Dance Pedagogy
Prerequisite: permission of instructor. An overview of the general theories and practices of teaching dance; study of various methodologies used to teach dance techniques and creative movement. Opportunities to develop and implement lesson plans for students in workshop settings. Development of comprehensive syllabi for dance in private studios and public schools. Three credit hours.

DANC 3371 Choreography I
Prerequisite: DANC 2271 and permission of instructor. Corequisite: must be enrolled in one of the following courses: DANC 2201, DANC 3301, DANC 4301, DANC 2241, DANC 3341, or DANC 4341. Introduction to the basic elements of dance composition. Introduction to various methods of creating and manipulating original movement. Emphasis will be on short solo and group studies that explore space, time, energy, rhythm, shape, and dynamics. Three credit hours.

DANC 4100, 4200, 4300 Independent Study
Prerequisite: consent of dance faculty. An opportunity for advanced students to conduct an in-depth study in a specific area of interest or a special problem. One, two or three credit hours.

DANC 4140, 4240, 4340 Special Topics in Dance
Prerequisite: Permission of instructor. Special topics for the study of an area not offered in the regular dance curriculum. The content and course subtitle change each time offered. Refer to the semester class schedule for a descriptive title of the content. Repeatable for credit. One or three credit hours. Dual listed in the UALR Graduate Catalog at the 5000-level. One, two, or three credit hours.

DANC 4191, Dance Performance
Prerequisite: Permission of instructor. Study of selection of works, areas of appropriate staging, musical selections, technical aspects, audition, rehearsal, and all aspects of performance of dance. Repeatable for credit. One credit hour.

DANC 4261 Jazz Dance III
Prerequisite: Permission of instructor. Further development of skill, style, and understanding of the jazz form of dance. Repeatable for credit. Two credit hours.

DANC 4301 Modern Dance III
Prerequisite: Permission of instructor. Further development of kinesthetic, expressive, and aesthetic principles in contemporary dance at an advanced level. Increased complexity of movement capabilities, rhythmic structure, and spatial designs. Exploration of body/mind connection. Additional emphasis on aesthetic and expressive qualities for performance. Repeatable for credit. Three credit hours.

DANC 4302 Modern Dance IV
Prerequisite: Permission of instructor. Refinement of contemporary dance technique and performance skills at the advanced/pre-professional level. Repeatable for credit. Three credit hours.
DANC 4330 Dance Science and Kinesiology
Prerequisites: ANTH 1415 or BIOL 1401. Permission of instructor required. Study of the science of human movement as it applies to dance technique and performance. Students will gain a working knowledge of skeletal and muscular anatomy, and the ability to analyze movement for increased efficiency and effectiveness in training and performance. This course also includes an introduction to somatics and conditioning principles; and an overview of basic diet, health care, and injury prevention for dancers. Three credit hours.

DANC 4341 Ballet III
Prerequisite: Permission of instructor. Further development of kinesthetic, expressive, and aesthetic principles of ballet at an advanced level. Exploration of body/mind connection. Additional emphasis on self-expression within the ballet aesthetic. Repeatable for credit. Three credit hours.

DANC 4342 Ballet IV
Prerequisite: Permission of instructor. Refinement of ballet technique and performance skills at an advanced / pre-professional level. Repeatable for credit. Three credit hours.

DANC 4354 Dance Criticism and Concepts
This course examines dance forms, personalities, trends, and criteria for critical and appreciative viewing of the dance. Three credit hours.

DANC 4371 Choreography II
Prerequisite: DANC 3371. Corequisite: must be enrolled in one of the following courses: DANC 2201, DANC 3301, DANC 4301, DANC 4302, DANC 2241, DANC 3341, DANC 4341 or DANC 4342. Further exploration of methods to create and manipulate movement material. Solo and group studies of increased complexity, exploring spatial design, group forms, musical structures, and texture, with attention to overall compositional structure. Three credit hours.

DANC 4372 Choreography III
Prerequisite: DANC 4371. Corequisite: must be enrolled in one of the following courses: DANC 2201, DANC 3301, DANC 4301, DANC 4302, DANC 2241, DANC 3341, DANC 4341 or DANC 4342. Advanced course in dance composition, encompassing various methods of colliding, juxtaposing, and interweaving a wide range of original material to create cohesive, powerful works with solid compositional structure. Creation of complete works, culminating in a student-choreographed concert. Three credit hours.

DANC 4399 Senior Dance Project
Prerequisite: Senior standing and permission of dance faculty. Public presentation of choreography and performance, accompanied by written documentation of the project and a complete digital portfolio. The project is designed to demonstrate the student’s mastery of the skills developed during their course of study in Dance at UALR. Specific requirements and expectations for the project will be determined by the dance faculty, based on the nature of the proposed project. Required of all B.F.A. dance majors. Three credit hours.
The vision of the College of Business (COB) is to be a catalyst to advance education and economic development in the State of Arkansas. The COB has the distinction of being one of a handful of business schools across the country with two economic development outreach units housed within the college. The Institute of Economic Advancement (IEA) and the Arkansas Small Business and Technology Development Center (ASBTDC) play important roles in advancing economic, entrepreneurial, and other business-critical services across the state.

The mission of the College of Business is to prepare students to succeed as business professionals in a global economy and to contribute to the growth and viability of the region we serve. The mission is supported by:

- An application-oriented, high quality curriculum;
- Applied and pedagogical research; and
- A range of outreach services to the external community.

Students may pursue programs of study in several fields of specialty within business. The curricula provide a foundation for entry into management, professional practice, and graduate study.

General Information

The College is made up of five departments: Accounting, Economics and Finance, Management, Business Information Systems, and Marketing and Advertising. All majors are awarded the Bachelor of Business Administration degree. Requirements for degree programs are listed in the departmental sections of this catalog.

Students in the College select a major from one of the programs. A separate minor is not required. The business courses in the pre-business block and the professional business core serve as the minor for purposes of graduation grade point requirements. All departments in the College offer minors for students whose major field is in another college. Minor requirements are listed in the departmental sections of this catalog.

All students in the College must complete the University core curriculum requirements. In addition, business students complete the pre-business block of courses and the professional business core courses. A group of restricted and/or free electives, also required, varies by major. See the departmental sections for course requirements for each major.

At the graduate level, the College offers the Master of Business Administration, Master of Accountancy, and the Master of Science in Management Information Systems. See the UALR Graduate Catalog for information about these programs.

The programs of the COB are accredited by AACSB International-The Association to Advance Collegiate Schools of Business.

COB Admission Requirements

To be accepted into any program in the COB, the student must have completed MATH 1302 College Algebra and RHET 1312 Composition II, with a grades of C or greater, and have a minimum of 2.25 overall GPA (at UALR or transferring school) or 2.25 overall GPA on the most recently completed 15 hours at UALR. The GPA on the most recent 15 hours will be calculated on all hours attempted during the semester(s) in which the 15-hour requirement is met.

COB Upper-Level Credit Policies

Credit for an upper-level business course is not granted if students complete such courses before accumulating 54 semester credit hours. Credit is not granted toward a degree for any business course taken without the prerequisites stated in this catalog. Students may be administratively withdrawn from courses for which they are enrolled without the prerequisites.

Transfer of Credits

In general, credits earned with a grade of C or greater at other appropriately accredited institutions may be transferred for credit toward majors and minors offered by the College, unless otherwise noted within departmental sections.

Credits for upper-level business courses completed at schools not accredited by AACSB International are withheld pending review and validation by the department offering the course(s).
Credits earned at community colleges in business courses offered by UALR at the upper-level are not transferable toward a business degree. Students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree.

Transfer students must make an appointment with the Advising Center in the College’s Center for Student and Career Services prior to their first registration.

Concurrent and Transient Enrollment

The general policy is that students seeking UALR business degrees are expected to meet COB degree requirements with courses taken at UALR. Under exceptional circumstances a student may be permitted to take a course at another institution. Written permission to take a course at another institution must be obtained in advance from the major department chairperson and the College dean. Appropriate request forms may be obtained from the Office of Records and Registration.

Student Advisement and Information

The College of Business Center for Student and Career Services is an essential resource for all undergraduates in the College of Business. Within the Center, the College offers a comprehensive program of student advisement through its Advising Center, providing information on all College of Business majors’ degree requirements, help with transfer course evaluations, admissions, and all academic advising from declaring a major to graduation. All students must meet with an advisor prior to registration.

The Advising Center seeks to provide academic advising to all College of Business undergraduates with the goal of promoting student learning and development. By combining theory with practice, the center helps students develop a balanced portfolio of academic, career readiness and leadership skills to place them on the path to professional success. The Center’s staff does this by focusing on strong academic advising, joining with Career Services to develop industry and career knowledge, as well as personal development and image enhancement.

The Center is located in the Donald W. Reynolds Center for Business and Economic Development Suite 109C.

Preparation for Secondary Education with Business Emphasis

Students preparing for careers in secondary education with an emphasis in business education should complete one of the majors offered by the COB before entering the master of education (M.Ed.) in secondary education program with an emphasis in business education. Business courses required for licensure are offered by the COB. Students should consult the Department of Teacher Education in the College of Education regarding licensure requirements.

Business Studies Options for Non-business Majors

The College of Business offers options in business studies for students with majors in other colleges. These are:

- Students pursuing the Bachelor of Arts in liberal arts in the College of Arts, Humanities, and Social Sciences may choose a minor field concentration in business. Students interested in this option should contact the Department of Philosophy and Interdisciplinary Studies at (501) 569-3312.
- Academic minors are offered in each of the departments of the COB. Consult the departmental entries.

Course in Business Administration (BSAD)

**BSAD 1100 Introduction to Business**

No prerequisites. NOTE: BSAD 1100 satisfies the university first-year experience requirement. The course provides an overview of business as a profession, including an introduction to frameworks for ethical decision making and critical thinking. Through in-class discussion and outside assignments, students are introduced to the essential ideas of markets and the economic environment of business, management in organizations, leadership, financial management, accounting, production, and marketing, as well as the global dimensions of business and their social responsibilities. The overarching goal of the course is to introduce the student to the various dimensions of business and to help them to identify areas of study that are of particular personal interest. One hour lecture, one credit.
The mission of the Department of Accounting is to provide quality educational experiences that enable students to enter and advance within the accounting profession. In pursuit of this mission, the faculty is committed to providing effective teaching, relevant research, and academic, professional, and community service.

**Educational Objectives**

Graduates of our accounting programs should possess:

- Professional and technical knowledge,
- Effective communication skills,
- Analytical thinking abilities,
- Knowledge of professional and ethical standards, and
- Professional aspirations.

**General Information**

**Requirements to sit for the CPA Exam**

In the State of Arkansas, a CPA candidate must meet certain accounting and business education requirements. Students who earn an undergraduate degree that includes at least 30 undergraduate semester hours or 20 graduate hours in business, other than accounting, and at least 30 undergraduate semester hours or 20 graduate semester hours in accounting above the principles level will be deemed to have met the education requirement for the CPA examination. Candidates who successfully complete the CPA examination must also complete 150 semester hours in order to be licensed.

Further details on UALR course offerings and their application to CPA exam requirements can be found at the department’s website. Specific and official information about the requirements to sit for the CPA Exam in Arkansas is available from the Arkansas State Board of Public Accountancy (http://www.arkansas.gov/asbpa/).

**Minor in Accounting**

A minor in accounting requires ACCT 2310, 2330, 3311, 3312, and two accounting electives.

**Prerequisites**

Students enrolling in any accounting course for which the designated prerequisite work has not been completed previously may be administratively dropped from the course.

**Attempt Limit for Undergraduate Accounting**

- **Policy:** Students are limited to a maximum of three attempts in each upper-level undergraduate accounting course.
- **Effective Date:** This policy will be effective starting in fall semester 2009. Attempts prior to this effective date will not be counted in the application of this policy.
- **Right of Appeal:** Students with extenuating circumstances may appeal the application of this policy to the department chair. If a waiver of the policy is granted for a particular course, the student must enroll in that class within 12 months of the date that the waiver was granted (or in the next term the course is offered if the course is not offered within the next 12 months) and successfully complete the course in that term.
- **Definitions:** An “attempt” is defined as either a full-term enrollment with a letter grade or Incomplete being posted or a partial-term enrollment that lasts beyond the drop deadline but ends with a withdrawal and a W being posted to the transcript. A “successful completion” is defined as a grade of C or greater in the course.

If a student drops, withdraws, or requests an incomplete this will not be considered a successful completion.
Bachelor of Business Administration in Accounting

General: (124 total minimum hours, including 45 hours upper-level courses (3000-4000 level) and 30 hours in residence; students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree)

First-Year Colloquium (0-1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details.) BSAD 1100 recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (72-75 hours)

Pre-business Courses (24 hours)
MATH 1342 Business Calculus
ACCT 2310 Principles of Accounting I
ACCT 2330 Principles of Accounting II
ECON 2310 Business Statistics I
ECON 2322 Principles of Microeconomics
ECON 2323 Principles of Macroeconomics
MGMT 1310 Fundamentals of Information Technology
MKTG 2380 Legal Environment of Business

Professional Business Studies Foundation (24 hours)
ECON 3355 Quantitative Business Analysis
FINC 3310 Business Finance
MGMT 3300 Organizational Behavior and Management
MGMT 3304 Production/Operations Management
MGMT 3305 Management Information Systems
MGMT 3380 Business Communication
MGMT 4380 Business Strategy and Policy
MKTG 3350 Principles of Marketing

Accounting Course Requirements (30 hours)
Nine courses (27 hours) must be the following:
ACCT 3311 Intermediate Financial Accounting I
ACCT 3312 Intermediate Financial Accounting II
ACCT 3321 Federal Taxation
ACCT 3330 Intermediate Cost and Managerial Accounting I
ACCT 3341 Accounting Information Systems
ACCT 3361 Accounting for Governments, Not-for-profits, and Other Financial Issues
ACCT 4311 Accounting Issues
ACCT 4314 Advanced Financial Accounting
ACCT 4351 Auditing Theory and Practice I

One course (3 hours) chosen from any ACCT 43XX course

Minor (none required; pre-business and professional business studies courses fill all hours)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Courses in Accounting (ACCT)

ACCT 2310 Principles of Accounting I
Prerequisite: MGMT 1310 or CPSC 1370 or equivalent, and MATH 1302. Introduction to the field of accounting, fundamentals of financial accounting, recording, summarizing, and reporting cycle. Principles of asset valuation and income measurement; accounting systems and internal controls. Three credit hours. (ACTS Course Number ACCT 2003)

ACCT 2330 Principles of Accounting II
Prerequisite: ACCT 2310; MATH 1302; and MGMT 1310 or CPSC 1370 or equivalent. Note: A grade of C or higher is required in ACCT 2301 and ACCT 2330 to register in any higher level Accounting course. Continuation of ACCT 2310. Reporting for external investors. Management accounting and decision making. Three credit hours. (ACTS Course Number ACCT 2013)

ACCT 3311 Intermediate Financial Accounting I
Prerequisites: ACCT 2310 and ACCT 2330, each with a grade of C or greater; MATH 1302; and MGMT 1310 or CPSC 1370 or equivalent. Conceptual and historical framework underlying contemporary accounting and financial reporting; form and content of financial statements; revenue recognition; present value mathematics in accounting; measuring and reporting for cash and receivables; inventories; property, plant, and equipment. Three credit hours.

ACCT 3312 Intermediate Financial Accounting II
Prerequisites: ACCT 2310, ACCT 2330, and ACCT 3311, each with a grade of C or greater. Continuation of financial accounting. Measuring and reporting, current liabilities and contingencies, long-term liabilities, stockholders equity, income taxes, pensions, leases, cash flows, and special revenue recognition situations. Three credit hours.

ACCT 3321 Federal Taxation I
Prerequisite: ACCT 2310 and ACCT 2330 with C or greater or consent of the instructor. Introduction to federal income taxation, with emphasis on personal business and investment income and deductions, property transactions, and other topics related to taxation of individuals. Three credit hours.

ACCT 3330 Intermediate Cost and Managerial Accounting I
Prerequisites: ACCT 2310, ACCT 2330, and MGMT 3305, each with a grade of C or greater; MATH 1302; MGMT 1310 or CPSC 1370. Conceptual framework for managerial accounting, measurement and reporting of cost information, including historical and standard cost systems, cost behavior analysis, budgeting, variance analysis, responsibility accounting, performance measurement, and management control systems. Three credit hours.

ACCT 3341 Accounting Information Systems
Prerequisite: ACCT 2310, ACCT 2330, and ACCT 3311, and ACCT 3330, each with a grade of C or greater. Review of the evolution of accounting systems from manual systems to advanced automated systems, with emphasis on processing requirements and the EDP tools used in the automation of information systems; study of the internal control needs of accounting systems, both manual and EDP; microcomputer-based projects. Three credit hours.

ACCT 3361 Accounting for Governments, Not-for-Profits, and Other Financial Issues
Prerequisite: ACCT 3311 with C or greater. Fund accounting for governmental and not-for-profit entities. Financial and budgetary control, the budgetary process in government, special accounting, and reporting problems of the public and not-for-profit sector. Three credit hours.
ACCT 3391 Cooperative Education in Accounting
Prerequisites: ACCT 2310, ACCT 2330, and ACCT 3311, each with a grade of C or greater, but concurrent enrollment in ACCT 3311 permitted; major in Accounting; junior standing; GPA of 3.0 or higher in all work completed; consent of Department Chair prior to registration. Provides experience in an organizational setting designed to integrate accounting theory and practice. A written project, designed in consultation with the faculty member, and a minimum of 200 hours working for a participating employer during a semester are required. The exact activities and responsibilities related to the work experience must be specified in written agreements between the student, faculty member, employer, and the Office of Cooperative Education. Course is offered on a credit/no credit basis only, with credit being equivalent to C or greater performance. Three credit hours.

ACCT 4199, 4299, 4399 Independent Study
Prerequisites: Senior standing, consent of instructor. Independent investigation under faculty supervision of topics not offered in regular courses. Two or three credit hours.

ACCT 4311 Accounting Issues
Prerequisites: ACCT 2310, ACCT 2330, ACCT 3311, ACCT 3312, ACCT 3330, ACCT 3341, ACCT 3361, ACCT 4314, and ACCT 4351, each with a grade of C or greater. However, concurrent enrollment in ACCT 3321, ACCT 3361, ACCT 4314, and ACCT 4351 permitted. This is the capstone course for the undergraduate accounting major. Topics to be covered include career planning, professional certifications, ethical standards for accountants and emerging issues for the accounting profession. Accounting program assessment is done in this course. Three credit hours.

ACCT 4314 Advanced Financial Accounting
Prerequisite: ACCT 3312 with C or greater. Accounting for temporary and long-term investments, business combinations, consolidated financial reporting, and international operations. Three credit hours.

ACCT 4316 International Accounting
Prerequisite: ACCT 2310, ACCT 2330, ACCT 3311, ACCT 3312, and ACCT 4314, each with a grade of C or greater. This course examines international financial reporting developments, procedures, and standards (IFRS) with an emphasis on the convergence of US GAAP and International Financial Reporting Standards. Attention is also given to the financial reporting requirements of multinational enterprises operating in a global environment. Three credit hours.

ACCT 4322 Federal Taxation II
Prerequisite: ACCT 3321 with C or greater. Federal income tax topics related to partnerships and partners, corporations and shareholders, trusts and estates, research methods in tax practice, survey of the unified estate and gift tax law. Dual-listed in the UALR Graduate Catalog as ACCT 5322. Three credit hours.

ACCT 4323 Research in Federal Taxation
Prerequisite: ACCT 3321 with C or greater. Methods and tools of tax research as applied to both closed fact and controllable fact cases. Methods for locating and assessing relevant authority on specific tax questions is emphasized. Three credit hours.

ACCT 4351 Auditing Theory and Practice I
Prerequisites: ACCT 2310, ACCT 2330, ACCT 3311, ACCT 3312, ACCT 3330, and ACCT 3341, each with C or greater. Nature, history, and social role of auditing. Fundamentals of contemporary auditing theory and practice with emphasis on collection and evaluation of audit evidence and the audit report. Introduction to operations auditing, statistical sampling, and auditing EDP systems. Three credit hours.

ACCT 4366 Federal Corporate Taxation
Prerequisite: ACCT 2310, ACCT 2330, ACCT 3321, and ACCT 4323, each with a grade of C or greater. However, concurrent enrollment in ACCT 4323 is permitted. Study of federal income taxation provisions affecting the formation, operation, liquidation, acquisition, and reorganization of Sub-chapter C corporations. There will be an emphasis on research and tax planning. Three credit hours.

ACCT 4381 Legal, Ethical, and Regulatory Environment for Accountants
Prerequisite: MKTG 2380 – Legal Environment of Business (or equivalent) with C or greater. A comprehensive overview of business law and ethics topics, such as the Uniform Commercial Code, accountant’s liability, government regulation of business, agency, contracts, debtor-creditor relationships, real property, insurance, and other topics covered in the CPA exam. Dual listed in the UALR Graduate Catalog as ACCT 5381. Three credit hours.

ACCT 4392 Internship
Prerequisites: at least 90 semester hours earned with a minimum overall grade point average of 3.00; B or higher grade in all upper-level accounting courses completed to include a minimum of twelve semester hours; consent of instructor and department chairperson. Practical experience in an organizational setting designed to integrate accounting theory and applications. A written report is required. Course is offered on a CR/NC basis only, with credit being equivalent to C or greater performance. Three credit hours.
Chairperson: Robert Mitchell, Professor
Professor: Wigand, Rolf
Associate Professor: Bailey, Janet L., Kim, Sung-kwan
Assistant Professors: Parks, Rachida Thambusamy, Ravi Woolridge, Richard

General Information
All majors in the department are required to achieve a grade of C or greater in all courses required in their major; all majors must also complete all required minor courses with a 2.0 overall GPA; all non-business majors completing a minor within the department are required to achieve a grade of C or greater in all courses transferred to or taken at UALR in order to fulfill course requirements in the minor block of courses.

Management Information Systems
The Management Information Systems (MIS) major develops competencies in analysis, design, development, and management of business information systems. The program emphasizes the development of computer applications in a business environment and effective use of computer resources to meet business objectives. Technical competencies coupled with a knowledge of all areas of business developed in the major (accounting, economics, finance, management, and marketing) prepares graduates for career advancement in today’s rapidly changing business environment.

MIS Educational Objectives
Students completing the MIS degree should be able to:

- Display critical thinking skills
- Apply technical skills and knowledge of technologies to business issues.
- Demonstrate competence in applying functional business knowledge.
- Solve real world and/or simulated business problems.
- Display a global perspective and an understanding of cultural issues.
- Have an ethical perspective and behave ethically.
- Exhibit effective oral and written communication skills.

Bachelor of Business Administration in Management Information Systems

General: (120 total minimum hours, including 45 hours upper-level courses (3000-4000 level) and 30 hours in residence; students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree)

First-Year Colloquium (0-1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details.) BSAD 1100 recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (75 hours)

Pre-business Courses (24 hours)
MATH 1342 Business Calculus
ACCT 2310 Principles of Accounting I
ACCT 2330 Principles of Accounting II
ECON 2310 Business Statistics I
ECON 2322 Principles of Microeconomics
ECON 2323 Principles of Macroeconomics
MGMT 1310 Fundamentals of Information Technology
MKTG 2380 Legal Environment of Business

Professional Business Studies Foundation (24 hours)
ECON 3355 Quantitative Business Analysis
FINC 3310 Business Finance
MGMT 3300 Organizational Behavior and Management
MGMT 3304 Production/Operations Management
MGMT 3305 Management Information Systems
MGMT 3380 Business Communication
MGMT 4380 Business Strategy and Policy
MKTG 3350 Principles of Marketing

Emphasis Area (27 hours)

BINS Required Courses (24 hours)
MGMT 3307 Systems Development Methodologies
MGMT 3310 Business Applications in COBOL
MGMT 3352 Advanced Personal Computer Applications
MGMT 4310 Network Technologies
MGMT 4312 Object-Oriented Programming
MGMT 4331 Management of Information Resources
MGMT 4350 Business Database Management Systems
MGMT 4355 Information Systems Development Project

One course (3 hours) from the following
MGMT 4309 Seminar: Special Topics in CIS/MIS
MGMT 4311 Security Issues and Advanced Topics in Network Technologies
CPSC 2376 Programming II
CPSC 1375 Programming I and
CPSC 1175 Introduction to Computer Science Laboratory

Minor (none required; pre-business and professional business studies courses fill all hours)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Management Information Systems Minor
(21 hours)

MGMT 3305 Management Information Systems
MGMT 3352 Advanced Personal Computer Applications
MGMT 4331 Management of Information Resources

Four courses or (12 hours) from the following (with approval of the management department chair):
ACCT 2310 Principles of Accounting I
MGMT 3307 Systems Development Methodologies
MGMT 3310 Business Applications in COBOL
MGMT 4309 Seminar: Special Topics in CIS/MIS
MGMT 4310 Network Technologies
MGMT 4311 Security Issues and Advanced Topics in Network Technologies
MGMT 4312 Object-Oriented Programming
MGMT 4350 Business Database Management Systems
MGMT 4355 Information Systems Development Project

Courses in Business Information Systems Management (BINS)

MGMT 1310 Fundamentals of Information Technology
An introduction to computer information system concepts and the components and capabilities of a computer system. Emphasis on the development of spreadsheet and word processing competencies. Three credit hours.

MGMT 2320 Business Communication Skills
Basic principles of effective language usage in written business communication. Three credit hours. (ACTS Course Number BUS 2013)

MGMT 3305 Management Information Systems
Prerequisite: MGMT 1310 or equivalent. An introduction to the impact of computer-based information systems on the management of organizations with emphasis on the information systems as a tool for management of organizations. This course requires that students learn to use software and hardware to facilitate managerial decision making, planning, and control. Three credit hours.

MGMT 3307 Systems Development Methodologies
Methods, tools, and techniques of system development. The system development life cycle will be studied using traditional and non-traditional methods. Development tools will be explored as well as key development techniques for system analysis and design. Three credit hours.

MGMT 3310 Business Applications in COBOL
Prerequisites: MGMT 1310 or equivalent. A beginning business computer problem-solving and programming course using the COBOL language. Three credit hours.

MGMT 3352 Advanced Personal Computer Applications
Prerequisites: MGMT 1310 or CPSC 1370. Software applications integrating the use of spreadsheet, word processing, graphics, and e-mail software and front-end design tools. Emphasis on installation, customization, and documentation of personal computer systems. Three credit hours.

MGMT 3380 Business Communication
Prerequisites: RHET 1312 and SPCH 1300. Theories of communication applied to internal and external business communication, including composition of letters, memos, and reports. Emphasis on interpersonal communication theory and oral communication skills for business. Three credit hours.

MGMT 4310 Network Technologies
Prerequisite: Junior standing or consent of the instructor. A study of the role of telecommunications in information resource management, with emphasis on business applications in a network environment. Principles of network design and installation, system component selection, administration, security, and control. Dual-listed in the UALR Graduate Catalog as MGMT 5310. Three credit hours.

MGMT 4311 Security Issues and Advanced Topics in Network Technologies
Prerequisite: MGMT 4310 or consent of the instructor. Advanced study of the role of telecommunications and computer networks in information resource management, with emphasis on security in network environments. Develops technical and critical thinking skills in a hands-on environment. Three credit hours.

MGMT 4312 Object-Oriented Programming
Beginning object-oriented programming course. Focuses on business problem solving and solution development. Three credit hours.

MGMT 4331 Management of Information Resources
Prerequisite: MGMT 3305 or consent of the instructor. A study of a manager’s role and decisions regarding information systems strategy, the management of information, technology operations, and information systems projects within the organization. Three credit hours.

MGMT 4350 Business Database Management Systems
Addresses the concepts and principles underlying the design and application of relational database management systems. The course provides an in-depth study of the key concepts of relational database systems. Projects, which typically are implemented using current commercial database management systems software, are used to reinforce most of the concepts. Dual-listed in the UALR Graduate Catalog as MGMT 5350. Three credit hours.

MGMT 4355 Information Systems Development Project
Prerequisite: MGMT 3307, MGMT 4312, and MGMT 4350. Emphasis on development of an information system project using structured analysis methodology and tools developed in previous MIS courses. The class forms project teams; accepts developmental assignments; and follows the systems development life cycle process to design a new system. Students are required to produce a working system. Three credit hours.
The Economics and Finance Department in UALR’s College of Business offers both an Economics major and a Finance major, as well as minors in Economics, Finance, Personal Finance, and Real Estate.

The Economics major prepares students for careers in industry, financial services or government, and for graduate study in law, business, and economics. For more examples of career opportunities for economics majors, check out Economics for College Students.

Students majoring in Finance develop the strong analytical, problem-solving, and decision-making skills necessary for success in today’s global business environment. UALR’s Finance graduates are extremely successful on the Series 7 exam and on other professional exams necessary for a career in finance.

The Bottom Line: Average Starting Salary Offers to Inexperienced Bachelor’s Degree Recipients by Curriculum, Summer 2011.

<table>
<thead>
<tr>
<th>Baccalaureate Curriculum</th>
<th>Salary</th>
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<tbody>
<tr>
<td>Chemical Engineering</td>
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<tr>
<td>Electrical/Electronics Engineering</td>
<td>$60,900</td>
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<tr>
<td>Computer Science</td>
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<td>History</td>
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<td>$36,500</td>
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<td>Psychology</td>
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</tbody>
</table>

**Economics**

Theoretical and quantitative analysis are applied within the context of institutional and cultural constraints to solve economic problems in the private and public sectors.

The department offers a bachelor of business administration in economics and a minor in economics for students not majoring in the College of Business.

**Economics Educational Objectives**

Students completing the economics degree should accomplish the following educational objectives:

- Understand, explain, and identify how markets work with respect to the determination of prices, quantities, and allocation of resources.
- Collect economic data and be able to analyze and forecast economic activity.
- List various supply and demand shocks and identify how they affect economic activity in a complete, traditional macroeconomic model.
- Understand models of economic growth.
- Understand and be able to differentiate between market structures and explain their implications for pricing, output, and efficiency issues.
- Understand and explain the theory of the firm including, but not limited to, pricing, optimal input mix, and marginal analysis.

**Minor in Economics**

The minor in economics, available to students majoring outside the COB, provides a market-oriented complement for many major fields of study. Students pursuing the economics minor must take ECON 2322, 2323, 3315, 3330, and six additional hours of approved upper-level electives in economics for a total of 18 hours.
Bachelor of Business Administration in Economics

General: (120 total minimum hours, including 45 hours upper-level courses (3000-4000 level) and 30 hours in residence; students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree)

First-Year Colloquium (0-1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.
(See page 36 for details.) BSAD 1100 recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (75 hours)

Pre-business Courses (24 hours)
MATH 1342 Business Calculus
ACCT 2310 Principles of Accounting I
ACCT 2330 Principles of Accounting II
ECON 2310 Business Statistics I
ECON 2322 Principles of Microeconomics
ECON 2323 Principles of Macroeconomics
MGMT 1310 Fundamentals of Information Technology
MKTG 2380 Legal Environment of Business

Professional Business Studies Foundation (24 hours)
ECON 3355 Quantitative Business Analysis
FINC 3310 Business Finance
MGMT 3300 Organizational Behavior and Management
MGMT 3304 Production/Operations Management
MGMT 3305 Management Information Systems
MGMT 3380 Business Communication
MGMT 4380 Business Strategy and Policy
MKTG 3350 Principles of Marketing

Emphasis Area (21 hours)
Economics Required Courses (9 hours)
ECON 3315 Intermediate Microeconomic Analysis
ECON 3330 Intermediate Macroeconomic Theory
ECON 4350 Applied Econometrics

Economics Elective Courses (12 hours)
ECON 4320 International Economics
ECON 4324 Environmental Economics
ECON 4360 Independent Study in Economics
ECON 4397 Seminar in Economics
FINC 3340 Financial Markets and Institutions
FINC 3350 Investment Analysis
FINC 4360 Risk Management

Minor (none required; pre-business and professional business studies courses fill all hours)

Unrestricted General Electives (6 hours)
Remaining hours, if any, to reach the 120 minimum total hours, 45 upper-level hours courses (3000-4000 level), or 30 hours in residence.

Finance
The finance curriculum provides a theoretical framework of the environment in which financial institutions operate. Individual courses deal with financial institutions, the financial management of business firms, investments, and particular institutional areas of banking, real estate, and insurance. Emphasis is on the decision making, or analytical, aspects of the subject areas.

The department offers three degree options (emphases) in the finance area.

1. Emphasis I (General Finance) provides training in business finance, financial decision making within the firm, and the financial and banking systems.
2. Emphasis II (Real Estate) provides a broad background in real estate analysis, investment, and financial decision making.
3. Emphasis III (Financial Services and Risk management) provides training in the management of financial service firms such as banks, insurance firms, and wealth management firms.

Minors are offered in general finance and real estate.

To graduate, students majoring in finance must make a grade of C or greater in FINC 3310 as well as in all courses that constitute the major.

Finance Educational Objectives
Students completing the finance degree should be able to:

- Demonstrate a thorough understanding of time value of money concepts by solving representative problems. This includes calculating present values, future values, and rates of return.
- Identify and explain the role and functioning of financial markets. Students should be able to explain the determination of interest rates, the role of financial intermediaries, the impact of risk and the connections across international markets. Value financial assets. This involves being able to explain risk-return trade-offs, asset pricing models, market efficiency, and international valuation. The student should be exposed to modern portfolio theory and option pricing theory.
- Identify and explain the investment and financing decisions of the firm, and how these decisions affect value. Students should be exposed to estimating the cost of capital, should be able to identify factors affecting capital structure and financing alternatives (domestic and international), and be exposed to firm valuation.
- Be exposed to the ethical issues involved in finance. In particular, the student should be exposed to agency theory and its implications for financial managers. This includes exposure to fiduciary issues.

Real Estate and Financial Services

Educational Objectives
Students specializing in real estate, insurance, or financial planning should:

- Be exposed to the theoretical concepts and principles of each.
- Be able to apply the principles to real problems.
- Be exposed to the professional and institutional aspects of each.

Minor in General Finance

A minor in general finance for students majoring outside the College requires ACCT 2310 and 2330, ECON 2322 and 2323, and FINC 3310 and 3350. Students should be aware that ECON 2310 (or its equivalent) is a prerequisite for FINC 3310 and that MATH 1342 (or its equivalent) is a prerequisite for ECON 2310.

Minor in Real Estate

A minor in real estate for students majoring outside the COB requires ECON 2322 and 2323, FINC 3310, 3370, 4371, and 4372. Students should be aware that ECON 2310 (or its equivalent) is a prerequisite for FINC 3310 and that MATH 1342 (or its equivalent) is a prerequisite for ECON 2310.
Bachelor of Business Administration in Finance

General: (120 total minimum hours, including 45 hours upper-level courses (3000-4000 level) and 30 hours in residence; students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree)

First-Year Colloquium (0-1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details.) BSAD 1100 recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (72-75 hours)

Pre-business Courses (24 hours)
- MATH 1342 Business Calculus
- ACCT 2310 Principles of Accounting I
- ACCT 2330 Principles of Accounting II
- ECON 2310 Business Statistics I
- ECON 2322 Principles of Microeconomics
- ECON 2323 Principles of Macroeconomics
- MGMT 1310 Fundamentals of Information Technology
- MKTG 2380 Legal Environment of Business

Professional Business Studies Foundation (24 hours)
- ECON 3355 Quantitative Business Analysis
- FINC 3310 Business Finance
- MGMT 3300 Organizational Behavior and Management
- MGMT 3304 Production/Operations Management
- MGMT 3305 Management Information Systems
- MGMT 3380 Business Communication
- MGMT 4380 Business Strategy and Policy
- MKTG 3350 Principles of Marketing

Emphasis Area

General Finance Emphasis (24 hours)
- Four courses (12 hours) must be the following:
  - FINC 3340 Financial Markets and Institutions
  - FINC 3350 Investment Analysis
  - FINC 4330 International Finance
  - FINC 4362 Derivatives
  - FINC 4395 Advanced Financial Management

- Four courses (12 hours), two of which MUST be FINC courses, chosen from the following:
  - FINC 4320 Bank Financial Management
  - FINC 4330 International Finance (if not taken to satisfy requirements above)
  - FINC 4360 Risk Management
  - FINC 4362 Derivatives (if not taken to satisfy requirements above)
  - FINC 4363 Financing Entrepreneurial Ventures
  - FINC 4371 Real Estate Finance and Investment
  - FINC 4380 Portfolio Management
  - FINC 4383 Applied Equity Analysis
  - FINC 4396 Cooperative Education
  - FINC 4399 Independent Study

Real Estate Emphasis (24 hours)
- Five courses (15 hours) must be the following:
  - FINC 3350 Investment Analysis
  - FINC 3370 Real Estate

Financial Services and Risk Management (27 hours)

- Four courses (12 hours) must be the following:
  - FINC 3330 Principles of Insurance
  - FINC 4377 Independent Study in Real Estate

- Two courses (six hours) of upper level (3000 and 4000 level) electives

OR

- Five courses (15 hours) chosen from the following:
  - ACCT 3321 Federal Taxation
  - FINC 4320 Bank Financial Management
  - FINC 4341 Commercial Property and Liability Insurance
  - FINC 4362 Derivatives
  - FINC 4363 Financial Entrepreneurial Ventures
  - FINC 4364 Employee Benefits
  - FINC 4371 Real Estate Finance and Investment
  - FINC 4380 Portfolio Management
  - FINC 4383 Applied Equity Analysis
  - FINC 4396 Cooperative Education
  - FINC 4399 Independent Study

Minor (none required)

Unrestricted General Electives (0-3 hours)
Remaining hours, if any, to reach the 120 minimum total hours, 45 upper-level hours courses (3000-4000 level), or 30 hours in residence.

Courses in Economics (ECON)

ECON 2301 Survey of Economics
The wants of individuals and societies are unlimited, while the resources for satisfying these wants are limited. Consequently, choices have to be made. Economics is the science of choice. Survey of Economics introduces students to the ability to use theories or models to make sense out of the real world and devise policy solutions to economic problems. Both individual and firm choices (microeconomics) and society choices (macroeconomics) are examined. The role of markets in summarizing choices and allocating resources is introduced. ECON 2301 will not satisfy the University Core Curriculum requirements if ECON 2322 and ECON 2323 are taken for graduation credit. Three credit hours.

ECON 2310 Business Statistics I
Prerequisite: MATH 1342 with grade of C or greater. An introduction to statistical methods from an economic and business perspective, including descriptive statistics, index numbers, probability theory as applied to statistical analysis, and an introduction to hypothesis testing. Three credit hours. (ACTS Course Number BUSI 2103)

ECON 2312 Quantitative Methods
Prerequisites: MATH 1342 with grade of C or greater, and ECON 2310. An introduction to quantitative methods frequently used in business. Topics include regression analysis, decision analysis and expected values, Chi Square, sampling techniques, forecasting, linear programming, simulation, transportation problems, and queuing analysis. Students shall complete a term project. Three credit hours.

ECON 2322 Principles of Microeconomics
Prerequisite: MATH 1302. The theory of the individual firm in the economy, cost and price determination, income distribution, and welfare economics. Three credit hours. (ACTS Course Number ECON 2203)
ECON 2323 Principles of Macroeconomics
Prerequisite: MATH 1302 and ECON 2322. The monetary system, macroeconomic analysis of income, employment, price level, business fluctuations, and elements of international trade. Three credit hours. (ACTS Course Number ECON 2103)

ECON 3301 Survey of Economics
An overview of the science of economics. Basic economic laws and methods are presented followed by a survey of the two primary areas of economics: microeconomics and macroeconomics. Students will be introduced to the functioning of markets and the choice process individuals and societies are faced with while making economic decisions. Not for credit by business or economics majors. Three credit hours.

ECON 3310 Money and Banking
Prerequisite: ECON 2323. The nature and functions of money and the development of the Federal Reserve System, the role and activities of the Federal Reserve in the development of monetary policy. Three credit hours.

ECON 3315 Intermediate Microeconomic Analysis
Prerequisites: ECON 2310, 2322, 2323. Price and production theory. Consumer demand, the supply function, market pricing, and various degrees of competition. Three credit hours.

ECON 3320 Business Forecasting
Prerequisites: ECON 2312, 2322, 2323. Business fluctuations; seasonal, cyclical, trend, and secular components; measurement of fluctuations; and methods of predicting changes in business activity. Three credit hours.

ECON 3330 Intermediate Macroeconomic Theory
Prerequisites: ECON 2322, 2323. National income analysis and its implications for public policy; its historical development and present status, including recent business cycle development. Three credit hours.

ECON 3355 Quantitative Business Analysis
Prerequisite: MGMT 1310, ECON 2310, 70% score on qualifying exam. Students will use common business software in applications covering multiple regression and correlation, goodness of fit, chi square and tests of independence, decision analysis and expected values, analysis of variance, sampling techniques, forecasting (including how to decompose a time series into its components), and nonparametric tests. Three credit hours.

ECON 4305 Advanced Microeconomics
Prerequisite: ECON 3315 or equivalent. Theoretical microeconomics covering the theory of distribution, general equilibrium, welfare economics, and other advanced topics. Three credit hours.

ECON 4310 History of Economic Thought
Prerequisites: ECON 2322, 2323. The development of contemporary economic theory. A study of the development of economic concepts, methods of analysis, and philosophies and their relation to contemporary theory. Three credit hours.

ECON 4320 International Economics
Prerequisites: ECON 2322, 2323. The theory and mechanics of international trade; balance of payments problems, commercial policy, and international investments. Three credit hours.

ECON 4322 Resource Economics
Prerequisites: ECON 2322 and 2323 or equivalents. Applied microeconomics concentrating on natural resources as they are used to maximize society’s total utility. Both the theoretical and actual aspects of natural resources as inputs to the production process are explored. Three credit hours.

ECON 4324 Environmental Economics
Prerequisite: junior standing. Applied microeconomics covering various aspects of environmental economics. The problems of preventing future pollution and cleaning past pollution in an economically efficient manner are explored. Economic theory, actual practice, and legal aspects of pollution are explored in the context of the trade-offs that must be considered. Three credit hours.

ECON 4330 Public Finance
Prerequisites: ECON 2322, 2323. The economic functions of government, public goods theory. Public sector decision making, financing, and consequences; public sector growth and institutions. Three credit hours.

ECON 4340 Labor Economics
Prerequisites: ECON 2322, 2323. Economics of labor as a factor in the production process; legislative aspects of labor-management relations; measurement of human capital; effects of union growth; role of organized labor in the economy. Three credit hours.

ECON 4344 Introduction to Financial Economics
Prerequisites: ECON 2323 or equivalent. Survey of capital markets and security market efficiency and introduction to portfolio theory, capital asset pricing, and agency theory. Implications for corporate financial policy decisions and financial market regulatory policy. Three credit hours.

ECON 4347 Economics of Development
Prerequisites: ECON 2322 and 2323 or equivalents. The study of how countries change their productive arrangements and change real per-capita income over time. Various development strategies are discussed. Three credit hours.

ECON 4350 Applied Econometrics
Prerequisites: ECON 3355. This course will introduce students to the skills used in empirical research including, but not limited to, data collection, model specification, regression analysis, violations of regression assumptions and corrections, indicator variables, linear restrictions tests, and limited dependent variable models. The course will focus on the intuition and application of econometric methods and statistical software will be used extensively. Students will be required to complete an independent research project involving the application of regression analysis. Dual-listed in the UALR Graduate Catalog as ECON 5350. Three credit hours.

ECON 4360 Independent Study
Prerequisites: senior standing, consent of chairperson and instructor. Research and independent investigation in areas of economic analysis, economic policy, history of economic thought, and economic development. Three credit hours.

ECON 4396 Cooperative Education I
Prerequisites: senior standing, economics major, completion of at least 9 hours of upper-level economics courses with a grade of C or greater, cumulative GPA of 2.50, and consent of department chairperson prior to registration. Designated to complement and extend the classroom learning experience through the application of theories and concepts in a professional work environment. A written project, designed in consultation with the faculty member, and a minimum of 200 hours with a participating employer during the semester are required. The exact number of weekly work hours, activities, and responsibilities are dependent upon the nature of the work experience and must be specified in written agreements between the student, faculty member, and the Office of Cooperative Education. This course is accepted as elective credit in the economics major. Three credit hours.

ECON 4397 Seminar in Economics
Prerequisites: senior standing and consent of faculty teaching course. Advanced economic topics in modular format and usually team taught. Topics will come from both the microeconomic and macroeconomic areas and may vary according to need. Three credit hours.

ECON 4398 Teaching Internship
Prerequisite: consent of department chair and the supervising faculty. Working with individual instructors, upper-level majors assist students by holding study sessions twice a week for students enrolled in ECON 2310 or ECON 3355 and performing other tasks determined through consultation with the instructor. Unrestricted elective. Three credit hours.

ECON 4399 Personal Finance
Prerequisite: consent of department chair and the supervising faculty. Personal financial planning, including bank deposits, savings accounts, life insurance, property and casualty insurance, retirement accounts, investment in stocks and bonds, housing. May not be taken for credit by business majors. Three credit hours.

Courses in Finance (FINC)

FINC 2300 Personal Finance
Personal financial planning, including bank deposits, savings accounts, life insurance, property and casualty insurance, retirement accounts, investment in stocks and bonds, housing. May not be taken for credit by business majors. Three credit hours.
FINC 3310 Business Finance
Prerequisites: ECON 2310, ECON 2322, ECON 2323, ACCT 2310, ACCT 2330. (May be taken concurrently with ECON 2323 and ACCT 2330.) Business finance with emphasis on the modern corporation; methods of securing and managing assets; problems of bankruptcy, reorganizations; business combination. Three credit hours.

FINC 3330 Principles of Insurance
The phenomena of risk and risk bearing, including insurance and other methods of handling risks; introduction to the areas of property, marine, liability, disability, life insurance, and fidelity and surety bonding. Three credit hours.

FINC 3340 Financial Markets and Institutions
Prerequisite: FINC 3310 with a grade of C or greater (may be taken concurrently). Examination and analysis of financial markets, such as savings institutions, banks, insurance companies, mutual funds, pension funds, and others. Three credit hours.

FINC 3350 Investment Analysis
Prerequisite: FINC 3310 with a grade of C or greater. Alternative investment opportunities, analysis of the economy, its industries, and particular businesses to determine the most desirable use of funds in terms of the objectives of individual and institutional investment programs. Three credit hours.

FINC 3370 Real Estate
Introduction to the real estate business; relationship of real estate to the national and local economies; legal instruments, appraisals, property sales, and management. Three credit hours.

FINC 3420 Bank Financial Management
Prerequisites: FINC 3310 with a grade of C or greater, FINC 3340. Analysis and management of the asset and liability portfolio of depository financial institutions. Three credit hours.

FINC 3430 International Finance
Prerequisite: FINC 3310 with a grade of C or greater. Multinational corporate finance; practices and problems in international finance; balance of payments and exchange problems; recent developments and trends in international finance. Three credit hours.

FINC 3440 Life Insurance
Development of the human life value concept and financial consequences of economic death; types of insurers; types of life insurance and annuity contracts and their uses; premium and reserve calculations; introduction to programming for individuals, families, and institutions. Three credit hours.

FINC 3441 Commercial Property and Liability Insurance
Prerequisite: FINC 3310. Students will learn about commercial insurance coverage and how the business of insurance is conducted in practice. Topics covered include: underwriting, sales, marketing, claims adjustment, and pricing of insurance. Three credit hours.

FINC 3460 Risk Management
Prerequisite: FINC 3310 with a grade of C or higher. Introduction to the fundamentals of risk management. Scope and fundamentals of property and liability insurance; analysis of contracts, rating, underwriting, insurers, and loss adjustments and procedures. Three credit hours.

FINC 3462 Derivatives
Prerequisite: FINC 3310 with a grade of C or higher. The cash, futures, and options markets for commodities and financial instruments will be examined. An economic perspective will be used to analyze the development, functions, and mechanics of these markets. The goal is to integrate an understanding of these markets into specific economic situations in order to improve the decision-making process. Three credit hours.

FINC 3463 Financing Entrepreneurial Ventures
Prerequisites: FINC 3310 and MGMT 3300. Financing alternatives for new and growing ventures; debt financing from investment banks, commercial banks, and SBIC, as well as equity financing from angel investors, private placements, venture capitalists, and public stock markets. Students use firm valuation methods and calculate return to investors to create a capital plan for a growing enterprise. Three credit hours.

FINC 4364 Employee Benefits
Analysis of the nature of health and social insurance; causes, extent, and economic consequences of old-age dependency, unemployment, and disability; hospitalization and medical insurance, surgical benefits, major medical coverages, disability income contracts; review of Social Security and related social insurance programs. Three credit hours.

FINC 4365 Estate Planning
Importance of and techniques for risk identification and analysis as a basis for recognition of insurance requirements; application of coverages to business and personal needs. Three credit hours.

FINC 4366 Introduction to Actuarial Science
Prerequisite: FINC 4340. Introduction to the mathematics of insurance as the basis for rate making, reserve and cash value calculations, and underwriting; importance of correct actual practices to company solvency and liquidity. Three credit hours.

FINC 4368 Professional Financial Planning
Prerequisite: FINC 3310 with a grade of C or greater, and permission of instructor. Professional financial planning is the capstone course for the financial planning track of the Insurance and Financial Services major. The course covers all the significant aspects of financial planning, including: gathering data and determining goals and constraints, analyzing current financial status, and developing and presenting a financial plan. The course will include case studies. Three credit hours.

FINC 4371 Real Estate Finance and Investment
Prerequisite: FINC 3310, or FINC 3370, or consent of instructor. Elements of mortgage financing for housing and investment property; sources of funds; application and approval; real estate investment analysis; effects of financing and income taxation upon investment returns. A term project analyzing a proposed real estate investment is required. Three credit hours.

FINC 4372 Real Estate Valuation and Appraisal
Prerequisite: FINC 3370. Principles of valuation and appraisal of housing and investment property; market, replacement, and income approaches. A term project appraising an existing income property is required. Three credit hours.

FINC 4377 Independent Study in Real Estate
Prerequisites: consent of chairperson and instructor. Supervised independent study in a real estate area of particular interest to the student. No more than six credit hours of Independent Study in Real Estate may apply toward a degree. Credit to be determined at the beginning of the semester. One, two, or three credit hours.

FINC 4380 Portfolio Management
Prerequisites: FINC 3310 with a grade of C or greater, FINC 3350. Investment risks, returns, and requirements; portfolio policies for the individual and institutional investor; functions of the stock exchange, investment bankers, and brokers. Three credit hours.

FINC 4383 Applied Equity Analysis
Prerequisite: FINC 3350 for undergraduate or FINC 7320 for graduate credit, and consent of instructor. Using modern models of equity valuation, students analyze company and industry data, estimate fair value for equities, and then present their recommendations to a panel of industry experts. Once approved, the students' equity selections will then be implemented in the Ford Investment Trust. Students must apply to enroll in this course; check with the department for application forms and deadlines. Enrollment is limited to 15 students, no more than 5 of whom may be graduate students. Dual-listed in the UALR Graduate Catalog as FINC 5383. Three credit hours.

FINC 4395 Advanced Financial Management
Prerequisites: Senior finance major with a grade of C or greater in FINC 3310, consent of chairperson and instructor. Sophisticated techniques of financial management. Application of the body of financial theory to specific problems. Three credit hours.
FINC 4396 Cooperative Education I
Prerequisites: senior standing, finance major, completion of at least 9 hours of upper level finance courses, cumulative GPA of 2.50, and consent of department chairperson prior to registration. Designated to complement and extend the classroom learning experience through the application of theories and concepts in a professional work environment. A written project, designed in consultation with the faculty member, and a minimum of 200 hours with a participating employer during the semester are required. The exact number of weekly work hours, activities, and responsibilities depend upon the nature of the work experience and must be specified in written agreements between the student, faculty member, and the Office of Cooperative Education. This course is accepted as elective credit in the finance major. Three credit hours.

FINC 4397 Seminar in Finance
Prerequisites: senior standing and consent of faculty teaching course. Advanced finance topics offered in a modular format and usually team taught. Topics come from both the corporate and investments areas and may vary according to need. Three credit hours.

FINC 4398 Teaching Internship
Prerequisite: consent of department chair and the supervising faculty. Working with individual faculty instructors, upper-level majors assist students by holding review sessions twice a week for students enrolled in FINC 3310 and performing other supplemental teaching tasks as determined through consultation with the instructor. Unrestricted elective. Three credit hours.

FINC 4399 Independent Study
Prerequisites: senior standing, consent of chairperson and instructor. Research and independent investigation in specific areas of finance of interest to the student. Three credit hours.
The department offers a Bachelor of Business Administration in Management. There are three emphases within the management major:

1. General Management (offered on campus as well as totally online)
2. Human Resource Management (offered on campus as well as totally online)
3. Entrepreneurship and Small Business Management

Three minors in management are offered to students majoring in fields outside the College of Business (COB):

1. General Management (offered on campus as well as totally online)
2. Human Resource Management (offered on campus as well as totally online)
3. Entrepreneurship and Small Business Management

**General Information**

All majors in the department are required to achieve a grade of C or greater in all courses required in their major; all majors must also complete all required minor courses with a 2.0 overall GPA; all non-business majors completing a minor within the department are required to achieve a grade of C or greater in all courses transferred to or taken at UALR in order to fulfill course requirements in the minor block of courses.

**Management**

Each of the three emphases in the major develops critical thinking, specialized conceptual knowledge and problem-solving techniques.

**General Management Emphasis**

The General Management Emphasis prepares students for professional positions in management and leadership in small businesses, corporations, and government. Students gain knowledge and skills to acquire positions such as general manager, account manager, project manager/specialist, operations manager, human resource manager/specialist, employee relations manager, employee benefits specialist, and training specialist.

**Entrepreneurship and Small Business Management Emphasis**

The Entrepreneurship and Small Business Management emphasis develops conceptual and applied skills requisite to producing and managing an economically successful small business. Entrepreneurial and practical decision making skills are enhanced through experiential activities.

**Human Resource Management Emphasis**

The Human Resource Management emphasis focuses on the development of knowledge and applied skills in managing people and solving people-related problems. Students are prepared for entry level careers in human resource management and for management roles in organizations of all sizes. Components of the program include the legal environment of employee relations; job analysis and design; employee planning, recruitment and selection; employee training and development; employee productivity improvement, compensation, and other reward systems; union-management relations; and quality of work life.

**Management Educational Goals**

Students completing the management degree should be able to:

- Apply critical thinking skills
- Demonstrate competence in applying functional business knowledge.
- Solve real world and/or simulated business problems.
- Display a global perspective and an understanding of cultural issues.
- Have an ethical perspective and behave ethically.
- Exhibit effective oral and written communication skills.
Bachelor of Business Administration in Management

General: (120 total minimum hours, including 45 hours upper-level courses (3000-4000 level) and 30 hours in residence; students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree)

First-Year Colloquium (0-1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details.) BSAD 1100 recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (75 hours)
Pre-business Courses (24 hours)
- MATH 1342 Business Calculus
- ACCT 2310 Principles of Accounting I
- ACCT 2330 Principles of Accounting II
- ECON 2310 Business Statistics I
- ECON 2322 Principles of Microeconomics
- ECON 2323 Principles of Macroeconomics
- MGMT 1310 Fundamentals of Information Technology
- MKTG 2380 Legal Environment of Business

Professional Business Studies Foundation (24 hours)
- ECON 3355 Quantitative Business Analysis
- FINC 3310 Business Finance
- MGMT 3300 Organizational Behavior and Management
- MGMT 3304 Production/Operations Management
- MGMT 3305 Management Information Systems
- MGMT 3380 Business Communication
- MGMT 4380 Business Strategy and Policy
- MKTG 3350 Principles of Marketing

Emphasis Area (27 hours)
General Management Emphasis
- Four courses (12 hours) must be the following:
  - MGMT 3320 Human Resources Management
  - MGMT 3340 Applied Organizational Behavior
  - MGMT 3362 Small Business Management
  - MGMT 4377 International Business Management

- Five courses (15 hours) chosen from the following:
  - MGMT 3306 Quality Assurance and Improvement
  - MGMT 3352 Advanced Personal Computer Applications
  - MGMT 4331 Management of Information Resources
  - MGMT 4341 Labor and Industrial Relations
  - MGMT 4360 Compensation Management
  - MGMT 4361 New Venture Creation
  - MGMT 4365 Business Consulting
  - MGMT 4375 Sustainable Business
  - MGMT 4377 International Business Management

Human Resource Management Emphasis
- Five courses (15 hours) must be the following:
  - MGMT 3320 Human Resources Management
  - MGMT 3340 Applied Organizational Behavior
  - MGMT 4331 Management of Information Resources
  - MGMT 4360 Compensation Management
  - MGMT 4391 Employment Law

- Four courses (12 hours) chosen from the following:
  - FINC 4364 Employee Benefits
  - MGMT 3352 Advanced Personal Computer Applications
  - MGMT 4342 Negotiation/Collective Bargaining Agreements
  - MGMT 4385 Special Topics in Management
  - MGMT 4395 Applications in Human Resource Management
  - SPCH 3316 Interviewing
  - MGMT 3352 Advanced Personal Computer Applications

- May include one of the following:
  - MGMT 3362 Small Business Management
  - MGMT 3364 Family Business Management
  - MGMT 4375 Sustainable Business
  - MGMT 4377 International Business Management

Entrepreneurship and Small Business Management Emphasis
- Six courses (18 hours) must be the following:
  - MGMT 3320 Human Resource Management
  - MGMT 3340 Applied Organizational Behavior
  - MGMT 3352 Advanced Personal Computer Application
  - MGMT 3364 Family Business Management
  - MGMT 4391 Employment Law

- Three courses from the following (9 hours):
  - Select nine credit hours from the following:
    - MGMT 3362 Small Business Management
    - MGMT 4361 New Venture Creation
    - MGMT 4365 Business Consulting
    - MGMT 4385 Special Topics in Management
    - SPCH 3316 Interviewing

May include one of the following:
- MGMT 3370 Principles of Retailing
- MGMT 3385 Consumer Analysis and Behavior
- MGMT 4370 Business-to-Business Marketing
- ADVT 3300 Principles of Advertising
- FINC 3370 Real Estate
- FINC 4360 Risk Management
- FINC 4365 Estate Planning
- MKTG 3353 Principles of Selling
- MKTG 4341 Product and Service Strategy
- MGMT 4385 Special Topics in Management

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Minors in Management

A grade of C or greater in all UALR or transfer courses is required in order to fulfill a course requirement in each of these minor blocks of courses.

Management Minor (18 hours)

MGMT 3300 Organizational Behavior and Management
MGMT 3320 Human Resources Management

Four courses (12 hours) from:
- ACCT 2310 Principles of Accounting I
- MGMT 3305 Management Information Systems
- MGMT 3340 Applied Organizational Behavior
- MGMT 3362 Small Business Management
- MGMT 4360 Compensation Management
- MGMT 4377 International Business Management
- MGMT 4385 Special Topics in Management
- MGMT 4391 Employment Law

Human Resource Management Minor (18 hours)

MGMT 3300 Organizational Behavior and Management
MGMT 3320 Human Resources Management

Four courses (12 hours) from:
- ACCT 2310 Principles of Accounting I
- MGMT 4341 Labor and Industrial Relations
- MGMT 4342 Negotiation and Administration of Collective Bargaining Agreements
- MGMT 4360 Compensation Management
- MGMT 4385 Special Topics in Management
- MGMT 4391 Employment Law

Entrepreneurship and Small Business Management Minor (15 hours)

MGMT 3300 Organizational Behavior and Management
MGMT 3362 Small Business Management
MGMT 3361 New Venture Creation
MGMT 3383 Issues in Entrepreneurship

One course (3 hours) from:
- MGMT 3320 Human Resources Management
- MGMT 3352 Advanced Personal Computer Applications
- MGMT 3364 Family Business Management
- MGMT 4365 Business Consulting

Courses in Management (MGMT)

MGMT 1300 Introduction to Business
A survey of business organization and operation, the various fields of business, basic business problems and procedures, the vocabulary of business, and the opportunities open to college graduates in business. Not open to junior and senior majors within the college. Three credit hours. (ACTS Course Number BUS 1013)

MGMT 2300 Supervisory Management
The supervisor and his or her relations with subordinates, superiors, colleagues, unions, and society. Emphasis on managerial aspects common to all supervisory positions, regardless of the technical specialty involved or the nature of the organization. Three credit hours.

MGMT 3300 Organizational Behavior and Management
Organizational theory, concepts, principles, behavior, and practices in operating an organization. Internal and external forces, planning, decision and control processes, motivation, formal and informal structure, productivity, and leadership. Three credit hours.

MGMT 3304 Production/Operations Management
Prerequisite: MGMT 3380, ECON 2312, or ECON 3355. Discussion of topics relating to creation and distribution of goods and services. Topics will be selected from quantitative techniques such as PERT/CPM, forecasting, transportation and assignment, quality control, learning curves scheduling and planning, inventory control, and modeling. Three credit hours.

MGMT 3306 Quality Assurance and Improvement
Prerequisite: ECON 2312 or ECON 3355. Quality control techniques, standards, and policies for production and operations environments; role of purchasing agent and engineer in specifying and insuring standards for purchased components; design and development of quality control and quality assurance systems throughout the organization. Three credit hours.

MGMT 3320 Human Resources Management
The principles of planning, directing, and controlling the personnel function. Emphasis on the effective implementation of a comprehensive personnel program, including the recruitment, development, evaluation, and motivation of employees. Three credit hours.

MGMT 3340 Applied Organizational Behavior
Prerequisites: MGMT 3300 or equivalent. A study and integration of basic managerial concepts and behavioral sciences as they affect people in organizations. Emphasis on environmental and inter-organizational forces that influence membership behavior. Three credit hours.

MGMT 3362 Small Business Management
Corequisite: MGMT 3300 or consent of instructor. The operation of a successful small business including feasibility studies for expansion/growth, business plans, strategic management, marketing, financing, and human resource considerations. Three credit hours.

MGMT 3364 Family Business Management
Prerequisite: MGMT 3300. Management of family firm issues such as the interaction of family members, business objectives versus family objectives, succession planning, management development, motivation, and estate planning. Emphasis on the transition from personal management practices to professional management practices. Three credit hours.

MGMT 3392 Cooperative Education I
Prerequisite: consent of faculty sponsor and department chair prior to enrolling in the course. Provides experience in an organizational setting designed to integrate theory and practice. Course is offered on a credit/no credit basis only, with credit being equivalent to C or greater performance. Three credit hours.

MGMT 4100, 4300 Independent Study
Prerequisites: senior standing, management major with a minimum GPA of 3.00, consent of instructor. Individual study in the application of sound management principles to the solution of business problems. One or three credit hours.

MGMT 4304 Production/Operations Management II
Prerequisite: MGMT 3304. A continuation of topics similar to those presented in MGMT 3304. Topics chosen from simulation, waiting lines, scheduling, inventory systems, facility layout, motion and time studies, aggregate planning and modeling, as they relate to production/service organizations. Three credit hours.

MGMT 4309 Seminar: Special Topics in CIS/MIS
Topics especially relevant to Management Information Systems professionals will be offered on an elective basis. Such topics include, but are not limited to data communication, e-commerce technologies, and IS security. Three credit hours.
MGMT 4341 Labor and Industrial Relations
Prerequisite: MGMT 3431. The industrial relations system and environment, including legal and economic constraints on participants in the bargaining process. Emphasis on collective bargaining as a power relationship in a conflict situation. Three credit hours.

MGMT 4342 Negotiation and Administration of Collective Bargaining Agreements
Lecture and extensive use of case studies to develop the strategy and tactics of contract negotiation, application, and interpretation. Emphasis on the grievance process and arbitration. Three credit hours.

MGMT 4360 Compensation Management
Prerequisite: MGMT 3320. Administration of the total compensation program as a tool of management, including the use of job descriptions, job analysis and evaluation, and other necessary considerations in initiating and executing wage and salary administration. Three credit hours.

MGMT 4361 New Venture Creation
Prerequisites: MGMT 3362 or consent of instructor. The role of the entrepreneur in new venture development. Identifying, assessing, and developing entrepreneurial opportunities. Dual-listed in the UALR Graduate Catalog as MGMT 5361. Three credit hours.

MGMT 4363 Financing Entrepreneurial Ventures
Prerequisites: FINC 3310 and MGMT 3300. Financing alternatives for new and growing ventures; debt financing from investment banks, commercial banks, and SIBIC, as well as equity financing from angel investors, private placements, venture capitalists, and public equity markets. Students use firm valuation methods and calculate return to investors to create a capital plan for a growing enterprise. Three credit hours.

MGMT 4365 Business Consulting
Prerequisite: MGMT 3362 or consent of instructor. Teams of students consult with local small businesses recommended by the Arkansas Small Business and Technology Development Center or other business resources. Students work on problems in accounting, production, marketing, personnel, finance, insurance, law, and information systems. Student teams write reports outlining the problems and recommended solutions. Dual-listed in the UALR Graduate Catalog as MGMT 5365. Three credit hours.

MGMT 4372 Construction Business Management
Surveys organizational and management topics from the perspectives of the construction industry. Missions, goals and objectives, strategies, and organizational structures are reviewed. Business plans are developed along with practice in using decision models. Total quality management is reviewed along with training plans. Also covered are external relations to regulation, unions, communities, suppliers, and customers. Three credit hours.

MGMT 4375 Sustainable Business
A cross-disciplinary course to introduce students to the emerging field of sustainability and its triple-bottom line focus on the social, environmental, and economic impacts of business. Dual-listed in the UALR Graduate Catalog as MGMT 5375. Three credit hours.

MGMT 4377 International Business Management
Prerequisite: MGMT 3300 or consent of the instructor. Key objectives are to define and evaluate the field of international business, to analyze the international operating context with an emphasis on the basics of cultural differences, and to discuss the management of key functional activities in firms operating in global markets. Major topics include the nature of international business; economic theory and international business operations; international systems and institutions and the analysis of key dimensions of the overseas operating environment. The management of the primary functional activities in international firms emphasized, with the focus on strategies, tactics, and structures for dealing with the special problems and challenges arising in global markets. Three credit hours.

MGMT 4378 Global Operations Management
Prerequisites: MGMT 3304 or senior standing and consent of the instructor. Focuses on managing manufacturing and service operations across national boundaries to provide an organization with a competitive advantage. Emphasis on strategic benefits of globalization through coordinated operations located in different countries and mastering both technological and social/cultural obstacles. Students analyze a series of cases that address the unique issues of global operations management. Three credit hours.

MGMT 4380 Business Strategy and Policy
Prerequisites: MGMT 1310, MGMT 3300, MGMT 3380, ECON 2312 or ECON 3355, FINC 3310, MKTG 3350, and be an officially accepted College of Business major. Integration of business concepts and techniques and their application to the development of corporate strategy and strategic planning by senior corporate executives. Includes setting objectives, developing business purposes, determining opportunities and threats, and implementing decision and control systems across functional areas. Three credit hours.

MGMT 4383 Issues in Entrepreneurship
A significant exposure to the entrepreneurial process. Interaction with real-world entrepreneurs will enhance the entrepreneurial decision-making abilities of the students. Three credit hours.

MGMT 4385 Special Topics in Management
Topics of current relevance to management professionals. Three credit hours.

MGMT 4391 Employment Law
An examination of legal problems involving employment discrimination based on race, color, religion, sex, national origin, or age. Examines the impact of developing principles of employment law on pre-employment inquiries and testing, seniority and promotions, and other personnel policies, practices, and procedures; affirmative action requirements; state and federal law used to resolve employment discrimination claims; the procedural framework for raising and adjudicating such claims before administrative agencies and the courts; requirements of the Fair Labor Standards Act, Equal Pay Act, ERISA, Worker’s Compensation, and OSHA; and current issues such as sexual harassment and employee dismissal. Three credit hours.

MGMT 4393 Cooperative Education II
Prerequisites: MGMT 3392 and consent of instructor and department chair prior to enrolling in the course. Provides experience in an organizational setting designed to integrate theory and practice. Course is offered on a credit/no credit basis only, with credit being equivalent to C or greater performance. Three credit hours.

MGMT 4394 Internship
Prerequisites: at least 90 semester hours earned with a minimum overall grade point average of 3.0 or department approval; a minimum of 12 semester hours of upper-level management courses completed; consent of instructor and department chair. Practical experience in an organizational setting designed to integrate management theory and applications. A written report is required. Course is offered on a credit/no credit basis only, with credit being equivalent to C or greater performance. Three credit hours.

MGMT 4395 Applications in HR Mgmt
Prerequisites: MGMT 3320 or MGMT 4391. This course is completely applied-oriented in which students get and opportunity to extensively practice Human Resource Management knowledge and skills. It is designed to help students become better equipped in the identification and utilization of successful Human Resource Management concepts and practices at their current or future workplaces. This course will help students become better managers and leaders in their organizations. Three credit hours.
Mission

The primary mission of the department is to prepare students for a professional career in marketing, advertising, or sales in the private and public sectors. The knowledge, analytical skills, and technical expertise required of marketing professionals are emphasized. The curriculum also provides a solid foundation for students planning graduate study in marketing and business.

Marketing majors are required to achieve a grade of C or greater in all courses required of their major; all majors must complete all required pre-business and professional business courses with an overall GPA of 2.0.

General Information

Educational Objectives

Students completing the marketing degree should accomplish the following educational objectives:

• Develop an understanding of the role of marketing in the global economy and within individual organizations.
• Develop an understanding of the ethical and social responsibilities of marketers.
• Develop an understanding of the nature and methods of marketing management, including marketing organization, marketing strategy planning, the development of marketing plans and programs, and the implementation and control of marketing programs.
• Develop an understanding of the nature of the marketing environment and the process of environmental analysis.
• Develop an understanding of the nature of consumer and institutional buyer markets, including an understanding of consumer and institutional buyer behavior.
• Develop an understanding of the process of market segmentation and finding target market opportunities.
• Develop an appreciation of the value of marketing information and an understanding of the marketing research process for obtaining marketing information.
• Develop an understanding of the marketing mix variables used by marketers in decision making, including the following:
  • Product management.
  • Marketing logistics management Marketing communications and promotion management Pricing management.

Degree Requirements

Major Requirements for Degrees in the Department of Marketing and Advertising

Students will choose an emphasis in General Marketing, Advertising/Integrated Marketing Communication, or Professional Sales. The degree requirements for the degrees offered in the marketing and advertising department at UALR are outlined in the following charts.

Minors in Marketing and Advertising/Public Relations

The department offers minors in marketing, advertising/public relations, and professional selling.

A minor in marketing requires 12 hours from MKTG 3350, 3385, 4310; and Elective ADVT 3300, MKTG 3353, or MKTG 4341.

A minor in advertising/public relations requires 15 hours consisting of MKTG 3350, 4310; ADVT 3300, 3310; and Elective ADVT 4320 or ADVT 3340.

A minor in professional selling requires 12 hours from the MKTG 3350, MKTG 3353, MKTG 4351, MKTG 4355. A cumulative GPA of 2.5 in all minor coursework is required.
Bachelor of Business Administration in Marketing

General: (120 total minimum hours, including 45 hours upper-level courses (3000-4000 level) and 30 hours in residence; students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree)

First-Year Colloquium (0-1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details.) BSAD 1100 recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (75 hours)

Pre-business Courses (24 hours)
MATH 1342 Business Calculus
ACCT 2310 Principles of Accounting I
ACCT 2330 Principles of Accounting II
ECON 2310 Business Statistics I
ECON 2322 Principles of Microeconomics
ECON 2323 Principles of Macroeconomics
MGMT 1310 Fundamentals of Information Technology
MGMT 2380 Legal Environment of Business

Professional Business Studies Foundation (24 hours)
ECON 3355 Quantitative Business Analysis
FINC 3310 Business Finance
MGMT 3300 Organizational Behavior and Management
MGMT 3304 Production/Operations Management
MGMT 3305 Management Information Systems
MGMT 3380 Business Communication
MGMT 4380 Business Strategy and Policy
MGMT 3350 Principles of Marketing

Required Marketing Courses for all Emphasis Areas
(15 hours)
ADVT 3300 Advertising: an IMC Approach
MGMT 3353 Professional Selling
MGMT 3385 Consumer Analysis and Behavior
MGMT 4310 Marketing Research
MGMT 4385 Marketing Management

Emphasis Area (12 hours)

General Marketing Emphasis
Four courses (12 hours) from the following:
MGMT 4341 Product and Service Strategy
MGMT 4370 Business-to-Business Marketing
Two classes (6 hours) approved marketing electives

OR

Advertising/Integrated Marketing Communication Emphasis
Four courses (12 hours) from the following:
ADVT 3310 Advertising IMC Development
ADVT 3340 Public Relations
ADVT 4320 Advertising IMC Implementation
One class (3 hours) approved Advertising electives

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Courses in International Business

IBUS 4314 International Business Strategy
Prerequisites: ECON 4320, FINC 4330, MGMT 4377, and MKTG 4320 or consent of the instructor. An integrated course that explores the key tasks facing international business managers including financial, managerial and marketing objectives and strategies. Heavy emphasis placed on decision-making and developing skills necessary for conduction international business. Course work will be project based and case analysis. Three credit hours.

IBUS 4316 Field Study in International Business
Prerequisite: Junior standing; repeatable subject to consent of International Business Program Coordinator. This course includes an international trip which provides students an opportunity to explore firsthand the international dimensions of business, to identify and pursue strategic issues in businesses, and to gain an awareness of how cultural, economic, political, and legal environments influence business practices. Prior to travel, students study and prepare reports on the country to be visited and upon return, prepare reports of their experiences, comparing pre- and post-visit perceptions. This course has a fee to cover travel costs and host institution charges. If course is repeated, travel must be to a different country. Three credit hours.

IBUS 4390 Cooperative Education
Prerequisite: 6 hours from ECON 4320, FINC 4330, IBUS 4316, MKTG 4320, MGMT 4377 and consent of the IBUS coordinator. Designed to complement and extend the classroom learning experiences through the application of theories and concepts in a professional work environment. A deliverable project, designed in consultation with a faculty member, and a minimum of 200 hours with a participating employer during the semester are required.

Courses in Marketing (MKTG)

MKTG 2380 Legal Environment of Business
Introduction to the American legal system. Provides a background of the legal environment as it pertains to profit and nonprofit organizations, along with ethical considerations and social and political influences as they affect such organizations. Three credit hours. (ACTS Course Number BLAW 2003)

MKTG 3300 Business Professionalism
Principles and techniques of professionalism for the individual sales and marketing executive, and the management of professional image and conduct. Three credit hours.
MKTG 3350 Principles of Marketing
Prerequisite: junior standing. Introduction to the structure and functions of the marketing system of the economy and to marketing practices of organizations. Includes examination of the environments of marketing decision making, marketing institutions and agencies, and marketing practices of organizations. Three credit hours.

MKTG 3352 Seminar in Current Topics
Prerequisite: 54 or more credit hours. Topics of current interest and importance in marketing and advertising/public relations. Three credit hours.

MKTG 3353 Professional Selling
Prerequisite: MKTG 3350. An examination of the requirements and responsibilities of professional sales representatives, including knowledge and skill requirements, market development, preparation, effective sales communications, and customer relations. Three credit hours.

MKTG 3361 Physical Distribution
Prerequisite: MKTG 3350. Examines the marketing and cost-saving opportunities in the physical movement of goods between supplier, manufacturer, and consumer. Specific functions such as transportation, warehousing, packaging, material handling, order processing, and others will be studied and integrated into various distribution strategies. Three credit hours.

MKTG 3370 Principles of Retailing
Prerequisite: MKTG 3350. Principles of retail store management, including competition, trade area and location analysis, merchandising and inventory control, store layout, promotion, managing employees, and customer service. Three credit hours.

MKTG 3381 Advanced Business Law
Prerequisite: MKTG 2380. A comprehensive overview of business law including the law of contracts, commercial paper, bankruptcy, agency, organizations, sales, property, securities, and other topics of interest to business students and particularly to those majoring in accounting who intend to take the CPA exam. This course does not apply toward the marketing elective requirement. Three credit hours.

MKTG 3385 Consumer Analysis and Behavior
Prerequisites: PSYC 2300, MKTG 3350. An analysis of the personal, environmental, and interpersonal forces affecting consumer decisions and of their implications for marketing strategy development. Three credit hours.

MKTG 4199 Honors Seminar in Marketing
Prerequisites: senior standing, consent of department chairperson. Accelerated seminar on the latest developments in marketing strategy and marketing management, team taught by the departmental faculty. Students will prepare and present an honors paper. One credit hour.

MKTG 4310 Marketing Research
Prerequisite: MKTG 3350 or consent of instructor. A study of the development and use of information for marketing decision making; research methods applied to problems of market segmentation, pricing, distribution, promotional strategy, and development of marketing strategies. Three credit hours.

MKTG 4320 International Marketing
Prerequisite: MKTG 3350. Introduction to the major dimensions of the international marketing environment. Study of planning and managing international marketing operations. The focus is on strategies, procedures and structures for dealing with the particular problems and challenges arising in the international marketing process. Three credit hours.

MKTG 4341 Product and Service Strategy
Prerequisite: MKTG 3350. Examines the key tasks facing brand managers, including analyzing the marketing environment and developing objectives and strategies for the product or service. Includes the day-to-day responsibilities for managing either a single product or service or a closely-related product line. Heavy emphasis on marketing mix decisions concerning pricing, product, service, promotion, and distribution strategies. Students work in brand management teams to develop a marketing plan for a product or service. Three credit hours.

MKTG 4351 Sales Management
Prerequisite: MKTG 3350 and MKTG 3353. Administration of the professional sales force. Includes recruitment, selection, training, organization, motivation, compensation, routing and scheduling, and control of sales staff. Three credit hours.

MKTG 4355 Advanced Professional Selling
Prerequisites: MKTG 3350, MKTG 3353. Advanced techniques of salesmanship, field application of selling techniques, improving communications skills. Key focus is key account selling and relationship management. Problem solving as the basis of consultative selling. Business-to-business emphasis. Three credit hours.

MKTG 4360 Purchasing
Prerequisite: MKTG 3350. Management of materials acquisition and control as it relates to the engineering, production, marketing, and finance functions of the organization. Three credit hours.

MKTG 4370 Business-to-Business Marketing
Prerequisite: MKTG 3350. Cases and concepts of marketing products from one business to another. This course includes specific strategies and techniques for the development of product policy, pricing, promotion, and distribution of business products. Three credit hours.

MKTG 4378 Real Estate Law
Prerequisite: FINC 3370. An introduction to the nature of real property; ownership rights and estates; descriptions; easements, fixtures, liens, sales, land contracts; mortgage law; deeds and intestate succession; zoning; and recent developments. This course does not apply toward the marketing elective requirement. Three credit hours.

MKTG 4385 Marketing Management
Prerequisites: senior standing, MKTG 3350, MKTG 3385, MKTG 4310, ADVT 3300, MKTG 3353. The application of marketing concepts and techniques to the solution of marketing problems, includes product positioning, product and product line, price, channels of distribution, advertising, and personal selling. The case study method is emphasized. Three credit hours.

MKTG 4390 Independent Study
Prerequisites: consent of instructor and department chair, minimum 3.00 GPA. Research and independent investigation in specific areas of marketing of interest to the student. Three credit hours.
MKTG 4395 Cooperative Education I
Prerequisites: senior standing, major in marketing or advertising, completion of at least nine hours of upper-level marketing or advertising courses with a grade of C or greater, cumulative GPA of 2.50, and consent of a sponsoring faculty member prior to registration. Designed to complement and extend the classroom learning experience through the application of marketing theories and concepts in a professional work environment. A written project, designed in consultation with the faculty member, and a minimum of 200 hours with a participating employer during the semester are required. The exact number of weekly work hours, activities, and responsibilities are dependent upon the nature of the work experience and must be specified in written agreements between the student, faculty member, and the Office of Cooperative Education. This course is accepted as elective credit in the marketing or advertising/public relations major. Course is offered on a credit/no credit basis only. Three credit hours.

MKTG 4396 Cooperative Education II
Prerequisites: credit for the completion of MKTG 4395 and consent of a sponsoring faculty member prior to registration. Designed as the continuation of MKTG 4395. A written project, designed in consultation with the faculty member, and a minimum of 200 hours with a participating employer during the semester are required. The exact number of weekly work hours, activities, and responsibilities are dependent upon the nature of the work experience and must be specified in written agreements between the student, faculty member, and the Office of Cooperative Education. This course is not accepted as elective credit in the marketing or advertising/public relations major. Course is offered on a credit/no credit basis only. Three credit hours.

Courses in Advertising (ADVT)

ADVT 3300 Advertising: an IMC Approach
Prerequisite: MKTG 3350. Fundamentals of local, national, and international advertising are covered, including social, ethical, and legal/regulatory aspects. Major members of the industry are discussed including advertisers, agencies, and the media. The advertising process is detailed, including research, strategic marketing planning, copyrighting, art direction, and media planning and selection. Three credit hours.

ADVT 3310 Advertising IMC Development
Prerequisite: ADVT 3300. Fundamentals of advertising from the advertiser’s perspective as an integrated element of the promotion mix are covered, including the administration of advertising campaigns, budgets, media planning, and advertising research. Three credit hours.

ADVT 3340 Public Relations
Prerequisite: ADVT 3300. History and development of public relations as an influential part of the management function is discussed, including the public relations process of fact finding, opinion research, planning, communicating, and evaluating. Decision making and application of management policy as it relates to the organization’s various publics is covered. Three credit hours.

ADVT 4320 Advertising IMC Implementation
Prerequisite: ADVT 3300. Writing advertising copy and creating visual graphics are covered, along with production techniques used in newspaper, magazine, radio, television, outdoor, direct mail, and other media. Different creative philosophies are studied, and creative consistency with the marketing strategy based on research is stressed. Three credit hours.

ADVT 4290, 4390 Independent Study
Prerequisites: prior consent of instructor, marketing or advertising/public relations major or minor with a minimum 3.00 GPA. Two or three credit hours.

Course in Professional Selling (PFSL)

PFSL 4395 Cooperative Education I
Prerequisites: MKTG 3350, MKTG 3353 with grades of C or greater, a cumulative GPA of 2.5, and consent of a sponsoring faculty member prior to registration. The application of sales concepts and techniques in a field setting. A written project, designed in consultation with the faculty member, and a minimum of 200 hours with a participating employer during the semester are required. The exact number of weekly work hours, activities, and responsibilities are dependent upon the nature of the work experience and must be specified in written agreements between the student, faculty member, and the Office of Cooperative Education. Course is offered on a credit/no credit basis only. Three credit hours.
General Information

The International Business major uses an interdisciplinary approach to study the intricacies of the international marketplace. This major focuses on the complexities and interconnections between the world’s markets and cultures. The goal is to prepare students to be managers in the twenty-first century.

A major in international business is valuable for positions with an international context in areas such as finance, purchasing, marketing, production, logistics and planning. Students completing the international business degree should accomplish the following educational objectives:

- Understand the nature of international business.
- Understand the major trends in the international trade and investment patterns between and among the major groups of nations and the theories purporting to explain these patterns.
- Understand the nature of international organizations such as the United Nations, the International Bank for Reconstruction and Development (World Bank), International Monetary Fund, World Trade Organization, Organization for Economic Cooperation and Development and their effects on business.
- Understand the major financial, economic/socioeconomic, political, labor, competitive and distributive forces affecting international business.
- Understand the export and import practices, terminology, and documentation.
- Understand the functional areas of business economics, marketing, human resources, finance, operations, and control of international business.

Bachelor of Business Administration in International Business

General: (120 total minimum hours, including 45 hours upper-level courses (3000-4000 level) and 30 hours in residence; students must complete at UALR at least 50 percent of the major department degree requirements and at least 50 percent of all COB courses required for a business degree)

First-Year Colloquium (0-1 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details.) BSAD 1100 recommended.

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (Prerequisite courses for intermediate level work required in the degree are not included in the degree hours)

Major (75 hours)

Pre-business Courses (24 hours)
- MATH 1342 Business Calculus
- ACCT 2310 Principles of Accounting I
- ACCT 2330 Principles of Accounting II
- ECON 2310 Business Statistics I
- ECON 2322 Principles of Microeconomics
- ECON 2323 Principles of Macroeconomics
- MGMT 1310 Fundamentals of Information Technology
- MKTG 2380 Legal Environment of Business

Professional Business Studies Foundation (24 hours)
- ECON 3355 Quantitative Business Analysis
- FINC 3310 Business Finance
- MGMT 3300 Organizational Behavior and Management
- MGMT 3304 Production/Operations Management
- MGMT 3305 Management Information Systems
- MGMT 3380 Business Communication
- MKTG 4380 Business Strategy and Policy
- MKTG 3350 Principles of Marketing

International Business Electives – one course (3 hours) from:
- ACCT 3311 Intermediate Financial Accounting I
- ACCT 4316 International Accounting
- ECON 3355 Applied Econometrics
- FINC 4362 Derivatives
- MKTG 4310 Marketing Research
- MGMT 3320 Human Resources Management
- MGMT 3340 Applied Organizational Behavior
- MGMT 4361 New Venture Creation
- MGMT 4377 International Management
- MGMT 4365 Business Consulting
- MGMT 4378 Global Operations Management

NOTE: other courses as approved by coordinator

Emphasis Area (30 hours)

Required International Business Courses

Demonstrate Second Language Proficiency (9 hours):

Option 1:
Completion of SPAN 2311, 2315, 3311 or FREN 2311, 2315, 3311 or equivalent foreign language courses. Students may take a placement test (S-CAPE or F-CAPE).

Option 2:
For students whose first language is not English, completion of RHET 1311, RHET 1312, and one of ENGL 2337, ENGL 2338, or PHIL 2320

International Business Required Courses (15 hours):
- ECON 4320 International Economics
- FINC 4330 International Finance
- MGMT 4377 International Management
- MKTG 4320 International Marketing
- IBUS 4316 Field Study in International Business
- IBUS 4390 Co-operative Education

International Business Electives – one course (3 hours) from:
- ACCT 3311 Intermediate Financial Accounting I
- ACCT 4316 International Accounting
- ECON 3355 Applied Econometrics
- FINC 4362 Derivatives
- MKTG 4310 Marketing Research
- MGMT 3320 Human Resources Management
- MGMT 3340 Applied Organizational Behavior
- MGMT 4361 New Venture Creation
- MGMT 4377 International Management
- MGMT 4365 Business Consulting
- MGMT 4378 Global Operations Management

NOTE: other courses as approved by coordinator
Demonstrate Cultural Awareness (3 hours):

**Option 1, Available to U.S. Residents:**
- FREN 3334 French Culture and Civilization I
- GERM 3334 German Culture and Civilization
- SPAN 3334 Hispanic Culture: Peninsular
- SPAN 3335 Hispanic Culture: Americas
- HIST 3317 Twentieth Century Europe
- HIST 3328 Modern France
- HIST 3331 Modern Germany since 1806
- HIST 3372 History of Latin America: Republic Period
- HIST 3375 Modern Mexican History
- HIST 4378 The History of U.S. – Latin American Relations
- POLS 3360 Comparative Government: Western
- POLS 3370 Comparative Politics: Developing Areas
- POLS 4380 International Relations

**Option 2, Available Only for non-U.S. Resident Students**
- HIST 3358 Recent America
- HIST 4350 The United States and the Middle East
- HIST 4354 The New South
- HIST 4364 History of American Enterprise
- HIST 4365 Modern US Culture
- HIST 4378 History of US-Latin American Relations
- POLS 3320 The American Presidency
- POLS 3325 Legislative Process
- POLS 4320 American Foreign Policy
- POLS 4331 International Organizations
- SPCH 4312 Intercultural Communication

**NOTE:** Other courses as approved by coordinator

**Minor (none required)**

**Unrestricted General Electives**

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

**Courses in International Business**

**IBUS 4314 International Business Strategy**
Prerequisites: ECON 4320, FINC 4330, MGMT 4377, and MKTG 4320 or consent of the instructor. An integrated course that explores the key tasks facing international business managers including financial, managerial and marketing objectives and strategies. Heavy emphasis placed on decision-making and developing skills necessary for conduction international business. Course work will be project based and case analysis. Three credit hours.

**IBUS 4316 Field Study in International Business**
Prerequisite: Junior standing; repeatable subject to consent of International Business Program Coordinator. This course includes an international trip which provides students an opportunity to explore firsthand the international dimensions of business, to identify and pursue strategic issues in businesses, and to gain an awareness of how cultural, economic, political, and legal environments influence business practices. Prior to travel, students study and prepare reports on the country to be visited and upon return, prepare reports of their experiences, comparing pre- and post-visit perceptions. This course has a fee to cover travel costs and host institution charges. If course is repeated, travel must be to a different country. Three credit hours.

**IBUS 4390 Cooperative Education**
Prerequisite: 6 hours from ECON 4320, FINC 4330, IBUS 4316, MKTG 4320, MGMT 4377 and consent of the IBUS coordinator. Designed to complement and extend the classroom learning experiences through the application of theories and concepts in a professional work environment. A deliverable project, designed in consultation with a faculty member, and a minimum of 200 hours with a participating employer during the semester are required.
The College of Education (COE) provides professional course work for pre-service and in-service teachers and other personnel in related fields. Satisfactory completion of a prescribed course of study in early childhood education, or middle childhood education leads to a baccalaureate degree in education (BSE) and meets initial professional licensure requirements. The College offers a minor in secondary education for students pursuing careers as secondary teachers in the areas of art, vocal music, foreign languages, social studies, language arts, mathematics, physical science/earth science, life science/earth science, or integrated physical education and health. See Secondary Teacher Licensure for additional information.

General Information

The COE also provides course work to prepare personnel in the fields of rehabilitation of the blind, interpreting for persons who are deaf and hard of hearing, counselor education, rehabilitation counseling, reading, special education, gifted education, educational administration, adult education, and higher education at the graduate level. In addition, the college provides services to the UALR community through the Educational Renewal Zone and various educational programs for children and youth.

The college offers bachelor of science in education (BSE) degrees in early childhood, and middle childhood, and a minor in secondary education (see Secondary Teacher Licensure). A licensed teacher may add an area of endorsement (Contact Licensure Officer for specific information). An associate of science (AS) degree in American Sign Language Studies and a bachelor of arts (BA) degree in Interpretation: ASL/English are offered through the Interpreter Education Program.

At the graduate level the college offers a master of arts (MA), a master of education (MEd), an education specialist (EdS), and a doctor of education (Ed.D.).

The college consists of several units: Departments of Teacher Education, Educational Leadership, Counseling, Adult and Rehabilitation Education, the Center for Applied Studies in Education, and the Center for Gifted Education and Advanced Placement, and the Center for Literacy.

Programs in the college, which prepare educational professionals, are accredited by the National Council for Accreditation of Teacher Education (NCATE) and endorsed by national specialty professional associations.

Conceptual Framework, Mission, and Goals

The mission of the College of Education is “Utilizing state of the art methodologies and technologies and demonstrating effective and reflective interactions with stakeholders, the UALR COE promotes and strengthens the professional development of individuals who, through UALR COE programs, attain specialized expertise concerning education and human resource development in diverse settings.” The COE is committed to the preparation of teachers, counselors, administrators, interpreters for the deaf, rehabilitation professionals, and professionals in higher education as lifelong learners in their respective fields of specialization. The vision of the COE is “Leaders in Learning” as demonstrated through the conceptual framework which emphasizes communication, specialized expertise, a strong commitment to diversity, and professional development.

A primary goal of the COE is to offer professional training in various educational and in related fields such as adult education, rehabilitation counseling, adult education and rehabilitation teaching.

The Interpreter Education: American Sign Language/English Program

The Interpreter Education: American Sign Language/English program prepares individuals in the field of deafness who wish to specialize in interpreting and transliterating for persons who are deaf, hard of hearing, or deaf-blind in educational, medical, mental health and other community settings. UALR provides a core curriculum program of general education and specialized instruction in American Sign Language, signed English systems, and manipulation of two languages during the interpretation process. Extensive studies in the areas of deafness; the profession of interpreting; and the deaf community and deaf culture are included in the associate of arts and bachelor of arts curriculum. Admission to the program is determined by grades of B or greater in ASL I and II. Once admitted, students must achieve a Sign Communication Proficiency Interview (SCPI) score of Intermediate or above to advance from language classes to interpreting courses. Upon completion of the first interpreting series, students must achieve a Quality Assurance Screening Test (QAST) Level I/I before proceeding to upper-level interpreting courses.
The Undergraduate Teacher Education Programs

The teacher education programs prepare highly qualified individuals for careers as licensed professional educators. To accomplish this, UALR prepares teacher candidates to acquire the knowledge, dispositions and skills identified by national specialized professional associations (such as the national Middle School Association), Arkansas Standards of licensure for teachers, and NCATE (The National Council for Accreditation of Teacher Education).

- **Standard 1.** The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches, can create learning experiences that make these aspects of subject matter meaningful for students and can link the discipline(s) to other subjects.
- **Standard 2.** The teacher plans curriculum appropriate to the students, to the content, and to the course objectives.
- **Standard 3.** The teacher plans instruction based upon human growth and development, learning theory, and the needs of students.
- **Standard 4.** The teacher exhibits human relations skills, which support the development of human potential.
- **Standard 5.** The teacher works collaboratively with school colleagues, parents/guardians, and the community to support student’s learning and well-being.

In addition to professional training, the college offers a variety of service and activity courses to the UALR community. Finally, the college supports service, research, and development projects in several areas through the Center for Applied Studies in Education, the Summer Laureate Program/University for Youth, the Center for Literacy, the Educational Renewal Zone, and the Center for Giftedness and Advance Placement.

In addition to the goals of the teacher education program, the faculty of the College of Education is committed to the broader goals of teaching, University and public service, and research. Because UALR is an urban institution, the college has a special responsibility to serve the central Arkansas metropolitan area. The faculty is committed to assisting in continued improvement of education through cooperation with public school officials in programs of professional growth.

Application for Admission to the BSE in Early Childhood Education

The following are minimum criteria for consideration for admission to the program. All applicants must

- be formally admitted to UALR;
- have completed RHET 1311 and 1312 English Composition, SPCH 1300, MATH 1321 or 1302 (see advisor) with a grade of C or greater in each of these courses.
- have completed all core requirements with an overall degree plan cumulative GPA of 2.65 or greater and 3.0 in the last 60 hours. Students seeking admission to the college with associate’s degrees designed for transfer (Associate of Arts, Associate of Arts in Teaching, and some Associate of Science degrees) should refer to the “Community College Transfers” information appearing later in this section.
- achieve a passing scores on the Praxis I (see Licensure Officer for passing scores).
- demonstrate interest and motivation to work with children through past experiences (such as employment related to children or volunteer work with children). Students who would like assistance in identifying appropriate volunteer experiences should contact the Department of Teacher Education for advisement, or talk with the Office of Campus and Community Partnerships.
- contact the Undergraduate Advisor in Teacher Education, DKS N 300 (501) 569-3124, to complete the admission application.

Retention

Retention decisions are the responsibility of the faculty. Once admitted, students are required to maintain a 2.65 grade point average, with at least a C in all courses specific to the early childhood program. In addition, students’ professional behaviors, content knowledge, and classroom performance will be evaluated throughout the program. Successful completion of the licensure program is not based solely on the number of course credits, but requires demonstration of specified professional knowledge, skills, and behaviors. While a student may require additional time to meet some performance expectations, the faculty may limit that time and reserves the right to remove a student from the program should appropriate progress not be demonstrated.

Application for Admission to the BSE in Middle Childhood Education

The following are minimum criteria for consideration for admission to the program:

For admission to Block I, all applicants must

- be formally admitted to UALR;
- have completed RHET 1311 and 1312 English Composition, SPCH 1300, MATH 1321 or 1302 (see advisor) with a grade of C or greater in each of these courses; and
- have completed all core requirements with an overall degree plan cumulative GPA of 2.65 or greater or 3.0 in the last 50 hours. Students seeking admission to the college with associate’s degrees designed for transfer (Associate of Arts, Associate of Arts in Teaching, and some Associate of Science degrees) should refer to the “Community College Transfers” information appearing later in this section.
- pass Praxis I.

For admission to Block II, all applicants must

- satisfactorily complete all Block II requirements with an overall GPA of 2.65 or greater,
- achieve a passing scores on the Praxis II content exams, and
- contact the Undergraduate Advisor in Teacher Education, DKS N 300 (501) 569-3124, to complete the admission application.

For admission to Block III, all applicants must

- satisfactorily complete all Block II requirements with an overall GPA of 2.65 or greater and
- achieve a passing scores on the Praxis II content exams.

For admission to Block II, all applicant must

- satisfactorily complete all Block III requirements with an overall GPA of 2.65 or greater and
- satisfactorily complete Internship I.

Retention

Retention decisions are the responsibility of the faculty. Once admitted, students are required to maintain a 2.65 grade point average, with at least a C in all courses specific to the middle childhood program. In addition, students’ professional behaviors, content knowledge, and classroom performance will be evaluated throughout the program. Successful completion of the licensure program is not based solely on the number of course credits, but requires demonstration of specified professional knowledge, skills, and behaviors. While a student may require additional time to meet some performance expectations, the faculty may limit that time and reserves the right to remove a student from the program should appropriate progress not be demonstrated.
Legal Requirements for Early Childhood and Middle Childhood Candidates

Students who have been formally admitted to the program must complete the following requirements before being placed in the field:

- Proof of liability insurance. This insurance is provided through the School Workers Defense Program or by joining the Student Arkansas Education Association (SAEA).
- A negative tuberculosis test. Health Card is available through the Arkansas Department of Health or at the University’s Health Center.
- Criminal records check: state civil record check and FBI record check must be completed. The student is responsible for the fees associated with these checks (See Licensure Officer, Rene Carson, for correct paperwork).

Graduation Requirements for Early Childhood and Middle Childhood Candidates

Completion of all courses on degree plan with grades as required and passing scores on all required Praxis II exams (see Licensure Officer for correct Praxis II exams to take).

Entry of all required artifacts into Chalk and Wire and submission of these artifacts for assessment in Chalk and Wire.

Submission of Graduation Application on Boss by announced deadline.

Licensure

Applicants must provide the following items to the College of Education Licensure Officer:

- A completed license application form.
- An official UALR transcript showing the date the degree was granted.
- Official transcripts from all other institutions attended.
- Appropriate Praxis II scores.
- State Police and FBI record checks.

For more information concerning licensure, contact the College of Education Licensure Officer, Dickinson Hall, Room 323.

Community College Transfers

Students transferring to UALR from two-year colleges are subject to these provisions (See “Transfer Students” section for requirements for admission of transfer students).

Students must first consult with UALR’s Academic Advising to articulate transfer coursework prior to being admitted to the College of Education.

Students must schedule an appointment with the Undergraduate Advisor in Teacher Education, DKSN 300 (501) 569-3124, to pursue admission to early childhood and middle childhood programs. Students must meet admission requirements listed above per program sought.

If a student has completed the Associate of Arts in Teaching (AAT) at a two year institution, core requirements at UALR will be met.

Students Who Transfer from Four-Year Institutions

These provisions listed for community college transfers may also apply to transfer work from four-year institutions that are either accredited by the National Council for the Accreditation of Teacher Education (NCATE) or approved as teacher education institutions by the state in which they are located.

Center for Applied Studies in Education

The Center for Applied Studies in Education (CASE) is an independent research and evaluation unit within the College of Education. The Center specializes in research involving education and human service issues. It provides research design; data collection, processing and analysis; statistical support; grant and report writing; program evaluation; and measurement procedures and instrument design services to local, state, and national agencies.

The center’s staff collaborates in research and training with UALR and UAMS faculty and students, and the Arkansas Department of Education’s Special Education Division, as well as with other state and national education and human service organizations. Current grants and contracts provide research and evaluation support to national government agencies and the state educational community. The CASE faculty participates in teaching undergraduate and graduate courses through the Department of Teacher Education.

Center for Literacy

The mission of the Center for Literacy is to use literacy as a tool for meeting the following goals:

- Prepare students to assume leadership roles for influencing literacy at local, state and national levels.
- Offer a framework for implementing learning communities within schools and regions where students can collaborate on literacy projects.
- Advocate for reading specialists, Reading Recovery teachers, and Literacy Coaches in all schools by making graduate coursework more accessible to students across the state.
- Promote research initiatives between faculty and schools.
- Provide services to the community, schools, and state to address literacy-related issues, including annual conferences, literacy academies, and summer institutes.
- Provide intellectual resources for supporting literacy efforts within schools.
- Continue to build partnerships at the national and professional levels in order to advocate for effective literacy practices, early intervention services for struggling readers, and reading specialists in all schools.
- Increase opportunities for faculty to collaborate on literacy-related projects and research.
- Publish scholarly materials, including a peer-referred online journal that focuses on school-based research, technical reports on literacy, and other documents that illustrate university and school partnerships.

The UALR Center for Literacy provides a structure for integrating five interrelated elements: teaching professional development, research and scholarly activity, technology, and partnerships. For additional information call (501) 683-7343.

Center for Gifted Education

The Center for Gifted Education, located in SUA 101, provides the following programs or services:

- AP Summer Institutes
- Arkansas Advanced Placement Professional Development Center
- Arkansas Evaluative Initiative
- Center forGifted Education
- Duke Talent Identification Ceremony
- Summer Laureate for Youth (SLUYF)
- For additional information, call (501) 569-3410.
- Federal Title II Survey
Six components are identified in Arkansas Title II Regulations for a “well-performing institution,” UALR meets all six criteria:

1. A summary pass rate of at least 80%.
2. A content major for secondary education for those who complete the program.
3. Student/Faculty supervision ratio does not exceed 18 to 1.
4. Number of weeks of student teaching is not less than 12 weeks.
5. The institution conducts an annual comprehensive unit assessment of teacher preparation.
6. The institution is not placed on probation by NCATE.

The following institutional report is made available in compliance with section 207F of Title II regarding the performance of the teacher preparation program at UALR for the 2006-2007 cohort of students. For further information and subject specific pass rates, visit the College of Education website.

### Institutional and State Pass Rates

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<thead>
<tr>
<th>Component</th>
<th>Institutional</th>
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<tr>
<td>Aggregate Basic Skills:</td>
<td>100% / 100%</td>
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<tr>
<td>Aggregate Professional Knowledge:</td>
<td>100% / 100%</td>
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<tr>
<td>Aggregate Academic Content:</td>
<td>100% / 100%</td>
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<tr>
<td>Summary Totals and Pass Rate:</td>
<td>100% / 100%</td>
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### UALRTeach for mathematics and science majors

UALRTeach introduces science and mathematics majors to the teaching profession through early field experiences with mentor and master teachers. One degree: unlimited opportunities - learn how UALRTeach can expand your career options! Explore teaching through two one-hour, hands-on, tuition-reimbursed courses (SCED/IGSC 1101 Step 1 and SCED/IGSC 1102 Step 2). Additional courses required in the UALRTeach program emphasize the relationships between mathematics and science, while integrating teaching content and skills throughout the field-intensive curriculum.

- SCED/IGSC 1101 Step 1: Inquiry Teaching FYC
- SCED/IGSC 1102 Step 2: Inquiry Lesson Design
- SCED 3383 Knowing and Learning
- SCED 3384 Classroom Interactions
- SCED 4385 Perspectives of Science & Math
- IGSC 4386 STEM Methodologies
- SCED 4387 Project Based Instruction
- IGSC 4388 Functions and Modeling
- SCED 4689 Apprentice Teaching

Visit ualr.edu/ualrteach/ for additional information.
The Department of Counseling, Adult and Rehabilitation Education (CARE) provides quality education to a heterogeneous student body at the undergraduate and graduate levels. The department is oriented to meeting the personnel needs of educational institutions and service providers in Arkansas and the nation by offering a strong emphasis on professional education with a practical application in each program. The department also provides community organizations and professional groups with services for persons who are deaf or hard of hearing, persons with visual impairments, and persons with physical disabilities.

General Information
The Department of CARE offers two undergraduate degrees and four graduate degrees. The undergraduate degrees are:

- An Associate of Science in American Sign Language Studies
- A Bachelor of Arts in Interpretation: ASL/English
- An academic minor in Educational Interpreting is designed for students who are majoring in Interpretation
- An academic minor in Sign Language Studies is designed for students who are not majoring in Interpretation.

Graduate Programs
At the graduate level, a Master of Education in counseling, a master of arts in rehabilitation counseling, a master of education in adult education, and a master of arts degree in rehabilitation for the blind are offered. The rehabilitation degree has two emphasis areas:

1. Orientation and mobility instruction for the blind
2. Rehabilitation teaching for the blind

A post-masters degree certificate in Rehabilitation Counseling is also offered through the Department of CARE. A certificate in Orientation and Mobility is offered on the master’s level. Consult the UALR Graduate Catalog for more information on the graduate programs.

Interpreter Education, American Sign Language (ASL)/English

The Associate of Science degree requires 60 hours and is designed to develop entry-level interpreting skills for students who are beginning careers in interpretation. The Bachelor of Arts degree requires 124 hours and is designed to develop mid- to high-level interpreting skills for students who are advancing their careers in interpretation and the field of deafness. Both programs are designed to develop the interpreting skills necessary for interpretation between individuals who are hearing and individuals who are deaf, deaf-blind, or hard of hearing, in the public and private sectors, educational institutions, business and industry, the arts, and in the community at large throughout Arkansas and the country.

Course work provides students with the knowledge of cultural diversity and interpretation skills necessary for practical application of the theories of second language learning and interpretation. The program includes:

- Instruction in American Sign Language, an English-based sign system, interpretation theory and process, the deaf community and deaf culture, and the profession of interpreting.
- Beginning and advanced interpretation and transliterating techniques with practice among American Sign Language, spoken English, and an English-based sign system, as well as techniques for interpreting for individuals who are oral, who are deaf-blind, and who are from diverse cultural backgrounds.
- Bicultural and multicultural sensitivity training and techniques for producing linguistic and cultural equivalents.
- Ninety clock hours of supervised practicum in direct communication with individuals who are deaf, deaf-blind, or hard of hearing.
- Three hundred clock hours of supervised internship in interpretation settings (BA degree only)

Practicum sites in Arkansas may include, but are not limited to, the Arkansas School for the Deaf, Arkansas Rehabilitation Services, independent school districts throughout central Arkansas, Administrative Office of the Courts, the UALR community, and the community at large. Internship sites may include in-state and out-of-state placements depending on students’ abilities and/or interests.

The Interpreter Education Program maintains a sign language laboratory of instructional materials for student use. All American Sign Language and interpreting methods sections require a minimum of one hour of lab per week.

Students must attain an overall GPA of 2.00 in all work attempted at the University and attain a grade of C or greater in each of the ASL and interpretation courses. Courses in the associate of arts and the bachelor of arts degrees prepare students for the Sign Communication Proficiency Interview (SCPI), the Mid-America Quality Assurance Screening State Test (QAST), the Registry of Interpreters for the Deaf, Inc. Certification Tests (RID), and the Educational Interpreter Performance Assessment (EIPA).
Second Language Requirement for all BA and Selected Other Degrees

Nine hours of ASL or demonstration of the equivalent proficiency meets the second language requirement for students seeking BA degrees.

Credit Validation

Students who have acquired ASL skills before enrolling at UALR may apply for credit for their proficiency by taking the sequel language skill course and earning a grade of B or greater. Students must request retroactive credit from the program coordinator. Up to nine hours of credit may be obtained in this manner. Students may request a language placement test by contacting the program office at (501) 569-3169 to identify at what level the student should enroll.

Admission and Exit Requirements in Interpreter Education

Students pursuing the Associate of Arts degree in Interpretation: ASL/English, must complete three (3) hours of ASL (INTR 1320 American Sign Language I), with a grade of B or greater, or demonstrate equal proficiency (see ASL Placement Test), or obtain permission from the program coordinator, Linda Stauffer, (501) 569-3169, before admission to the program. Students must make an appointment with a program advisor for advisement. To complete the AA degree program, students must attain a grade of C or greater in each of the interpretation courses, and complete an Intermediate Level on the Sign Communication Proficiency Interview (SCPI), take the state-administered Mid-America Quality Assurance Screening Test (QAST) for interpreters, and meet all other associate degree requirements. See “Associate Degree Requirement” on page 25. RequiredBenchmark: An SCPI Intermediate Level is required for continuation into the last semester of interpreting courses (INTR 3362, 3364, 3366, which are corequisite courses).

Students declaring the Bachelor of Arts degree in Interpretation: ASL/English as a major must complete six (6) hours of American Sign Language courses (INTR 1320 and INTR 1321) with grades of B or greater in each course, or demonstrate equal proficiency, or obtain permission from the program coordinator for admission to the program. Students must attain an overall GPA of 2.0 in all work attempted at UALR, a grade of C or greater in each of the interpretation courses, demonstrate proficiency or complete nine (9) hours of second language requirements (ASL satisfies the language requirement), achieve an SCPI Intermediate Level, take the state-administered Mid-America Quality Assurance Screening Test (QAST) for interpreters again, and must meet all other baccalaureate degree requirements. See “Baccalaureate Degree Requirements” on page 25. Required Benchmarks: An SCPI Intermediate Level is required for continuation into the beginning interpreting courses (INTR 3362, 3364 and 3366, which are corequisite courses) and a QAST Level I/1 is required prior for continuation into the intermediate interpreting course (INTR 3368) which has a corequisite course, INTR 3370 (Ethical Standards and Practices for Interpreters).

Minor in Educational Interpreting
(Interpretation Majors Only)

The minor in Educational Interpreting requires 18 hours. The program is designed to provide students majoring in Interpretation with the special skills necessary for interpreting in K-12 educational settings. Required courses include INTR 3344, 3350, 3372, 4346, 4370, 4384.

Minor in Sign Language Studies
(Non-interpretation Majors Only)

The minor in Sign Language Studies requires 18 hours. The program is designed to provide a basic knowledge of American Sign Language and English-based sign language systems, the profession of interpreting, and the field of deafness. Required courses include INTR 1320, 1321, 2320, and 1340. Students must complete two additional courses from INTR 2330, 2280, 2321, 2240 or 2344. Students interested in becoming professional interpreters for persons who are deaf, deaf-blind, or hard of hearing will need additional course work beyond the requirements of this minor.

Bachelor of Arts in Interpretation: ASL/English

General: 124 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)

See page 25 for requirement details.

Second Language Proficiency (9 hours)

Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

NOTE: INTR 1320, 1321 and 2320, as part of the program, satisfies the 9-hour second language proficiency requirement.

Major (62 hours)

Sign Language Studies Courses (25 hours)

INTR 1320 American Sign Language I
INTR 1321 American Sign Language II
INTR 2320 American Sign Language III
INTR 2321 American Sign Language IV
INTR 1340 Deaf Culture
INTR 2240 Specialized Terminology
INTR 2280 Fingerspelling
INTR 2330 Manually Coded English in Educational Settings
INTR 2344 Comparative Linguistics

Foundation Courses (6 hours)

INTR 3347 Introduction to Interpreting
INTR 3380 Introduction to Interpreting Research

Interpreting Courses (28 hours)

INTR 2240 Specialized Terminology
INTR 3364 Sign to Voice Interpreting/Transliterating
INTR 3366 Voice to Sign Interpreting/Transliterating
INTR 4330 Interpreting I
INTR 4332 Interpreting 2
INTR 4358 Interpreting for Persons who are Deaf-Blind
INTR 4380 Advanced Transliteration: English-English
INTR 4382 Advanced Interpretation: ASL-English

Capstone Course (7 hours)

INTR 4770 Internship
## Minor in Educational Interpreting (18 hours)

**Required for all Interpreting Majors**
- INTR 3344 Interpretation Theory and Process
- INTR 3350 Artistic Interpreting
- INTR 3372 Interpreting for Persons who are Hard of Hearing
- INTR 4346 Principles of Educational Interpreting
- INTR 4370 Ethical Standards and Practices
- INTR 4384 Interpreting Academic Subjects

## Minor in Sign Language Studies (18 hours)

**(Non-Interpreting Majors Only)**

**Required Courses**
- INTR 1320 American Sign Language I
- INTR 1321 American Sign Language II
- INTR 2320 American Sign Language III
- INTR 1340 Deaf Culture

**Minor Electives (Select Six Hours from the Following)**
- INTR 2240 Specialized Terminology
- INTR 2280 Fingerspelling
- INTR 2321 American Sign Language IV
- INTR 2330 Manually Coded English in Educational Settings
- INTR 2344 Comparative Linguistics

## Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

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## Associate of Science in American Sign Language Studies

**General:** 60 total hours, including 35 hours of core and 15 hours in residence

**First-Year Colloquium (0-3 hours)**

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.

(See page 36 for details)

**Core (35 hours)**

See page 25 for requirement details.

**Major (25 hours)**

**Sign Language Studies Courses (25 hours)**
- INTR 1320 American Sign Language I
- INTR 1321 American Sign Language II
- INTR 2320 American Sign Language III
- INTR 2321 American Sign Language IV
- INTR 1340 Deaf Culture
- INTR 2240 Specialized Terminology
- INTR 2280 Fingerspelling
- INTR 2330 Manually Coded English in Educational Settings
- INTR 2344 Comparative Linguistics

**Courses in Interpretation (INTR)**

**INTR 1320 American Sign Language I**

A web enhanced elementary course in American Sign Language (ASL) using a natural language approach to introduce culturally appropriate signed concepts related to the immediate environment. Common communicative events and interactions are utilized to acquire a basic working vocabulary and grammar. Includes development of appropriate linguistic/cultural behaviors and awareness of and respect for Deaf Culture. Receptive and expressive skills are fostered through interactive ASL lessons without voice. Three credit hours.

**INTR 1321 American Sign Language II**

Prerequisite: INTR 1320 with a grade of C or greater. An intermediate ASL course progressing from common, concrete communicative events and interactions to language usage expressing abstract ideas. Emphasis is on the comprehension and production of increasingly complex linguistic structure focusing on dialogues and conversational expressions. More complex receptive and expressive skills are fostered through interactive ASL lessons without voice. Three credit hours.

**INTR 1340 Deaf Culture**

An interdisciplinary study of American deaf culture and the factors that contribute to defining the Deaf Community as a cultural minority, focusing on an awareness and understanding of cultural diversity and preservation of language. Covers the cultural identity, group norms, rules of social interaction, values, and traditions held by members who are deaf. Societal attitudes regarding deafness and issues such as cultural oppression and language power by the majority culture will be discussed, as well as the contributions of folklore, literature, plays and works of art made by persons who are deaf to the larger American culture and to their own community organizations. The impact of modern technology, emerging issues, trends, and advocacy with the Deaf Community are presented. Three credit hours.

**INTR 2240 Specialized Terminology**

Prerequisite: Interpretation 2320, or permission of program coordinator. Students will acquire skills and vocabulary for interpreting in specialized settings such as medical, mental health, legal, rehabilitation, counseling, technical and religious fields. Emphasis is on acquisition of specific terminology, concepts and protocol in each area. Two credit hours.

**INTR 2280 Fingerspelling**

Prerequisite: INTR 1320. A course designed to develop expressive and receptive fingerspelling skills. Emphasis will be on whole-word and phrase recognition, as well as on reading fingerspelling embedded in signed sentences. Expressive skills will focus on attainment of normal speed, clarity, and fluency. Extensive interaction and drills with the instructor-student(s) will enhance receptive and expressive speed and skill. Videotaped fingerspelling lessons of varying speeds embedded in sentences will be utilized for practice of receptive comprehension. Two credit hours.

**INTR 2320 American Sign Language III**

Prerequisite: INTR 1321 with a grade of C or greater. This course is a continuation of the Signing Naturally curriculum. Emphasis is on the development of fluent conversational skills utilizing grammatical non-manual signals and markers. Students will learn how to narrate, describe, compare, and comment. Videotaped narratives of native language users are utilized to build students’ comprehension skills and to review language features taught in class. Interactive ASL lessons without voice lead to expanded vocabulary mastery and fluency. Three credit hours.
INTR 2321 American Sign Language IV
Prerequisite: INTR 2320 with a grade of C or greater. An advanced ASL performance course integrating cultural and linguistic competencies ranging from informal to formal communication events. Emphasis is on greater fluency in idiomatic language usage and mastery of vocabulary and syntax. Linguistic competence is enhanced through interactive discourse with native language users. Three credit hours.

INTR 2330 Manually Coded English in Educational Settings
Prerequisite: INTR 1321. Designed to expose students to a variety of signed English systems. Students learn the rules governing the selection of signs and the rationale for sign language systems in the educational setting. Focus is on learning Signing Exact English (SEE II) as adopted by educational systems and state schools for the deaf. Three credit hours.

INTR 2344 Comparative Linguistics: ASL and English
Prerequisite: INTR 2320, 2330. This course introduces students to the basic concepts of linguistics: phonology, morphology, syntax, and language use. Students will compare and contrast the fundamental linguistic structures of American Sign Language and English and learn to think critically about languages and language use. Three credit hours.

INTR 3320 American Sign Language V
Prerequisites: The completion of an Associate of Science in American Sign Language Studies, and an Intermediate level on the Signed Communication Proficiency Interview (SCPI). Corequisite: INTR 3344. This is an advanced ASL performance course integrating cultural and linguistic competencies ranging from informal to formal communication. Emphasis is on fluency in idiomatic language usage and mastery of vocabulary and syntax. Linguistic competence is enhanced through interactive discourse with native language users. Three credit hours.

INTR 3344 Interpretation Theory and Process
Prerequisite: INTR 2342. Corequisite: INTR 2321. This course uses a process-oriented approach to applying the essential cognitive strategies to interpretation. These strategies include organizing and manipulating visual images, analyzing message for meaning, and self-monitoring for message accuracy. The course serves as a transition from language learning to beginning interpretation from American Sign Language to English. Three credit hours.

INTR 3346 Introduction to Interpreting
Prerequisites: The completion of an Associate of Science in American Sign Language Studies. Designed to provide students with a working knowledge of the profession of interpreting, including the Code of Professional Conduct, certification criteria, the roles and responsibilities of an interpreter, and compensation. Discussions of the role of the interpreter in a variety of professional settings including educational, medical, legal, rehabilitation and mental health. Three credit hours.

INTR 3350 Artistic Interpreting in Educational Settings
Prerequisite: INTR 1321. Designed to teach students the skills needed to interpret music, prose, poetry, and drama in a visually artistic manner. Emphasizes appropriate use of conceptually accurate signs, facial expression, movement, and rhythm. Three credit hours.

INTR 3364 Sign to Voice Interpreting/Transliterating
Prerequisite: Interpretation 3320, 3344, 3346. Designed to develop skills in sign to voice interpreting for persons who are deaf. Students will learn to voice simultaneously and consecutively when viewing videotapes of native signers who use a variety of signing modalities to communicate. Audiotapes provide students with immediate feedback. Three credit hours.

INTR 3366 Voice to Sign Interpreting/Transliterating
Prerequisites: INTR 3320, INTR 3344 and INTR 3346. Designed to develop interpreting and transliterating skills through the use of interactive videotapes and audiotapes. Students will also learn to select and assess appropriate modality and language levels. Emphasis will be on the process of interpreting and developing fluency, speed, and accuracy. Three credit hours.

INTR 3372 Interpreting for Persons who are Hard of Hearing
Prerequisite: INTR 3346. A study of the mechanics of and skills needed for interpreting for persons who are deaf and hard of hearing and use assistive listening technology, oral transliterating, Cued Speech, or speech to text services. Students will develop and practice appropriate techniques necessary for interpreting for persons who are deaf and hard of hearing, who do not know sign language and who use the above methods for communication. Three credit hours.

INTR 3380 Introduction to Interpreting Research
Prerequisite: INTR 2350, INTR 2344, or permission of the program coordinator. This course is designed to introduce students to the process of conducting research, quantitative and qualitative methods of data collection and analysis, and the process of reporting research results. Students will learn ethical practices in the conduct of research. Students will critically evaluate research in the fields of sign language linguistics and spoken and sign language interpreting research. Three credit hours.

INTR 4102, 4202, 4302 Workshop
Special topics. One, two, or three credit hours.

INTR 4108, 4208, 4308 Independent Study
Prerequisite: consent of coordinator. Special topics. One, two, or three credit hours.

INTR 4330 Interpreting I
Prerequisite: The completion of INTR 3364, 3366, QAST Level I/1 or equivalent interpreting credential. This course is an intermediate level interpreting skills course designed to enhance both linguistic competencies and interpreting skills. This course is divided into four 3-week blocks with each block focusing on a specific topic/setting. Business practices regarding self-employment and record keeping will be infused into each learning block. Students will practice specialized vocabulary, participate in simulated interpreting experiences, apply ethical decision making, tour environments and interact with professionals from targeted settings: medical, video relay/employment, social services, religious and business. Three credit hours.

INTR 4332 Interpreting II
Prerequisite: INTR 4330, INTR 4370. This course is an advanced level interpreting skills course designed to enhance both linguistic competencies and interpreting skills. This course is divided into four 3-week blocks with each block focusing on a specific topic/setting. Business practices regarding self-employment and record keeping will be infused into each learning block. Students will practice specialized vocabulary, participate in simulated interpreting experiences, apply ethical decision making, tour environments and interact with professionals from targeted settings: video relay and video remote interpreting, government agencies, mental health and legal. Three credit hours.

INTR 4346 Principles of Educational Interpreting
Prerequisite: Interpretation 3380, QAST Level I/1 or equivalent, or permission of program coordinator. Issues related to interpreting in classrooms at the elementary, secondary, and postsecondary levels. Students will analyze the major transitions from childhood to adolescence to adulthood and the changes required in professional roles, responsibilities, and ethical decision-making. Topics will include: working with children and adolescents, their parents, and educators; sign systems used in educational settings; educational goals and language policies; certification issues; working conditions; analyzing classroom interpreting tasks; and knowledge, skills, and attitudes needed for educational interpreting. Three credit hours.
INTR 4358 Interpreting for Persons who are Deaf-Blind
Prerequisites: INTR 3364, INTR 3366, QAST 1/1 or equivalent. Students will study the major causes of deaf-blindness and the impact of deaf-blindness on communication, mobility and life styles. Emphasis is on learning and practicing the various modes of communication used by persons who are deaf-blind for interpreters and intervenors. Students will become familiar with human guide techniques and the aids and devices available to persons who are deaf-blind. Tactile forms of communication will be emphasized during role play situations. A service-learning component will provide the opportunity to apply classroom knowledge and skills in real life situations, while meeting community need. Reflective discussion and writing is emphasized throughout the course. Three credit hours.

INTR 4370 Ethical Standards for Interpreters
Prerequisites: INTR 3364, 3366 and QAST Level 1/1, or permission of program coordinator. A course designed to teach and practice a model for ethical decision making within the field of interpretation. Students will study codes from international interpreting organizations, the NAD-RID Code of Professional Conduct, the QAST Code of Ethics, and the Arkansas Code for interpreters in the judiciary. The RID Ethical Practices System will be reviewed. Various interpreting scenarios presenting ethical dilemmas will be discussed and/or role-played applying the Humphrey/Alcorn Decision-Making Model to the NAD-RID Code of Professional Conduct. Three credit hours.

INTR 4380 Advanced Transliteration: English – English
Prerequisites: INTR 4330, 4370, QAST Level 1/1 or equivalent, or permission of program coordinator. Corequisite: INTR 4382. Restricted to students who have been admitted to the Interpretation program. Continuation of sign to voice and voice to sign transliterating skills development. Course includes practice in appropriate sign/spoken vocabulary selection, the matching or register in the formal setting, and quality voice production. Students will focus on transliterating signed/spoken English in highly technical situations and develop specialized vocabulary in areas typically utilizing transliterators. Three credit hours.

INTR 4382 Advanced Interpretation: ASL – English
Prerequisites: INTR 4330, 4370, QAST Level 1/1 or equivalent, or permission of program coordinator. Corequisite: INTR 4380. Restricted to students who have been admitted to the Interpretation program. Continuation of the interpretation process between ASL and English including application of process skills, contrastive ASL-English linguistics, contrastive cultural analysis, and teaming skills for the consecutive and simultaneous interpretation process. Designed to include practice of requisite skills and process tasks of increased complexity with unplanned and planned language samples, such as dialogues, monologues, interviews, and lectures from a variety of interpreting settings. Three credit hours.

INTR 4384 Interpreting Academic Subjects
Prerequisites: INTR 4330, 4370, 4346, QAST Level 1/1 or equivalent, or permission of program coordinator. Restricted to students who have been admitted to the Interpretation program. Acquisition of interpreting/translating skills across a variety of academic subjects commonly taught in elementary through post-secondary settings. Emphasis on incorporating and pairing conceptually accurate sign usage within a variety of English-bound sign systems, as well as acquisition of specialized sign vocabulary for academic content areas. Three credit hours.

INTR 4770 Internship
Prerequisites: Completion of all B.A. requirements. Practical experience in settings such as educational, rehabilitation, community service centers, and agencies serving children, adolescents, and/or adults who are deaf or hard of hearing. Designed to provide students with the opportunity to synthesize practical and academic experiences gained during the in-residence portion of the program. The site, supervision, and plan of activity will be agreed upon mutually by student and instructor before the semester begins. Seven credit hours.
TDHH 4301 Foundations of Education for Deaf and Hard of Hearing Students
This foundational course is a broad-based introductory course to the profession of teaching students who are deaf or hard of hearing. This course articulates the historical background, philosophical approaches, and current trends, problems, and issues in the education of the deaf and hard of hearing. An overview of the psychological, emotional, and educational problems of the deaf and hard of hearing is included. Knowledge of contemporary educational processes and programs for deaf or hard of hearing infants, children, and adolescents are incorporated into the course content. Dual-listed in the UALR Graduate Catalog as TDHH 5301. Three credit hours.
DEPARTMENT OF TEACHER EDUCATION

Dickinson Hall, Room 300A | (501) 569-3124 | (501) 569-3023 | fax (501) 569-8242 | ualr.edu/teacher

Interim Chairperson:
Hune, Jennifer B., Associate Professor

Professor
Dorn, Linda J.

Associate Professors
Burgin, John S.
Cellitti, Anarella.
Hayn, Judith
Hunt, Andrew
Lindsay, Anne C.
Nolen, Amanda L.
Wood, Betty K.

Assistant Professors
Bennett, Sheri
Clemmons, Karina
Fetterly, James
Sedivy-Benton, Amy

The Department of Teacher Education offers two bachelor of science in education (B.S.E.) degrees, the B.S.E. in early childhood education and the B.S.E. in middle childhood education, which includes specialties in math/science and social studies/language arts. A minor in secondary education is offered through the teacher education department as well. For details about secondary education licensure content areas, see the licensure officer in the College of Education.

The department strives to provide balanced teacher education programs that embody institutional and college goals, the Arkansas Department of Education teacher licensure requirements, guidelines of learned societies and professional associations, and contemporary educational philosophies and practices.

General Information

The department also offers master of education degrees (M.Ed.) in curriculum and instruction, early childhood education, middle childhood education, reading, secondary education, and special education. The department offers a graduate certificate and an educational specialist degree (Ed.S.) in Reading, and a Ph.D. in Reading. Secondary Education, Middle Childhood, and Early Childhood also offers an initial licensure programs at the graduate level for students already holding bachelors degrees who desire teacher licensure. More information about the graduate level programs may be obtained from the department or from the UALR Graduate Catalog.

Bachelor of Science in Education Early Childhood Education

General: 129 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (1 hour)

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details) Recommended First Year Colloquium course is TCED 1100 Intro to Teaching and Learning.

Core (44 hours)

(Must be completed before admission into this program as well as passing the Praxis 1 examination.)

See page 25 for requirement details.

Exit Requirements (see program requirements for specific exit requirements)

In order to graduate with a degree from a program in teacher education and to be licensed, students must meet all general graduation requirements and earn a grade of C or greater in all professional education courses. Documentation of successful completion of all required Praxis II examinations must be provided as a condition for graduation from the undergraduate early childhood program, middle childhood program, and the secondary education minor. Students must submit complete Praxis II exam scores to the College of Education as documentation of their successful completion of these tests.

Arkansas’ definition of program completers for Title II reporting purposes has been changed. It requires completion of a degree program and successful performance on all required sections of required tests.

Second Language Proficiency (6 hours)

3 hours of a second language and 3 hours of English as a Second Language. See page 26 for details.

Major (85 hours)

Floating Block (12 hours) State and National Accreditation Requirements that can be taken any time before graduation

Second Language, ASL, or ESL Requirement
3 hours of Arkansas History
HHPS 3330 Teaching PK – 5 Physical Ed
PVYS 2301 Intro to Poverty Studies

Program Courses (73 hours)

Block I (16 hours)
ECED 2200 Field Experience I
ECED 2300 Introduction to Early Childhood Education
ECED 2301 Language and Literature and Literacy I
ECED 2302 Child Growth and Development
TCED 4204 Educational Technology
ECED 3304 Integrated Science: Preschool and Primary

Block II (16 hours)
ECED 3200 Field Experience II
ECED 3300 Guiding Young Children
ECED 3301 Language, Literature, and Literacy II
LANG 4324 Teaching People of other Cultures
MATH 3380 Mathematics I for Early Childhood
MUED 3232 Early Childhood Music

Block III (17 hours)
ECED 3201 Field Experience III
ECED 3302 Language, Literature, and Literacy III
ARED 3345 Public School Art
MATH 3382 Mathematics II for Early Childhood
ECED 4399 Early Childhood Assessment
SPED 4301 Education of Exceptional Learners

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Block IV (12 hours)
ECED 4301 Internship Seminar I
ECED 4600 Internship I
ECED 4306 Early Childhood Social Studies

Block V (12 hours)
ECED 4307 Internship Seminar II
ECED 4901 Internship II

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Education
Middle Childhood Education
Language Arts/Social Studies Track

General: 136 minimum total hours, including a minimum 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit (See page 25 for requirement details.) TCED 1100 is recommended.

Core (44 hours)
See page 25 for requirement details. (It is recommended that RHET 1311, RHET 1212, HIST 1311, and HIST 1312 be taken before or concurrently with ARHA 2310 and ARHA 2311.)

Second Language Proficiency (6 hours)
6 hours of a second language or English as a second Language in any combination or level. See page 26 for details.

Major (83 hours)
Language Arts/Social Studies Specialty (21 hours)
Language Arts (9 hours)
RHET 3301 Editing for Usage, Style & Clarity
RHET 3 hours of 3000 or higher
3 hours of Literature
Social Studies (12 hours)
POLS 1310 American National Government
HIST 4355 History of Arkansas
GEOG 1311 Introduction of Physical Geography OR INST 2301 World Cultures
ECON 3 hours of 3000 or higher
Self-contained Classroom Preparation (3 hours)
MATH 1302 College Algebra or 1315, College Mathematics (Whichever is not taken for core.)

Block I Intro to the Profession (13 hours)
MATH 3383 Mathematics for the Middle School
MCED 3303 Middle Level Philosophy, Trends, Family & Community
SCED 4321 Teaching Diverse Adolescents
MCED 3303 Curriculum and Planning
MCED 3105 Field Experience I

Block II Curriculum Applications (19 hours)
IGSC 4401 Integrated Science Methods
MATH 3384 Concepts of Geometry

MCED 3310 Middle Level Literacy and Literature
MCED 3430 Integrated Middle Level Curriculum
SPED 4301 Education of Exceptional Learners
MCED 3240 Field Experience II

Summer Course (3 hours)
EDFN 3304 Assessment in the Middle School Curriculum

Block III Professional Practicum I (15 hours)
MCED 4330 Classroom Management
MATH 4380 Concepts in Probability and Statistics
MCED 4120 Licensure Seminar
MCED 4310 Middle Level Content Literacy
MCED 4501 Internship I

Block III Professional Practicum I (12 hours)
TCED 4320 Interactive Technology for Middle School
MCED 4303 Professional Seminar
MCED 4602 Internship II

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Education
Middle Childhood Education
Math/Science Track

General: 136 minimum total hours, including a minimum 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit (See page 25 for requirement details.) TCED 1100 is recommended.

Core (44 hours)
See page 25 for requirement details. (It is recommended that RHET 1311, RHET 1212, HIST 1311, and HIST 1312 be taken before or concurrently with ARHA 2310 and ARHA 2311.)

Second Language Proficiency (6 hours)
6 hours of a second language or English as a second Language in any combination or level. See page 26 for details.

Major (62 hours)
Math/Science Specialty (21 hours)
Mathematics (9 hours)
MATH 1303 Trigonometry
MATH 2310 Discrete Math
MATH 1451 OR MATH 1342 OR MATH 1311
MATH 1302 College Algebra
Laboratory Science (12 hours)
4 additional hours of Science
8 hours of Science NOT taken in the core
State Department Requirement (3 hours)
HIST 4355 History of Arkansas
Block I Intro to the Profession (13 hours)
MATH 3383 Mathematics for the Middle School
MCED 3301 Middle Level Philosophy, Trends, Family & Community
SCED 4321 Teaching Diverse Adolescents
MCED 3303 Curriculum and Planning
MCED 3105 Field Experience I

Block II Curriculum Applications (19 hours)
IGSC 4401 Integrated Science Methods
MATH 3384 Concepts of Geometry
MCED 3310 Middle Level Literacy and Literature
MCED 3430 Integrated Middle Level Curriculum
SPED 4301 Education of Exceptional Learners
MCED 3240 Field Experience II

Summer Course (3 hours)
EDFN 3304 Assessment in the Middle School Curriculum

Block III Professional Practicum I (15 hours)
MCED 4330 Classroom Management
MATH 4380 Concepts in Probability and Statistics
MCED 4120 Licensure Seminar
MCED 4310 Middle Level Content Literacy
MCED 4501 Internship I

Block III Professional Practicum I (12 hours)
TCED 4320 Interactive Technology for Middle School
MCED 4303 Professional Seminar
MCED 4602 Internship II

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Courses in Reading (READ)
READ 0310 College Reading
A combined lecture/reading lab course designed to improve reading vocabulary and comprehension strategies needed for success in college. Students required to take this course must complete it satisfactorily before enrolling in RHET 1312 Composition II. A, B, C, NC. Three credit hours.

READ 1310 College Study Skills
Prerequisite: READ 0310 if required. Provides practical instruction in skills needed for success and retention in college. Three credit hours.

READ 1311 Reading for Academic Content
Prerequisite: READ 0310 if required. A combination laboratory and lecture course designed for students who want practical information on improving their reading rate and comprehension. Students will be introduced to scholastic reading strategies and methods for use in their other college courses. Three credit hours.

Courses in Early Childhood Education (ECED)
ECED 2200 Field Experience I
This field experience will acquaint candidates with a variety of preschool or kindergarten experiences. Candidates will be oriented to the structure of school district, the school, and the classroom setting. Students are placed with a cooperating teacher in a pre-K or Kindergarten classrooms for the full day each Friday for 13 weeks. Candidates are required to submit a “field reflection” each week to their University Supervisor, and organize a “field notebook” with the required items. Two credit hours.

ECED 2300 Introduction to Early Childhood Education
Prerequisites: admission to early childhood education program. Students are introduced to the early childhood education profession. The history and current issues in early childhood education are explored. Infant, toddler, preschool, kindergarten, and primary education are explored from a developmentally appropriate practice perspective. The concepts of inclusion, interaction of family, community, school, and multiculturalism are explored in the context of legal and ethical considerations. Three credit hours.

ECED 2301 Language and Literature and Literacy I
Prerequisites: admission to early childhood education program and concurrent enrollment in ECED 2200. Students will become acquainted with the value of literature shared in active learning environments, especially designed for young children. The course includes an extensive view of literature written for children from birth through age eight with an examination of developmentally appropriate ways to interact with children about books and stories. Students will develop activities and implement them in a field placement. Three credit hours.

ECED 3200 Field Experience II
Candidates spend one full day a week in a classroom with young children in grades 1 or 2 for 14 weeks. They are expected to complete assignments from ECED 3301 Literacy II, MATH 3380 Math I, ECED 3300 Guidance, and ECED 3304 Science Methods. Two credit hours.

ECED 2302 Child Growth
Prerequisites: admission to early childhood education program and concurrent enrollment in ECED 2200. Study of environmental and hereditary influences on cognitive, affective, and psychomotor development of typically and atypically developing children from birth to adolescence. Students consider both predictable developmental patterns and unique patterns due to sexual, socioeconomic, cultural, and normal variations in inherited characteristics. Students observe, record, and analyze behavior and development of children in an educational setting. Concurrent enrollment in ECED 2200 is required. Four credit hours.

ECED 3201 Field Experience III
Candidates spend one full day a week in a classroom with young children in grades 3 or 4 for 14 weeks. They are expected to complete assignments from ECED 3302 Literacy III, ECED 4309 Assessment, ARED Public School Art, MATH 3382 Math II, and SPED 4301 Education of Exceptional Learners. Candidates are required to submit a “field reflection” each week to their University Supervisor. Two credit hours.

ECED 3300 Guiding Young Children
Prerequisites: admission to early childhood education program and 2302 Child Growth. Students will learn theoretical bases and developmentally appropriate practices in guiding young children toward socialization and self-discipline. They will also learn how to design and maintain effective learning environments in a multicultural setting. Students will apply guidance strategies in field placement and design a developmentally appropriate guidance and classroom management plan. Three credit hours.
ECED 3301 Language, Literature, and Literacy II
Prerequisites: admission to early childhood education program and ECED 2301 Language and Literature and Literacy I. Literacy I focuses on the foundations of emergent and early literacy in a natural learning environment for preschool through early primary. Emphasis will be given to learning to teach through the components of a balanced literacy program with special attention placed on designing and managing literate environments, appropriate book selection, language development activities, and using observational assessment strategies to guide instruction. Three credit hours.

ECED 3302 Language, Literature, and Literacy III
Prerequisites: admission to early childhood education program and ECED 3301 Language and Literature and Literacy II. This course parallels Literacy II, but addresses the needs of children at a higher literacy level. Literacy III focuses on the foundations of early and fluent stages of literacy in a natural learning environment for second grade through fourth grade children. Emphasis will be given to learning to teach through the components of a comprehensive literacy program with special attention placed on designing and managing literate environments, appropriate book selection, word building activities to promote visual processing strategies, comprehension development, and using observational assessment strategies to guide instruction. Three credit hours.

ECED 3304 Integrated Science
Prerequisites: admission to early childhood education program and concurrent enrollment in ECED 2200. Students will be acquainted with the standards for science in early childhood developed by the State of Arkansas and by the American Association for the Advancement of Science. Developmentally appropriate content and teaching strategies for preschool and primary grade science and their underlying theoretical bases will be presented. Students will be expected to develop activities and units and to implement them in a field placement. Three credit hours.

ECED 4301 Internship Seminar I
This seminar is designed to teach advanced strategies in guidance, teaching, planning and professionalism. The course will review material previously covered in the program of study and explore it at a more complex level. Particular attention is focused on the teacher as decision-maker and the link between assessment and pedagogical decision-making. All aspects of the class will ask students to connect the course content to their daily experiences in their internship classroom. A major assignment in the course will be to write detailed lesson plans for the week in their internship when they will be responsible for all classroom planning and teaching. Three credit hours.

ECED 4306 Early Childhood Social Studies
This course provides the opportunity for students to analyze and develop integrated curricula in social studies from a variety of historical and current perspectives, within the context of professional, state and local standards. Students integrate knowledge from the six disciplines of social studies (history, anthropology, sociology, political science, geography, and economics) into the design of a constructivist, inquiry-based social studies curriculum. The course explores ways children come to learn about themselves and others. There is an emphasis on meeting the needs of all children, including attention to diverse linguistic and cultural backgrounds, and different learning abilities and styles. Three credit hours.

ECED 4399 Early Childhood Assessment
A study of fundamental observation, assessment, and evaluation concepts and tools. Emphasis placed on both qualitative and quantitative methods of reporting student progress. Principles of classroom test construction, alternative assessment techniques, and measurement strategies at various developmental levels will be addressed. Students will learn to accurately interpret standardized test results and be exposed to ethical and legal considerations surrounding use and reporting of assessment results. Three credit hours.

ECED 4307 Internship Seminar II
Prerequisites: completion of the Teaching the Curriculum semester and simultaneous enrollment in ECED 4901: Internship II. The Professional Seminar follows the student’s completed field experience. Topics include analysis of field experiences; review of legal issues affecting educational practice; preparing for job interviews; preparation for the first teaching year; maintaining a professional portfolio to demonstrate growth; reflecting on personal development; and meeting the Arkansas Teacher Licensure Standards. Concurrent enrollment in ECED 4602 Internship II is required. Five credit hours.

ECED 4399 Early Childhood Assessment
A study of fundamental observation, assessment, and evaluation concepts and tools. Emphasis placed on both qualitative and quantitative methods of reporting student progress. Principles of classroom test construction, alternative assessment techniques, and measurement strategies at various developmental levels will be addressed. Students will learn to accurately interpret standardized test results and be exposed to ethical and legal considerations surrounding use and reporting of assessment results. Three credit hours.

ECED 4600 Internship I
Concurrent enrollment in ECED 4301 Internship Seminar I is required. The internship semester is designed for candidates to observe, participate and gradually assume complete responsibility for the classroom. They will plan, teach, and reflect on their classroom experience. Candidates will plan and implement modifications for children, including accommodation for ability level, exceptionalities, language and cultural differences. Inclusion of technology in their lessons is expected. Six credit hours.

ECED 4901 Internship II
Concurrent enrollment in ECED 4307 Internship Seminar II. The internship semester is designed for candidates to observe, participate and gradually assume complete responsibility for the classroom. They will plan, teach, and reflect on their classroom experience. Candidates will plan and implement modifications for children, including accommodation for ability level, exceptionalities, and language and cultural differences. Inclusion of technology in their lessons is expected. Development is required. Six credit hours.

Courses in Middle Childhood Education (MCED)

MCED 3105 Field Experience I
This field experience will acquaint students with a variety of middle school experiences, and provide a 40 hour experience in a middle school classroom. Students will be oriented to the structure of a school district, the school, and the classroom setting. All concurrent courses in the Introduction to the Profession block will include assignments or specific tasks to be completed by students during the 40 hour classroom placement in this field experience. One credit hour.
MCED 3240 Field Experience II
Prerequisite: admission to the middle childhood teacher licensure program and successful completion of MCED 3105. This field experience will focus on working with students in small groups. Students will spend time in a middle school classroom working with students. Students will be expected to complete assignments related to all concurrent courses during the classroom placement. During this field experience students will continue to develop their professional portfolio and community resource file. Three credit hours.

MCED 3301 Middle Childhood Education, Family, and the Community
Prerequisite: admission to the teacher education program. Corequisite: MCED 3105. Presents strategies for working with families, state agencies, and community organizations from a middle childhood perspective. Information is provided about the nature, history, and philosophy of middle childhood education; the organization and structure of middle schools; teacher advisory systems; morally responsive teaching; teaching teams; multiculturalism; and diversity. Three credit hours.

MCED 3303 Middle Childhood Curriculum and Planning
Students will be oriented to the scope of the middle grades curriculum, varying patterns of curriculum organization, activities, and transition based teaching and general problem solving for instructional planning assessment and management. Introduction of the materials and various technology media used in teaching at the middle level. Field based experience required. Three credit hours.

MCED 3310 Middle Level Literacy and Literature
Provides the student with a broad perspective of literature and literacy instruction for middle school students with language as a central focus of study. Emphasis on exploring ways of engaging adolescents in meaningful literacy learning. Specific focus on differentiating instruction and integrating adolescent literature and writing throughout the curriculum. Involves preparation and evaluation of assessment and teaching procedures and strategies and a review of background information related to the reading process. Three credit hours.

MCED 3320 Integrating Curriculum: Language Arts and Social Studies
Prerequisite: admission to the middle childhood education program and completion of RHET 1311, 1312; SPCH 1300; HIST 1311, 1312; HIST 2311 or 2312; POLS 1310; a three-hour literature course; a three hour geography course; and completion of the Introduction to the Profession block. This course facilitates the understanding of how to teach social studies and language arts through an integrated approach in the most effective way to children in the middle grades. Instructional techniques that teach students how to involve children in social, interactive learning will be presented. Students will plan for and provide developmentally appropriate hands-on experiences with appropriate materials and the supportive environment necessary for children’s meaningful exploration and discovery and will implement those experiences in a field placement. Students will also be required to conduct assessments of learning. Three credit hours.

MCED 3330 Integrating Curriculum: Science and Mathematics
Prerequisites: admission to the middle childhood education program and completion of eight hours of science and nine hours of mathematics. Corequisite: MCED 3240. Emphasizes integrated mathematics and science content and how to teach this content to middle level children. The student should use the content to develop thematic concepts, which are implemented through the methodologies of inquiry based, hands-on learning with the use of manipulatives. Students utilize the internet and technology as an integrative tool to develop pedagogical techniques and materials in relation to whole course design with cross-disciplinary focus and active student involvement. Three credit hours.

MCED 3402 Middle Childhood and Early Adolescent Development and Learning
Corequisite: MCED 3105 Field Experience I. A study of the hereditary and environmental influences on the cognitive, emotional, physical, sexual, and social development of children from birth through adolescence with a special emphasis on their pre- and early adolescent development. The impact of the broader culture and atypical development will also be part of the course’s focus. Students observe, record, and analyze behavior and development of children in an educational setting. Four credit hours.

MCED 4120 Licensure Seminar
A review of educational psychology, assessment, motivation, and student expectations. Classroom scenarios requiring application of teacher decision-making skills and classroom management strategies will be presented. In addition, students will analyze case studies. Prepares students for the Praxis II examination; in order to pass this seminar, students must attain the standard set by the Arkansas State Board of Education. One credit hour.

MCED 4501 Internship I
Prerequisites: admission to middle childhood education program and completion of the Introduction to the Profession and Curriculum Applications semesters. Corequisites: MCED 4310 and 4330. Classroom observation and participation in classroom routines with gradual assumption of complete classroom teaching responsibilities. Students plan, teach, and reflect on the total experience. Students make accommodations for children with special needs. All of the school resources are used, and competence in using technology is required. Three credit hours.

MCED 4303 Professional Seminar
Corequisite: MCED 4502. Part of final semester, Professional Practicum II. Presentations by College of Education faculty and practitioners in the field concerning such topics as legal issues affecting educational practice; family constellations; adolescent misbehavior; behavior analysis; discipline involving logical and natural consequences in place of rewards and punishments; and encouragement. Students create a professional portfolio, and submit a senior exit project utilizing interactive technology. Students learn how to prepare for job interviews; what to expect the first teaching year; how to maintain a professional portfolio to demonstrate growth; how to reflect on personal development; and what is involved in meeting the Arkansas Teacher Licensure Standards. Four credit hours.

MCED 4310 Middle Level Content Literacy
Emphasis on the development of reading in the content areas for middle school students. Focus on the concepts of developing meaningful literacy experiences for adolescents of all ability levels, with a continued focus on language and literature as an integral part of the curriculum. Involves a study of major theories and current teaching strategies in literacy for adolescents. Evaluation and assessment strategies explored. Three credit hours.

MCED 4430 Classroom Management
Emphasizes fundamental principles underlying middle childhood developmental programs in middle level grades, including creation of and fostering of classroom management techniques and strategies for the design of environments, which are conducive to a safe place for teaching, learning, and connecting the community to the school for effective discipline and parental support and involvement. Four credit hours.

MCED 4602 Internship II
Prerequisites: admission to the middle childhood education program and the successful completion of Internship I. Corequisite: concurrent enrollment in TCED 4320. The final field placement course. Students plan, teach, and reflect on the experience. Students responsible for all aspects of the classroom environment including making accommodations for children with special needs. All of the school resources will be used, and competence in using technology is required. Five credit hours.
Courses in Secondary Education (SCED)

SCED/IGSC 1101 FE: Step 1-Inquiry Approaches to Teaching
An introduction to the theory and practice necessary to design and deliver quality inquiry-based science and mathematics instruction that provides the scaffold for the early field experience. In this one-hour credit course, the UALRTeach instructor or master teacher and the elementary school mentor teacher emphasize both inquiry and classroom management techniques. This course satisfies the first-year colloquium requirement. Step 1 invites candidates to explore teaching as a career. With the guidance of the instructor, in Step 1, candidates teach science or math lessons in upper elementary classrooms to obtain firsthand experience with planning and implementing inquiry-based curriculum. Master teachers teach Step 1, so candidates have direct access to accomplished teachers holding certificates who love teaching and who believe that teaching is a rewarding career choice. Local public school elementary classrooms provide the future teachers with a first taste of teaching in a supportive, diverse environment. Candidates shall be required to submit to a criminal background check.

SCED/IGSC 1102 Inquiry-Based Lesson Design (Step 2)
Prerequisite: SCED/IGSC 1101. This course (Step 2) continues the exploration of teaching careers in a middle school environment that began in SCED/IGSC 1101 (Step 1). In this one-hour credit course, students observe a lesson taught by a middle school mentor teacher, and then plan and teach three inquiry-based middle school lessons with a partner. Students build on and practice lesson design skills developed in the Step 1 course while also becoming familiar with science or mathematics curricula for the middle school setting. Students demonstrate their own content knowledge in developing the lesson plans. As a result of their classroom experiences, students reflect on the observation and their teaching. At the end of the Step 2 experience, students are generally ready to make a decision about whether they want to pursue a pathway to teacher certification.

SCED 3383 Knowing and Learning
Prerequisites or Co-requisites: SCED/IGSC 1102 and admission to the secondary education minor for science and mathematics. The goal of this course is to develop a powerful tool kit of approaches to knowing and learning in mathematics and science. This course focuses on issues of what it means to learn and know science and mathematics. Topics covered will include: standards of knowing, structures for knowing and learning, cross-disciplinary learning, concepts of assessment, and utilities of technology. Three-credit hours.

SCED 3384 Classroom Interactions
Prerequisites: SCED/IGSC 1102 grade of C or greater and admission to the secondary education minor for science and mathematics. An important focus of the course is on building awareness and understanding social equity issues and their effects on learning. Candidates are provided with frameworks for teaching students of diverse backgrounds equitably. Classroom Interactions is centered around a close examination of the interplay between teachers, students, and content, and how such interactions enable students to develop deep conceptual understanding. Three-credit hours.

SCED 4385 Perspectives
Prerequisites: SCED/IGSC 1102 and admission to the secondary education minor for science and mathematics. Perspectives on Science and Mathematics explores a selection of topics and episodes in the history of science and mathematics. The course illustrates how knowledge has often emerged through many struggles, against obstinate resistance, and within cultural, religious, and social structures. Candidates are brought to understand that science is not merely a body of facts, theories, and techniques; science involves diverse processes by which it is continually generated and reformulated.

SCED 4387 Project Based Instruction
Prerequisites: SCED/IGSC 1102 and admission to the secondary education minor for science and mathematics. Through a dynamic process of investigation and collaboration and using the same processes and technologies that scientists, mathematicians, and engineers use, candidates work in teams to formulate questions, make predictions, design investigations, collect and analyze data, make products and share ideas. Candidates learn fundamental science and mathematical concepts and principles that they apply to their daily lives.

SCED 4689 Apprentice Teaching
Prerequisite SCED/IGSC 1102. The purpose of the Apprentice Teaching course is to offer UALRTeach candidates a culminating experience that provides them with the tools needed for their first teaching position. In Apprentice Teaching, candidates are immersed in the expectations, processes, and rewards of teaching. Apprentice Teaching is comprised of field experience, teaching in local public secondary schools, and a weekly seminar, which brings apprentice teachers together with university master teachers to share experiences and work on solutions to problems they encounter in the field.

Courses in Special Education (SPED)

SPED 4214 Early Childhood Special Education Assessment Field Experience
Prerequisites: Admission to the Early Childhood Education Program and eligible for admission to Block III with a 2.65 GPA or greater. This is the first experience in a series of two supervised field experiences. During the 120 clock hour experience, candidate field practice emphasizes assessment and early intervention assessment activities related to child find/screening, translating assessment into activities in the intervention environment and assessments surrounding health and safety issues, children with health and/or sensory impairments, social development, and challenging behavior. Dual-listed in the UALR Graduate Catalog as SPED 5214. Two credit hours.

SPED 4216 Early Childhood Special Education: Inclusion Field Experience
This is a final experience in a series of supervised field experience designed for candidates in the Early Childhood Special Education emphasis. The experiences included in this 120 clock hour experience examine assessment to intervention activities related to all developmental domains, technology adaptations in intervention, the link between individualized intervention plans and instructional planning, and continuous documentation of child performance. Dual-listed in the UALR Graduate Catalog as SPED 5216. Two credit hours.

SPED 4301 Education of Exceptional Learners
Prerequisite: PSYC 2300 or consent of instructor. Introduction to the psychological, sociological, philosophical, legal, and educational implications of educating exceptional learners in the mainstream; the role of teachers, professionals, and parents as team members in providing appropriate education and necessary adaptations for exceptional learners. Dual-listed in the UALR Graduate Catalog as SPED 5301. Three credit hours.

SPED 4102, 4202, 4302 Workshop
Subjects vary. One, two, or three credit hours.

SPED 4306 Methods of Teaching Students with Mild Disabilities
Prerequisite: an introductory course in exceptional learners and/or characteristics of students with mild disabilities. Methods and materials for educating students with mild disabilities in regular and special education environments including behavior management, programming for secondary students with mild disabilities, career education, teacher-made materials, and commercially available materials appropriate for use with students with mild disabilities. Three credit hours.
SPED 4108, 4208, 4308 Independent Study
Prerequisite: consent of the department chairperson. An in-depth study of a selected problem or trend in special education for advanced students. One, two, or three credit hours.

SPED 4311 Behavior Management
Prerequisite: EDFN 2300. Positive approaches to behavior management. Students receive firsthand experience in using behavior analysis in field settings. Dual-listed in the UALR Graduate Catalog as SPED 5311. Three credit hours.

SPED 4312 Medical Problems in Child Development
Prerequisites: Admission to the Early Childhood Education Program and eligible for admission to Block III with a 2.65 GPA or greater. The primary concern of the course is to review medical conditions and events arising during prenatal, postnatal and early childhood, which contribute to the nature and cause of major educational disabilities. Special attention is given to syndromes associated with mental retardation, disorders of the central nervous system, infections disease, and a wide range of conditions placing children at-risk for developmental delays. Emphasis is directed toward early medical identification, prevention of secondary disabilities, and strategies for responding to chronic health conditions in educational settings. Guest lectures by physicians and other health related professionals are an integral part of the course. Dual-listed in the UALR Graduate Catalog as SPED 5312. Three credit hours.

SPED 4313 Early Childhood Special Education Assessment
Prerequisites: Admission to the Early Childhood Education Program and eligible for admission to Block III with a 2.65 GPA or greater. The first course in a two-course sequence addressing assessment and early intervention screening and assessment strategies for young children with disabilities, from birth through age eight. A specific focus will be given to the fundamental principles of and strategies for assessment, the role of well-baby and early intervention providers in screening and assessment process for disabilities. Candidates will learn to identify the needs of children related to health and/or sensory impairments, the identification of abilities in the developmental domains. Dual-listed in the UALR Graduate Catalog as SPED 5313. Three credit hours.

SPED 4315 Early Childhood Special Education: Methods of Inclusion
Prerequisites: Admission to the Early Childhood Education Program and eligible for admission to Block III with a 2.65 GPA or greater. This is the second course in a two-course sequence addressing intervention strategies for young children with disabilities, from birth through age eight. Specific attention is given to application of assessment principles into programming, the role of child find in providing services, the needs of young children with disabilities, and strategies for identifying behavioral support needs and techniques for fostering social-emotional development. Attention also will be given to methods of including children with disabilities in the general education setting. Dual-listed in the UALR Graduate Catalog as SPED 5315. Three credit hours.

SPED 4317 Introduction to Inclusion in Early Childhood Special Education
Prerequisites: PSYC 1300 or an introductory human development course, admission to the Early Childhood Education Program, and eligible for admission to Block III with a 2.65 GPA or greater; or consent of the instructor. Psychological, Sociological, philosophical, legal, educational implications of educating exceptional learners; necessary adaptations for exceptional learners in the mainstream setting; role of teachers, professionals, parents as team members providing education for exceptional learners. Dual-listed in the UALR Graduate Catalog as SPED 5317. Three credit hours.

Courses in Teacher Education (TCED)

TCED 1100 Introduction to Teaching and Learning
This course satisfies the First-Year Course requirements for first-year students and is an introduction to teaching and learning in American elementary and secondary schools. The course is open for all first-time students, but is especially applicable for those who may be considering a major or minor in education and teaching as a career. The course includes introductions to the field of education, current issues in teaching and learning in schools, and a service-learning project involving the teaching and learning of school-age students in the Little Rock area. One credit hours.

TCED 1104 Introduction to K-12 Computing
An organized approach to computing practices for K-12 educators. One credit hour.

TCED 1200 Orientation to Teaching
Provide opportunities for students to observe in educational settings at the early childhood (preschool and primary levels) and middle childhood/early adolescence levels. Acquiring of understanding of the nature of the profession and its responsibilities to determine whether they are prepared to make a commitment to this profession. Students assisted in completing applications to licensure programs during this semester, should they decide to continue. Two credit hours.

TCED 3250 Computer Applications in Middle School
Prerequisite: TCED 1104. Applications of technology in the educational setting with specific emphasis on integrating instructional technology into the middle school curriculum. Two credit hours.

TCED 4100, 4200, 4300 Workshop
Prerequisite: consent of instructor (based on student’s experience and course work in the educational area). Designed to provide an opportunity for pre-service and in-service teachers to explore areas of interest and prepare educational materials through a workshop format. One, two, or three credit hours.

TCED 4104 Electronic Portfolio Development
Prerequisites: LSTE 3105 and 3106. The technology skills needed to develop an electronic portfolio. Each student required to demonstrate design skills for incorporating audio, visuals, and motion. Each student produces an electronic portfolio utilizing a current computer multimedia software program and translate or convert that product into language compatible with the World Wide Web. LSTE 4104 is a part of the professional semester of the early childhood education program. Students enrolling in this course must be admitted to the professional semester. One credit hour.

TCED 4301 Introduction to Instructional Technology
Prerequisite: EDFN 2300. The selection, use, and creation of 10 different types of fundamental media software found on today’s educational institutions. The student is required to teach a single unit using media created within the media center laboratory. Three credit hours.

TCED 4320 Interactive Technology for Middle School
The production and application of Interactive Instructional units where the microcomputer is the controlling medium for such peripherals as CD-ROM players and web browsers. Three credit hours.

TCED 4600 Clinical Experience/Student Teaching
Prerequisites: 12 credit hours of education courses at UALR, admission to the professional semester. Provides supervised experience in school settings during which the student participates in planning classroom activities. During the semester, students return to campus periodically for additional lectures and demonstrations to refine instructional skills necessary for effective teaching. Six credit hours.
The mission of the Donaghey College of Engineering and Information Technology (EIT) is to educate the next generation of engineering, construction and IT professionals and prepare them to be successful and productive members of the workforce.

In meeting this mission, the College offers professional undergraduate degrees in Architectural & Construction Engineering, Civil and Construction Engineering, Computer Science, Construction Management, Engineering Technology, Information Science, and Systems Engineering with options in Mechanical, Electrical, Computer, and Telecommunications Engineering. Graduate students have the option to pursue a PhD in Integrated Computing or Engineering Science and Systems.

EIT also participates in the M.S.-Ph.D. program in Bioinformatics offered jointly with the University of Arkansas for Medical Sciences (UAMS). Additional graduate programs include an M.S. degree in Computer Science, a graduate certificate program and an M.S. degree in Information Quality as well as a graduate certificate program in Technology Innovation. EIT also offers a graduate certificate program and an M.S. degree in Systems Engineering.

General Information

Outreach to the community includes partnering with high schools across the state for in-school activities and summer programs held on the UALR campus. Specific emphasis is on partnerships with local and regional industries, including an extensive internship program, company-sponsored senior design projects and advisory council participation that provides direct industry input into EIT curricula.

EIT is committed to providing the engineering, construction and IT workforce that will build Arkansas’ future and to developing a quality faculty that can contribute both to our overall educational needs and to the intellectual base of the state. To accomplish these goals, EIT will work with all interested potential students to provide the necessary intellectual basis for them to be successful and will provide its faculty with facilities and resources to make major contributions to our state. We work closely with the UAMS and other educational institutions in the state and enhance our resources through the acquisition of external funds from federal agencies, private foundations, and other private enterprises.

EIT’s vision is to be the college of choice for students from the state who are interested in an engineering-, construction- or technology-based education; to have a faculty that is admired and respected regionally, nationally, and internationally; and to be the institution that area industries turn to for new employees and intellectual support for their growth strategies.

EIT Core Requirements

EIT has a core curriculum adapted to the needs of its engineering-, construction- and IT-oriented degrees. Each bachelor’s degree program requires a core that includes courses in communications, arts, humanities, history, and social sciences. Architectural and Construction Engineering, Systems Engineering, and Civil and Construction Engineering have a further modified core included in their sections of this catalog.

Note that some programs require specific courses within the choices listed in the chart; please check the curriculum lists for individual programs.

Core Requirements for Double Majors in EIT and Another Department

Either core is acceptable for a student pursuing a double major with one major in EIT and the other in a different college. However, should the student not complete the double major prior to a baccalaureate degree being awarded, the core required for the degree awarded must be completed. In all instances program requirements normally satisfied by a core course must be completed whether or not that course satisfies a core requirement for the student.(Approved by Undergraduate Council 10/13/99- EIT is referred to as CISSE in the original policy.)
<table>
<thead>
<tr>
<th>Departments</th>
<th>Programs</th>
</tr>
</thead>
</table>
| Department of Computer Science                  | • Associate of Science in Computer Programming  
• Bachelor of Science in Computer Science        |
| Department of Construction Management & Civil and Construction Engineering | • Bachelor of Science in Architecture & Construction Engineering  
• Bachelor of Science in Civil and Construction Engineering  
• Bachelor of Science in Construction Management |
| Department of Engineering Technology             | • Associate of Science in Electronics and Computer Engineering Technology  
• Associate of Science in Mechanical Engineering Technology |
| Department of Information Science                | • Bachelor of Science in Information Science  
• Bachelor of Science in E-Commerce               |
| Department of Systems Engineering                | • Bachelor of Science in Systems Engineering – Computer  
• Bachelor of Science in Systems Engineering – Electrical  
• Bachelor of Science in Systems Engineering – Mechanical  
• Bachelor of Science in Systems Engineering – Telecommunications |
The department offers courses covering a wide range of topics in computer science, including programming and programming languages, data structures and algorithms, assembly language, computer architecture, networking, operating systems, compilers, software engineering, file structures, database systems, graphics, artificial intelligence, and theory of computation.

The department seeks to prepare students both for careers in the computing industry and for advanced study in computer science. The department maintains close ties with local computing industries, and encourages its students to participate in the many cooperative and internship opportunities made available through these contacts.

General Information
The BS in Computer Science program is accredited by the Computing Accreditation Commission of ABET, http://www.abet.org.

Admission Requirements
Students seeking a degree in computer science must apply to the department for admission to the program. Application should be made after the student has completed MATH 1302 or higher with grades of C or greater and enrolled in CPSC 1375/1175. Upon admission the student will be assigned an advisor.

Degree Requirements
Major in Computer Science
Requirements for the B.S. degree in computer science include the core computer science and mathematics courses and upper-level electives selected from computer science.

Minor in Computer Science
The minor in computer science requires:
CPSC 1375 Programming I
CPSC 1175 Introduction to Computer Science Laboratory
CPSC 2376 Programming II
or CPSC 2377 Introduction to Game Programming
CPSC 2380 Data Structures and Algorithms
CPSC 2382 Introduction to Computer Systems and Assembly Language
CPSC 3380 Operating Systems
or CPSC 3370 Net-centric Computing: Systems Concepts
MATH 1451 Calculus I
and MATH 1452 Calculus II
or MATH 1311 Applied Calculus I
and MATH 1312 Applied Calculus II
One three-hour upper-level computer science course

Associate of Science in Computer Programming
The associate of science degree in computer programming requires at least 60 hours including the core computer science courses and approved electives selected from computer science, mathematics, statistics, accounting, management, and engineering technology. Approved electives are chosen via consultation with a Departmental advisor.

Approved Electives (23 hours)
Approved electives are chosen in consultation with a Departmental advisor.

Associate of Science Suggested Curriculum
Freshman Year
RHET 1311 Composition I
RHET 1312 Composition II
SPCH 1300 Speech Communication
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government
MATH 1302 College Algebra
MATH 1303 Trigonometry
CPSC 1375 Programming I
CPSC 2376 Programming II
or CPSC 2377 Introduction to Game Programming
CPSC 2380 Data Structures and Algorithms
CPSC 2382 Introduction to Computer Systems and Assembly Language
IFAS 2300 Introduction to Information Assurance
Approved electives (8 hours)

Sophomore Year
CPSC 2376 Programming II
or CPSC 2377 Introduction to Game Programming
CPSC 2380 Data Structures and Algorithms
CPSC 2382 Introduction to Computer Systems and Assembly Language
Approved electives (15 hours)
Bachelor of Science in Computer Science

General: 120 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (1 hour)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.
(See page 19 for details)
CPSC 1105 First Year Experience for Computer Science Majors

Core (29 hours)

Composition/Communication (9 Hours)
Rhet 1311 Composition I
Rhet 1312 Composition II
SPCH 1300 Speech Communication

Fine Arts/Humanities (5 Hours)
IFSC 2200 Ethics in the Profession

And choose one of the following:
MUHL 2305 Introduction to Music
ARHA 2305 Introduction to Visual Art
THEA 2305 Introduction to Theatre and Dance
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
PHIL 2320 Ethics and Society

Social Sciences (9 Hours)
Choose one of the following:
POLS 1310 American National Government
HIST 2311 U.S. History to 1877
HIST 2312 U.S. History since 1877

And choose one of the following:
ANTH 2316 Cultural Anthropology
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
GEOG 2312 Cultural Geography
GNST 2300 Introduction to Gender Studies
MCOM 2330 Mass Media and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introduction to Sociology

And choose one of the following:
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II

Additional Upper-Level Communications, Humanities, Arts, and Social Sciences (3 Hours)
Specific course selection must be done with the approval of the advisor.

Technical Writing (3 Hours)
RHET 3326 Technical Writing

Major (76 hours)

Additional Math courses (17 hours):
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2310 Discrete Mathematics
MATH 3310 Algebraic Structures
or MATH 3312 Linear Algebra
STAT 3352 Applied Statistics

Additional Science Courses (12 hours):
PHYS 2321 Physics for Scientists and Engineers I and
PHYS 2121 Physics for Scientists and Engineers I Laboratory
PHYS 2322 Physics for Scientists and Engineers II and
PHYS 2122 Physics for Scientists and Engineers II Laboratory
OR
CHEM 1402 General Chemistry I and
CHEM 1403 General Chemistry I
AND
Technical science course with laboratory

Additional Math/Science Elective (3 hours)
A minimum of 3 additional hours of mathematics or science courses for majors must be taken in addition to the requirements listed above.

Major Requirements (35 hours):
CPSC 1175 Introduction to Computer Science Laboratory 1
CPSC 1375 Programming I 1
CPSC 2376 Programming II 1
CPSC 2380 Data Structures and Algorithms 1
CPSC 2382 Introduction to Computer Systems and Assembly Language
CPSC 3370 Net-Centric Computing: Systems Concepts
CPSC 3371 Net-Centric Computing: Language Concepts
CPSC 3375 Database Concepts I
CPSC 3482 Computer Organization I
CPSC 4373 Fundamentals of Software Engineering
CPSC 4392 Capstone Project
IFSC 1310 Internet Technologies
IFSC 2200 Ethics in the Profession (Hours included in core)

Electives (9 hours):
Upper-level Computer Science courses with advisor approval

Minor (6-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours,
45 hours of upper-level courses (3000-4000 level), or 30 hours
in residence.

1. Students must receive a grade of C or greater in this class.
Bachelor of Science in Computer Science
Suggested Curriculum (120 hours)

First Semester, Fall (15 hours)
RHET 1311 Composition I
MATH 1451 Calculus I
HIST 1311 History of Civilization I
or HIST 1312 History of Civilization II
CPSC 1375 Programming I
CPSC 1175 Introduction to Computer Science Laboratory
CPSC/IFSC 1105 Freshman Experience

Second Semester, Spring (16 hours)
RHET 1312 Composition II
MATH 1452 Calculus I
CPSC 1310 Internet Technologies
CPSC 2376 Programming II
SPCH 1300 Speech Communication

Third Semester, Fall (16 hours)
MATH 2310 Discrete Mathematics
CPSC 2382 Introduction to Computer Systems and Assembly Language
CPSC 2380 Data Structures and Algorithms
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Laboratory
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government

Fourth Semester, Spring (15 hours)
Minor course (3 hours)
CPSC 3370 Net-centric Computing: Systems Concepts
CPSC 3375 Database Concepts I
PHYS 2322 Physics for Scientists and Engineers II
PHYS 2122 Physics for Scientists and Engineers II Laboratory
IFSC 2200 Ethics in the Profession

Fifth Semester, Fall (16 hours)
Fine Arts/Humanities core requirement (3 hours)
CPSC 3371 Net-centric Computing: Language Concepts
CPSC 3482 Computer Organization I
MATH 3310 Algebraic Structures I
or MATH 3312 Linear Algebra
Minor Course (3 hours)

Sixth Semester, Spring (15 hours)
RHET 3326 Technical Writing
Social Sciences core requirement (3 hours)
Upper-level CPSC elective (3 hours)
Math/Science Elective (3 hours)
Upper-level humanities core requirement (3 hours)

Seventh Semester, Fall (15 hours)
CPSC 4373 Fundamentals of Software Engineering
Unrestricted Elective (2 hours)
Upper-level CPSC elective (3 hours)
STAT 3352 Applied Statistics I
Technical science course with lab (4 hours)

Eighth Semester, Spring (12 hours)
Upper-level CPSC elective (3 hours)
CPSC 4392 Capstone Project
Upper-level Minor courses (6 hours)

Bachelor of Science in Computer Science—GAME

General: 120 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (1 hour)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.
(See page 36 for details)
CPSC 1105 First Year Experience for Computer Science Majors

Core (29 hours)
Composition/Communication (9 Hours)
RHET 1311 Composition I
RHET 1312 Composition II
SPCH 1300 Speech Communication

Fine Arts/Humanities (5 Hours)
IFSC 2200 Ethics in the Profession
AND
ARHA 2305 Introduction to Visual Art

Social Sciences (9 Hours)
Choose one of the following:
POLS 1310 American National Government
HIST 2311 U.S. History to 1877
HIST 2312 U.S. History since 1877
AND
CRJU 2300 Introduction to Criminal Justice

And choose one of the following:
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II

Additional Upper-Level Communications, Humanities, Arts, and Social Sciences (3 Hours)
Specific course selection must be done with the approval of the advisor.

Technical Writing (3 Hours)
RHET 3326 Technical Writing

Major (90 hours)
Additional Math courses (17 hours):
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2310 Discrete Mathematics
MATH 3310 Algebraic Structures
or MATH 3312 Linear Algebra
STAT 3352 Applied Statistics

Additional Science Courses (12 hours):
PHYS 2321 Physics for Scientists and Engineers I
and PHYS 2121 Physics for Scientists and Engineers I Laboratory
and PHYS 2322 Physics for Scientists and Engineers II
and PHYS 2122 Physics for Scientists and Engineers II Laboratory
OR CHEM 1402 General Chemistry I
and CHEM 1403 General Chemistry I
AND Technical science course with laboratory

Additional Math/Science Elective (3 hours)
A minimum of 3 additional hours of mathematics or science courses for majors must be taken in addition to the requirements listed above.
Major Requirements (58 hours):
- ARST 1310 Basic Drawing
- ARST 1315 Two-Dimensional Design
- ARST 2318 Computer Applications in Art
- ARST 3385 Vector Graphics for Illustrators and Designers
- ARST 3386 Digital Imaging for Illustrators and Designers
- ARST 4348 Production Design for the Internet
- CPSC 1175 Introduction to Computer Science Laboratory
- CPSC 1375 Programming I
- CPSC 2377 Introduction to Game Programming
- CPSC 2380 Data Structures and Algorithms
- CPSC 2382 Introduction to Computer Systems and Assembly Language
- CPSC 3370 Net-Centric Computing: Systems Concepts
- CPSC 3371 Net-Centric Computing: Language Concepts
- CPSC 3387 Simulation Methods
- CPSC 4366 Interactive Computer Graphics and Animation
- CPSC 4383 Artificial Intelligence
- CPSC 4392 Capstone Project
- IFSC 1310 Internet Technologies
- IFSC 2200 Ethics in the Profession (hours counted toward core)
- IFSC 2340 Human Computer Interface
- IFSC 3315 Applied Networking

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper level courses (3000-4000 level), or 30 hours in residence.

1. Students must receive a grade of C or greater in this class.

Bachelor of Science in Computer Science
Suggested Curriculum—GAME Option
(120 hours)

Fourth Semester, Spring (16 hours)
- ARST 1315 Two-Dimensional Design
- STAT 3352 Applied Statistics I
- MATH 3312 Linear Algebra
- HIST 1311 History of Civilization I
- or HIST 1312 History of Civilization II
- ARHA 2305 Introduction to Visual Art

Fifth Semester, Fall (16 hours)
- ARST 2318 Computer Applications in Art
- CPSC 3371 Net-centric Computing: Language Concepts
- CPSC 4383 Artificial Intelligence
- IFSC 3315 Applied Networking
- PHYS 2321 Physics for Scientists and Engineers I
- PHYS 2121 Physics for Scientists and Engineers II Laboratory

Sixth Semester, Spring (16 hours)
- ARST 3385 Vector Graphics for Illustrators and Designers
- CPSC 3370 Net-centric Computing: Systems Concepts
- CPSC 4366 Interactive Computer Graphics and Animation
- CPSC 3387 Simulation Methods
- PHYS 2322 Physics for Scientists and Engineers II
- PHYS 2122 Physics for Scientists and Engineers II Laboratory

Seventh Semester, Fall (14 hours)
- ARST 3386 Digital Imaging for Illustrators and Designers
- IFSC 2200 Ethics in the Profession
- CRJU 2300 Introduction to Criminal Justice
- HIST 2311 U.S. History to 1877
- or HIST 2312 U.S. History since 1877
- or POLS 1310 American National Government
- CPSC 4373 Fundamentals of Software Engineering

Eighth Semester, Spring (13 hours)
- ARST 4348 Production Design for the Internet
- CPSC 4392 Capstone Project
- Math / Science Upper-Level (3000-4000) Elective (3 hours)
- Core Technical Science with Lab (4 hours)

Information Assurance
The minor and technical certificate program in information assurance (IA) is designed to provide students with the knowledge and capacity to implement information security and to solve IA problems. The program goals are to heighten awareness of IA in the academic community, prepare graduates who are capable of evaluating IA situations, and contribute to finding appropriate solutions to IA problems.

For students who currently hold degrees in areas other than IA, the program provides the environment to develop their knowledge and capacity for implementing information security and to do research in the area. It will also benefit students who wish to supplement their educations with knowledge of how to evaluate and improve the security of data from both technical and social perspectives.

Minor in Information Assurance
The IA minor is not limited to students in the Donaghey College of Engineering and Information Technology (EIT). In addition to students in computer-related programs such as Computer Science, Information Science, or Systems Engineering, the minor is also designed to include those with interests in Criminal Justice or Business Management who may not have extensive backgrounds in computers, math, or technology.

Technical Certificate in Information Assurance
Students or working professionals who may or may not already have an undergraduate or graduate degree may elect to earn a Technical Certificate in Information Assurance. The technical certificate program is provided by the Department of Computer Science; contact the department chairperson for current information. The requirements for certification are the same as the minor program. Note: This graded certificate does not replace traditional certification programs such as the Certified Information Systems Security Professional (CISSP) certification.
Minor and/or Certificate in Information Assurance

The IA Minor and Technical Certificate in Information Assurance consist of 20 hours in seven courses. All courses must be completed with a grade of C or greater.

Students matriculating through colleges other than EIT must obtain written consent from the instructors before enrolling in a course offered by EIT.

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**Minor in Information Assurance Curriculum**

**Required Prerequisite (3 hours)**

IFAS 2300 Introduction to Information Assurance

**Core Courses (8 hours)**

CRJU 3309 Cyber Crime and the Law

IFAS 3300 Computer Forensics

IFSC 2200 Ethics in the Profession

**Computer Networking Course (3 hours)**

MGMT 4310 Local Area Networks

IFSC 3315 Applied Networking

CPSC 4384 Computer Networks

or CPSC 3370 Net-centric Computing: Systems Concepts

SYEN 3332 Communication Networks

**Database Course (3 hours)**

MGMT 4350 Business Database Management Systems

IFSC 3320 Database Concepts

CPSC 3375 Database Concepts I

SYEN 3360 Data Communications

**Approved Elective (3 hours)**

SYEN 3318 Decision and Risk Analysis

MGMT 4311 Security Issues and Advanced Topics in Network Technologies

IFSC 4339 Network Security

IFSC 4330 Database Security

IFSC 4310 Quantitative Analysis

CPSC 3380 Operating Systems

or CPSC 3370 Net-centric Computing: Systems Concepts

CPSC 4376 Applied Cryptography

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**Courses in Information Assurance (IFAS)**

**IFAS 2300 Introduction to Information Assurance**

Prerequisite: RHET 1312. Study of information security for roles as security professionals and business decision-makers. This course addresses knowledge areas of the Certified Information Systems Security Professional (CISSP) certification, including need for security, legal and ethical issues, risk management, security technologies and tools, and personnel security maintenance. Three hours lecture. Three credit hours.

**IFAS 3300 Computer Forensics**

Prerequisite: IFAS 2300 and knowledge of Unix or Linux, as well as Windows operating systems. Study of the preservation, identification extraction, documentation, and interpretation of computer data following clear, well-defined methodologies and procedures. This course can be repeated for credit with a different theme. Three hours lecture. Three credit hours.

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**Courses in Computer Science**

**CPSC 1105 First Year Experience for CPSC/IFSC Majors**

A survey of the Computer and Information Science majors with coverage of Interpersonal and Team Communication skills, Time Management & Goal Setting, Techniques for Discovering, Organizing & Presenting Information, Self-Initiated Learning, and Overview of Campus-based resources. Activities include service learning projects, field trips, guest speakers, demonstrations, faculty presentations, and social networks. Two hour lab per week. One credit hours.

**CPSC 1175 Introduction to Computer Science Laboratory**

Prerequisite: MATH 1302 or equivalent. Corequisite: CPSC 1375. A laboratory course to accompany CPSC 1375. Introduction to editing, compiling, and executing programs on various platforms; UNIX operating system; number systems and number conversions; presentation software, and the internet resources. Successful completion of this course requires a grade of C or greater. Two hours laboratory per week. One credit hour.

**CPSC 1310 Internet Technologies**

See IFSC 1310. Internet Technologies.

**CPSC 1370 Computer Literacy**

The fundamental concepts of computing in a personal computer environment. Introduction to hardware and software and system configurations. The focus is on practical problem solving using popular PC application software for word processing, spreadsheets, and databases. This course may not be counted for credit toward a computer science major or minor. Three hours lecture per week. Three credit hours. (ACTS Course Number CPST 1003)

**CPSC 1372 RPG Programming**

Prerequisite: CPSC 1375, MGMT 1310, or equivalent. Report Program Generator is a nonprocedural language for data processing. Input, output, arithmetic, comparison, control breaks, arrays, sequential files, direct-access files. This course may not be counted for credit toward a computer science major or minor. Three hours lecture per week. Three credit hours.

**CPSC 1375 Programming I**

Prerequisite: MATH 1302 or equivalent. Corequisite: CPSC 1175. Introduction to algorithm development and implementation using control structures, functions, arrays, pointers, and basic object-oriented concepts. Successful completion of this course requires a grade of C or greater. Three hours lecture per week. Three credit hours.

**CPSC 2376 Programming II**

Prerequisite: CPSC 1375. Advanced programming concepts including structures, abstract data types, details of object-oriented concepts including encapsulation and polymorphism in current object-oriented language. Successful completion of this course requires a grade of C or greater. Three hours lecture per week. Three credit hours.

**CPSC 2377 Introduction to Game Programming**

Prerequisites: CPSC 1375, IFSC 2300 SYEN 1302. Advanced programming concepts including structures, abstract data types, recursive techniques, game based hands-on experiences for students to learn and understand details of advanced object-oriented concepts in a current object-oriented language. Successful completion of this course requires a grade of C or greater. Three hours lecture per week. Three credit hours.

**CPSC 2380 Data Structures and Algorithms**

Prerequisite: CPSC 2376 or CPSC 2377. A systematic study of the main data structures of computer science: arrays, stacks, queues, linked lists, trees, graphs, hash tables. Implementation and analysis of the algorithms and programming techniques for searching sorting, inserting into, and deleting from these structures; efficiency considerations. Successful completion of this course requires a grade of C or greater. Three hours lecture per week. Three credit hours.

**CPSC 2382 Introduction to Computer Systems and Assembly Language**

Prerequisite: CPSC 1375 or equivalent. Introduction to machine architecture, detailed study of the PC instruction set and addressing modes. Assembling, linking, executing, and debugging of assembly language programs. Additional topics include keyboard and screen handling, string processing, interrupts, binary and decimal arithmetic. Three hours lecture per week. Three credit hours.
CPSC 2391 Cooperative Education  
Prerequisites: major in computer science, CPSC 2376 or CPSC 2377, and consent of department chairperson. Designed to complement and extend the classroom learning experience through the application of theoretical concepts in a professional work environment. A minimum of 200 hours of work with participating employers. The exact number of work hours, activities, and responsibilities are dependent on the nature of the work experience and must be specified in written agreements coordinated with the Office of Cooperative Education. Three credit hours.

CPSC 2399 Special Topics  
Prerequisite: CPSC 1370, 1375, or equivalent or the consent of the instructor. Introduction to a programming language to be selected from the following list: Visual BASIC, C, ADA, Perl, XML, scripting languages, internet programming. This course may be repeated with a different language. This course is not accepted for credit in the computer science major or minor. Three hours lecture per week. Three credit hours.

CPSC 3370 Net-centric Computing: Systems Concepts  
Prerequisites: CPSC 2380 and CPSC 2382. Coverage of systems programming of net-centric computing systems. Hands-on experiences for students to learn how net-centric computing systems work and writing net-centric computing applications. Three hours lecture per week. Three credit hours.

CPSC 3371 Net-centric Computing: Language Concepts  
Prerequisites: CPSC 2380 and CPSC 2382. Coverage of language design issues for net-centric computing systems. Hands-on experiences for students to learn and understand tradeoffs between applicative needs compared to language design and implementation issues. Three hours lecture per week. Three credit hours.

CPSC 3372 System Utilities  
Prerequisite: CPSC 2376 or CPSC 2377. Job steps, file identification, program storage, data storage, cataloged procedures, libraries, utility programs. Three hours lecture. Three credit hours.

CPSC 3375 Database Concepts I  
Prerequisites: CPSC 2380, MATH 2310. In-depth study of data models including E-R, EER, Relational, object relational, and other current models; Data language including relational algebra, relational calculus, SQL, and QBE; Database design including functional dependency and normalization; Database implementation using popular DBMSs; Application development using embedded SQL enhanced by web technology. Three hours lecture per week. Three credit hours.

CPSC 3380 Operating Systems  
Prerequisites: CPSC 3370; MATH 1452 or equivalent. Buffering, physical input/output, and data management. Loaders, linkage editors, and relocation. Multiprogramming, scheduling resource allocation, and virtual memory. Three hours lecture per week. Three credit hours.

CPSC 3381 Enterprise COBOL Application Development  
Prerequisites: CPSC 2376, CPSC 2377, or consent of the instructor. Accelerated programming in COBOL. Includes organization of COBOL programs, input, output, data manipulations, and tables, file organization, and file access methods. Subprogram introduction to CICS programming. Three hours lecture per week. Three credit hours.

CPSC 3383 Language Structure  
Prerequisites: CPSC 3371; MATH 2310. Concepts of syntax and semantics of grammars and languages. Study and comparison of the organization and major constructs of various programming language paradigms, with in-depth study of several specific languages. Implementation and compiler/interpreter-related issues. Three hours lecture. Three credit hours.

CPSC 3385 File Structures and Multimedia  
Prerequisites: CPSC 2380 and MATH 1452 or equivalent. In-depth study of sequential, indexed, and direct file structure; buffering, indexing; file systems; markup file structures including XML. Modern file representation including image files and sound files; Multimedia technology including CD-ROM, DVDs, and tape storage. Three hours lecture per week. Three credit hours.

CPSC 3386 Information Storage and Retrieval  
Prerequisites: CPSC 2380, MATH 2310, 1452 or equivalent. The analysis of information content by statistical, syntactic, and logical methods. Search and matching techniques. Automatic retrieval systems, question answering systems. Evaluation of retrieval effectiveness. Three hours lecture per week. Three credit hours.

CPSC 3387 Simulation Methods  
Prerequisites: CPSC 2380, STAT 3352 or equivalent, MATH 1452. Introduction to the design and analysis of discrete probabilistic systems using simulation. Basic concepts in modeling and analysis for both continuous and discrete systems are covered. Combined simulation methods, including integrated qualitative/quantitative system modeling. Emphasizes model construction and simulation language. Three hours lecture per week. Three credit hours.

CPSC 3391 Cooperative Education  
Prerequisites: major in computer science, completion of the computer science freshman and sophomore core, and consent of department chairperson. Further work experiences to complement and extend the classroom learning experience through the application of theoretical concepts in a professional work environment. A minimum of 200 hours work with a participating employer. The exact number of work hours, activities, and responsibilities are dependent on the nature of the work experience and must be specified in written agreements coordinated with the Office of Cooperative Education. Three credit hours.

CPSC 3482 Computer Organization I  

CPSC 4360 Computer Security  
Prerequisite: CPSC 3371 and 3482 or consent of instructor. Increasing reliance on our computer-based infrastructure elements along with information-driven nature of today’s business requires a solid and in depth understanding of security issues pertinent to the systems. The topics include threats, assumptions, assurance, confidentiality, integrity, availability, access control matrix and policies, security models, requirements imposed by policies, protection models, covert channels, formal methods for security, designing and evaluating systems, intrusion detection, auditing and other contemporary issues. Three hours lecture per week. Three credit hours.

CPSC 4366 Interactive Computer Graphics and Animation  
Prerequisite: MATH 2310 and knowledge of C, C++, or Java programming. This course addresses topics such as introduction to computer graphics and all the details of design of modern graphics architectures. The topics covered include two and three dimensional modeling and transformation, lighting and shading, animation techniques, introduction to OpenGL. Dual-listed in the UALR Graduate Catalog as CPSC 5366. Three hours lecture per week. Three credit hours.

CPSC 4370 Theory of Computation  
Prerequisites: CPSC 3371, MATH 2310. A study of the main areas of theoretical computer science and their hierarchical interconnections. Basic results relating to formal models of computation, with emphasis on grammars and languages, finite automata, Turning machines, and computational complexity. Three hours lecture per week. Three credit hours.
CPSC 4371 Computer Documentation
Prerequisite: Senior standing in computer science and consent of instructor. The design and development of computer system documentation with emphasis on user documentation. Practical experience in writing a user manual using structured design methodology. Discussion of online documentation, hypertext, and emerging documentation technologies. Three hours lecture per week. Three credit hours.

CPSC 4372 Object-oriented Programming
Prerequisites: working knowledge of a procedural programming language and UNIX operating system, or consent of the instructor. Concepts of object-oriented analysis, design, and implementation. Object-oriented programming in C++, Smalltalk, Java, and/or another current object-oriented programming language. Dual-listed in the UALR Graduate Catalog as CPSC 5372. Three hours lecture. Three credit hours.

CPSC 4373 Fundamentals of Software Engineering
Prerequisites: CPSC 3370, CPSC 3371, and MATH 1452. Requirements definition, analysis and modeling including use cases and use case paths, domain models, state transition diagrams; techniques to increase robustness and avoid disastrous defects; object-oriented architecture and design patterns and specifications in UML; performance impact of design choices; analysis of designs regarding maintainability and testability; security engineering; practical system test and glass-box testing fundamentals; verification of test coverage via decision tables and state transition table. Dual-listed in the UALR Graduate Catalog as CPSC 5373. Three hours lecture per week. Three credit hours.

CPSC 4375 Fundamentals of Database Management Systems
Prerequisites: CPSC 3375 or equivalent. Advanced topics related to the design and efficient implementation of modern database management systems. Concurrency and transaction management, database security, query processing, query optimization, physical database storage, and indexing. Dual-listed in the UALR Graduate Catalog as CPSC 5375. Three hours lecture per week. Three credit hours.

CPSC 4376 Applied Cryptography
Prerequisites: CPSC 2380, MATH 2310, and STAT 3352 or equivalents. A survey and study of the major cryptographic techniques, algorithms, and implementations, with emphasis on applications to communications and network security. Intended as a practical introduction to the current state-of-the-art of cryptographic usage. Dual-listed in the UALR Graduate Catalog as CPSC 5376. Three hours lecture. Three credit hours.

CPSC 4381 Computer Architecture and Design
Prerequisite: CPSC 3482. Formal description of computer architecture and design, instruction set architectures, processor design of modern computers, pipeline and instruction level parallelism, memory system design, and input and output system design. Dual-listed in the UALR Graduate Catalog as CPSC 5381. Three hours lecture per week. Three credit hours.

CPSC 4382 Compiler Construction and Theory
Prerequisites: CPSC 3371. Fundamental principles of compiler design such as finite state machine and context-free grammar. Compilation techniques include compile and run-time symbol tables, lexical analysis, syntax analysis, semantic analysis, object code generation, error diagnostics, and optimization. Dual-listed in the UALR Graduate Catalog as CPSC 5382. Three hours lecture. Three credit hours.

CPSC 4383 Artificial Intelligence
Prerequisites: CPSC 3371; MATH 1452 and MATH 2310. Introduction to machine intelligence. Emphasis upon different paradigms for problem solving such as various state-space search strategies and other approaches. Exposure to one or more key areas such as robotics, logic programming, machine learning, expert systems, planning, neural networks, natural language processing, reasoning, under uncertainty, etc. Three hours lecture per week. Three credit hours.

CPSC 4384 Computer Networks
Prerequisites: CPSC 3370 and CPSC 3482. Introduction to design and analysis of computer networks. Computer communications architecture and protocols, local and wide area networks, IP networks, bridging and routing, Ethernet, wireless LANs, sockets programming, and distributed applications. Dual-listed in the UALR Graduate Catalog as CPSC 5384. Three credit hours.

CPSC 4387 Distributed Computing
Prerequisites: CPSC 3370. Network-based client/server computing. Topics include TCP/IP, object-oriented technology, distributed objects and their interfaces, JDBC, remote method invocation, CORBA, and web-based software system architecture. Three credit hours.

CPSC 4388 Smart Software Systems
Prerequisite: CPSC 3375, MATH 1452. Study of the concept, design, and implementation of rule-based systems, agent-based systems, reasoning, reasoning under uncertainty; belief systems, explanation systems; knowledge representation, knowledge acquisition, and knowledge discovery; and application of knowledge engineering in web technology. Dual-listed in the UALR Graduate Catalog as CPSC 5388. Three hours lecture per week. Three credit hours.

CPSC 4389 E-commerce: Analysis, Design, and Implementation
Prerequisites: CPSC 3371, 3375. E-commerce site analysis and design. Web-based system architecture, client/server computing, network protocols, software engineering for web based systems, computer networks, web-based databases, script languages (Java, VB), XML, ASP, SQL, and DSN. Three credit hours.

CPSC 4391 Cooperative Education
Prerequisites: major in computer science, CPSC 3391, and consent of department chairperson. Continuation of CPSC 3391. Work experiences to complement and extend the classroom learning experience through the application of theoretical concepts in a professional work environment. A minimum of 200 hours work with a participating employer. The exact number of work hours, activities, and responsibilities are dependent on the nature of the work experience and must be specified in written agreements coordinated with the Office of Cooperative Education. Three credit hours.

CPSC 4392 Capstone Project
Prerequisites: CPSC 3370, CPSC 3371, and CPSC 4373 or IFSC 3360. Capstone course in which student individually design a software system, document and present their conclusions. Students also develop a detailed undergraduate portfolio for a comprehensive review of their undergraduate work. Project work involves the development of design alternatives, development of an appropriate software architecture, and design and test the implemented system. The software design focuses on addressing overall design goals while understanding constraints of cost, etc. Deliverables and schedule are determined by the instructor. Three credit hours.

CPSC 4395, 4495, 4595 Internship
Prerequisites: senior standing in computer science, approval of assignment by advisor. Professional experience related to student’s discipline under supervision of advisor. Sixty hours work per credit hour. Three, four, or five credit hours.

CPSC 4399 Special Topics
Prerequisite: consent of instructor. Advanced topics in areas of current interest in computer science. Refer to the semester schedule for specific topics offered. Dual-listed in the UALR Graduate Catalog as CPSC 5399. Three hours lecture. Three credit hours.

CPSC 4410, 4200, 4300, 4400, 4500 Independent Study
Prerequisites: senior standing, at least 20 hours in computer science, consent of instructor. Designed for students who want to carry out special investigations. Topic and method of procedure must have approval of the supervising faculty member. Dual-listed in the UALR Graduate Catalog at the 5000-level. Sixty hours work per credit hour. One, two, three, four, or five credit hours.
Chairperson:
Tramel, Michael

Coordinator of Undergraduate Construction Management Programs:
Carr, James K.

Coordinator of Graduate Construction Management Programs:
Xie, Haiyan

Coordinator of Civil & Construction Engineering Program:
Jovanovic, Nickolas

Coordinator of Architectural & Construction Engineering Program:
Jovanovic, Nickolas

Professors:
Blacklock, James
Carr, James K.
Pellicane, Patrick
Tramel, Michael
Xie, Haiyan

Associate Professors:
Akhnoukh, Amin
Jovanovic, Nickolas
Ray, Chris

Senior Instructor:
Woodard, John

Advanced Instructor:
Squires, Mark

Adjunct Instructors:
Gram, Robert
Hart, Robert
House, Amanda
Kelley, Michael
Mantione, Donna
McKenney, Christopher
Phillips, Doyle
Wright, Teresa

Laboratory Specialist:
Blackmon, Larry

Administrative Assistant:
Bates Slaughter, Sandra

Construction is our nation’s largest industry. It encompasses the residential sector, commercial
and retail buildings, office and high-rise structures, major industrial and process complexes,
and engineering infrastructure such as highways, dams, bridges, airports, and seaports. The
complexity of projects demands that professional constructors and engineers possess detailed
knowledge of the many aspects of the industry to effectively lead and manage the design and
construction processes.

UALR’s construction-related programs provide curricula that equip for a wide range
of design, managerial, and supervisory roles within this multi-faceted, dynamic industry.
Technological, computer, and software orientation assist our graduates to develop into
contributing members of the architectural, engineering, and construction industry with high
paying entry level jobs. There are substantial opportunities for rapid advancement and salary
increases with experience in the industry. Career opportunities for our graduates can be found
with general and specialty contractors, architectural and engineering design firms, testing
laboratories, government agencies, financial institutions, insurance and surety companies,
and manufacturers of construction equipment and products. The courses provide an in-depth
study of construction management, construction science, engineering, business, mathematics,
and sciences. Extensive applications with construction and engineering computer software and
hardware emphasize the most current technologies used by industry.

General Information

Degrees Offered

• Bachelor of Science in Construction Management
• Bachelor of Science in Civil and Construction Engineering
• Bachelor of Science in Architectural and Construction Engineering
• Master of Science in Construction Management

UALR Undergraduate Catalog
Minor in Construction Management

The minor in construction management is available to all UALR students who want to learn about construction materials, methods, and management. Students are required to take eighteen credit hours of approved CNMG courses.

Admission Policy

After admission to UALR, any student may declare a major or minor in construction management. Admission to one of the department’s engineering majors requires readiness to take MATH 1451 Calculus I and CHEM 1406 General Chemistry for Engineers. Students may be provisionally admitted into one of the engineering majors before this, but they may require more than four years to complete the degree requirements.

Contact Information

To discuss the construction management programs, students should visit Mike Tramel in ETAS 203, call (501) 569-8133, or send e-mail to jmtramel@ualr.edu.

To discuss the civil and construction engineering program, or the architectural and construction engineering program, students should visit Nick Jovanovic in ETAS 202F, call (501) 569-8226, or send e-mail to nsjovanovic@ualr.edu.

For additional information, please visit the department website at ualr.edu/constructionmanagement/. Facsimiles may be sent to (501) 569-8341.

Work Experience Requirement

All students in the department are required to complete a minimum of 800 contact hours of practical work experience in an approved construction-related activity. This stipulation provides the graduate with valuable industry experience and insights.

Accreditation

The four-year baccalaureate, construction management program is accredited by the American Council for Construction Education (ACCE). The ACCE is recognized by the Council for Higher Education Accreditation as the national accrediting agency for four-year baccalaureate programs in construction education. Accreditation is a means for recognizing educational institutions that achieve and maintain a level of performance, integrity, and quality that entitles them to the confidence of the educational community and the public they serve. The UALR construction management program is the only such accredited program in the University of Arkansas system.

A new engineering program cannot seek accreditation until at least one student has graduated from the program. As new programs, the engineering programs offered by the department are not currently accredited.

Student Activities

The UALR construction management program has five student chapters and one honor society for student involvement. The student chapters are affiliated with the Associated General Contractors (AGC), the Associated Builders and Contractors (ABC), the National Association of Home Builders (NAHB), Construction Specification Institute (CSI), and the Forest Product Society (FPS). The Arkansas chapter of each association sponsors the student chapters and provides opportunities for students to interact and network with members of their organizations. Special student membership is also available with the American Concrete Institute (ACI), American Society of Professional Estimators (ASPE), National Association of Women in Construction (NAWIC), and the International Code Council (ICC).

Students who meet the requirements can become members of Sigma Lambda Chi, the International Honor Society for Leaders in Construction. The UALR construction management program is a member of the Associated Schools of Construction (ASC) and participates in the ASC regional construction management competitions. Selected students can also compete in the sponsoring student chapter construction management competitions for ABC, AGC, and FPS.

Engineering students have the opportunity to become involved with several engineering organizations, including the American Society of Civil Engineers (ASCE), the American Society of Mechanical Engineers (ASME), the American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE), the Society of Women Engineers (SWE), and Engineers Without Borders (EWB). Engineering students can participate in regional and national student competitions, such as the National Student Steel Bridge Competition, the Big Beam Contest, and the Charles Pankow Foundation Annual Architectural Engineering Student Design Competition.

Degree Requirements

Bachelor of Science in Construction Management

The construction management program is an interdisciplinary baccalaureate degree program that builds upon construction methods, engineering techniques, and business courses offered in the Donaghey College of Engineering and Information Technology and the College of Business. The integrated curriculum provides a foundation for the capstone courses offered in the senior year and the required passage of the Associate Constructor (AC) examination.

A minor is not required, but may be obtained from the College of Business. Students seeking a Bachelor of Science degree in Construction Management must pass each CNMG course with a grade of C or greater.

Bachelor of Science in Construction Management

General: 125 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-1 hour)

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)

CNMG 1101 First Year Colloquium in Construction

Core (29-30 hours)

Composition/Communication (9 Hours)
RHET 1311 Composition I
RHET 1312 Composition II
SPCH 1300 Speech Communication

Fine Arts/Humanities (5-6 Hours)
Fine Arts (choose one):
MUHL 2305 Introduction to Music
ARHA 2305 Introduction to Visual Art
THEA 2305 Introduction to Theatre and Dance
IFSC 2200 Ethics in the Profession
AND

Humanities (choose one):
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
IFSC 2200 Ethics in the Profession
Social Sciences (9 Hours)

Choose one of the following:
POLS 1310 American National Government
HIST 2311 U.S. History to 1877
HIST 2312 U.S. History since 1877

AND
ECON 2301 Survey of Economics
AND

Choose one of the following:
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II

Additional Communications, Humanities, Arts, and Social Sciences (3 Hours)
ECON 4324 Environmental Economics

Technical Writing (3 Hours)
MGMT 3380 Business Communication
or RHET 3316 Writing for Work
or RHET 3326 Technical Writing

Major (95 hours)

Math and Science courses (23 hours):
MATH 1302 College Algebra
MATH 1303 Trigonometry
MATH 1342 Business Calculus
or MATH 1311 Applied Calculus I
MGMT 1310 Fundamentals of Information Technology
or CPSC 1370 Computer Literacy
ERSC 1302 Physical Geology
ERSC 1102 Physical Geology Lab
ERSC 1303 Historical Geology
or ERSC 4371 Engineering Geology
or PHYS 1322 Elementary Physics II
or STAT 2350 Statistical Methods
PHYS 1321 Elementary Physics I
PHYS 1121 Elementary Physics I Laboratory

Business and Management (12 hours)
ACCT 2310 Principles of Accounting I
MKTG 2380 Legal Environment of Business
or MGMT 4391 Employment Law
MGMT 4372 Construction Business Management
Approved Business Elective (3 hours, if required)

Construction Management Requirements (57 hours):
CNMG 1201 The Construction Industry
CNMG 1205 Drawings and Specifications
CNMG 2313 Construction Materials
CNMG 2113 Construction Methods I
CNMG 2314 Mechanical, Electrical, and Plumbing (MEP) Systems
CNMG 2114 Construction Methods II
CNMG 2316 Construction Surveying
CNMG 2218 Building Information Modeling
CNMG 2323 Construction Administration
CNMG 3321 Steel Construction
CMNG 3322 Concrete Construction
CNMG 3327 Field Engineering and Construction
CNMG 3333 Statics and Strength of Materials
CNMG 3339 Estimating I
CNMG 3347 Engineering Soil Mechanics
CNMG 4310 Construction Financial Management
CNMG 4211 Estimating II
CNMG 4218 Construction Modeling and Design
CNMG 4329 Constructions Planning and Scheduling
CNMG 4334 Construction Contracts and Law
CNMG 4342 Construction Safety
CNMG 4245 Construction Management Capstone
CNMG 4145 Professional Constructors Certification

Major Electives (3 hours):
CNMG 4399 Special Topics
or CNMG 4391 Cooperative Education
or CNMG 4361 Green Construction
or approved CNMG elective

Minor (none required)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours,
45 hours of upper-level courses (3000-4000 level), or 30 hours
in residence.

Bachelor of Science in Civil and Construction Engineering

The civil and construction engineering program focuses on
structural engineering, geotechnical engineering, and construction
engineering. However, the program also exposes students to
the other major areas of civil engineering, including materials
engineering, environmental and water resources engineering,
highway engineering, and surveying, through required or elective
courses.

A minor is not required. Students seeking a Bachelor of Science
degree in Civil and Construction Engineering must pass each
CNMG course with a grade of C or greater, must achieve at least a
2.00 grade point average (GPA) in the major (all required MATH,
STAT, CHEM, PHYS, CNMG and SYEN courses), and also must
pass both the Fundamentals of Engineering (FE) and the Associate
Constructor (AC) examinations.

Bachelor of Science in Civil and Construction Engineering

General: 127 total hours, including 45 hours of upper-level courses
(3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)

Required of full-time freshmen entering college for the first
time and transfer students with less than 12 hours of credit.
(See page 36 for details)

CNMG 1101 First-Year Colloquium in Construction
or any other FYC

Core (35 hours)

English/Communication Requirement (6 hours)
RHET 1311 Composition I
RHET 1312 Composition II

Math (3 hours)
MATH 3322 Differential Equations

Science (8 hours)
CHEM 1406 Engineering Chemistry
or CHEM 1402 General Chemistry I
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Lab

U.S. History and Government Requirement (3 hours)
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government
Fine Arts/Humanities/Social Sciences (9 hours)
Three of the following:
ANTH 2316 Cultural Anthropology
ARHA 2305 Introduction to Visual Art
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
ERSC 2300 Science and Technology in Society
GEOG 2312 Cultural Geography
GNST 2300 Introduction to Gender Studies
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
MCOM 2330 Mass Media and Society
MUHL 2305 Introduction to Music
PHIL 2320 Ethics and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introductory to Sociology
SPCH 1300 Speech Communication
THEA 2305 Introduction to Theatre and Dance
Any CHIN, FREN, GERM, INTR, or SPAN course

Additional Math and Science—in place of Fine Arts/Humanities/Social Sciences (6 hours)

Additional Science Requirement (3 hours) One of the following:
BIOL 1400 Evolutionary and Environmental Biology
BIOL 1401 Science of Biology
ERSC 1302 Physical Geology
ERSC 4371 Engineering Geology
Another science course approved by the Program Coordinator (CANNOT be math, chemistry, or physics)

Math/Science Requirement (3 hours) One of the following:
A second course from the Additional Science Requirement list above BIOL 2401 Microbiology
CHEM 1403 General Chemistry II
MATH 3312 Linear Algebra
PHYS 2322 Physics for Scientists and Engineers II
STAT 3353 Applied Statistics II
Another math or science course approved by Program Coordinator

Second Language Proficiency (none required)

Major (92 hours)

Additional Mathematics Courses for Major (12 credit hours)
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III

Statistics Requirement (3 hours) One of the following:
STAT 2350 Introduction to Statistical Methods
STAT 3352 Applied Statistics I
ECON 2310 Business Statistics I

Construction Management and Civil and Construction Engineering Courses (71 credit hours)
CNMG 1205 Drawings and Specifications
CNMG 2123 Construction Engineering Materials
CNMG 2313 Construction Materials
CNMG 2113 Construction Methods I
CNMG 2314 Mechanical, Electrical, and Plumbing (MEP) Systems
CNMG 2114 Construction Methods II
CNMG 2316 Construction Surveying

CNMG 2218 Building Information Modeling
CNMG 2323 Construction Administration
CNMG 2370 Engineering Statics
CNMG 2274 Thermal and Fluid Engineering
CNMG 3302 Engineering Economy
CNMG 3312 Engineering Structural Analysis
CNMG 3327 Field Engineering and Construction Equipment
CNMG 3339 Estimating I
CNMG 3347 Engineering Soil Mechanics
CNMG 3374 Hydraulic Engineering
CNMG 3376 Engineering Structural Mechanics
CNMG 4211 Estimating II
CNMG 4321 Reinforced Concrete Design
CNMG 4329 Construction Planning and Scheduling
CNMG 4334 Construction Contracts and Law
CNMG 4342 Construction Safety
CNMG 4245 Construction Management Capstone
CNMG 4351 Foundation Design
CNMG 4371 Structural Steel Design
CNMG 4285 Civil and Construction Engineering Design Project
CNMG 4185 Professional Engineering Seminar

Civil Engineering Design Requirement (3 hours) One of the following:
CNMG 4351 Foundation Design
CNMG 4354 Highway Engineering
CNMG 4357 Water and Wastewater Engineering

Other Engineering Requirements (6 hours) Chosen from the following:
Additional course(s) from the Civil Engineering Design Requirement list above
CNMG 3321 Steel Construction
CNMG 3322 Concrete Construction
CNMG 3371 Engineering Dynamics
CNMG 4218 Construction Modeling and Design
CNMG 4380 HVACR Engineering Fundamentals
CNMG 4381 Thermal Powerplant Engineering
CNMG 4389 Professional Engineering Licensure
CNMG 4391 Cooperative Education
CNMG 4399 Special Topics in Construction approved by the Program Coordinator
Other engineering course(s) approved by the Program Coordinator

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Professional Requirements
- Pass the National Council of Examiners for Engineering and Surveying (NCEES) Fundamentals of Engineering (FE) Examination.
- Pass the American Institute of Construction (AIC) Associate Constructor (AC) Examination.
- Document at least 800 hours of practical work experience in approved construction-related activities, such as student competitions, part-time or full-time employment, internships, cooperative education, community service learning projects, or prior experience.
Goals, Objectives, and Outcomes for the Civil and Construction Engineering Program

The goals of the civil and construction engineering program are to:
- Prepare students for successful engineering or management careers in the architecture, engineering, and construction (AEC) industry or related fields.
- Provide employers with a well-educated workforce that is ready and able to perform valuable civil and construction engineering and managerial services immediately after graduation.
- Encourage the growth of knowledge-based industry and stimulate economic growth in Arkansas.

Program educational objectives are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program’s constituencies. The educational objectives of the civil and construction engineering program are to produce graduates who:

1. Rapidly become certified Engineer Interns (EI) and Associate Constructors (AC) employed in architecture, engineering, construction, or related fields or pursing graduate or professional education in engineering, business, law, architecture, etc.
2. Become licensed Professional Engineers (PE) and/or Certified Professional Constructors (CPC) after gaining the required professional experience and the requisite knowledge to pass the licensing and/or certification exams.
3. Engage in lifelong learning, through on-the-job training, participation in professional societies, additional formal education, continuing education and professional development, research, and self-study, in order to use state-of-the-art knowledge to design and build safe and effective buildings and infrastructure and/or provide high quality service to the general public, employers, clients, and other professionals.

Student outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program. The civil and construction engineering program will produce graduates who can:
- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multidisciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Bachelor of Science in Architectural and Construction Engineering

The architectural and construction engineering program focuses on structural engineering, mechanical engineering, electrical engineering, and construction engineering, in the context of integrated building system design and construction. The program also introduces students to architectural history and design principles.

A minor is not required. Students seeking a Bachelor of Science degree in Architectural and Construction Engineering must pass each CNMG course with a grade of C or greater, must achieve at least a 2.00 grade point average (GPA) in the major (all required MATH, STAT, CHEM, PHYS, CNMG, and SYEN courses), and also must pass both the Fundamentals of Engineering (FE) and the Associate Constructor (AC) examinations.

Bachelor of Science in Architectural and Construction Engineering

General: 127 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)
CNMG 1101 First-Year Colloquium in Construction or any other FYC

Core (35 hours)

English/Communication Requirement (6 hours)
RHET 1311 Composition I
RHET 1312 Composition II

Math (3 hours)
MATH 3322 Differential Equations

Science (8 hours)
CHEM 1406 Engineering Chemistry
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Lab

U.S. History and Government Requirement (3 hours)
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government

Fine Arts/Humanities/Social Sciences (9 hours)
ARHA 2310 Survey of the History of Art I
and ARHA 2311 Survey of the History of Art II

And choose one of the following:
ANTH 2316 Cultural Anthropology
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
ERSC 2300 Science and Technology in Society
GEOG 2312 Cultural Geography
GNST 2300 Introduction to Gender Studies
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
MCOM 2330 Mass Media and Society
MUHL 2305 Introduction to Music
PHIL 2320 Ethics and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introductory to Sociology
SPCH 1300 Speech Communication
THEA 2305 Introduction to Theatre and Dance
Any CHIN, FREN, GERII, INTR, or SPAN course
Addition of Math and Science—in place of Fine Arts/Humanities/Social Sciences (6 hours)
STAT 3352 Applied Statistics I
and any BIOL, CHEM, ENHS, ERSC, or PHYS course approved by Program Coordinator

Second Language Proficiency (none required)

Major (92 hours)
Addition of Mathematics Courses for Major (12 credit hours)
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III.

Additional Math/Science Requirement (4 hours)
PHYS 2322 Physics for Scientists and Engineers II
PHYS 2122 Physics for Scientists and Engineers II Laboratory

Construction Management and Civil and Construction Engineering Courses (62 credit hours)
CNMG 1205 Drawings and Specifications
CNMG 1213 Civil and Construction Engineering Materials
CNMG 2313 Construction Materials
CNMG 2113 Construction Methods I
CNMG 2314 Mechanical, Electrical, and Plumbing (MEP) Systems
CNMG 2114 Construction Methods II
CNMG 2218 Building Information Modeling
CNMG 2323 Construction Administration
CNMG 2370 Engineering Statics
CNMG 2274 Thermal and Fluid Engineering
CNMG 3302 Engineering Economy
CNMG 3312 Engineering Structural Analysis
CNMG 3327 Field Engineering and Construction Equipment
CNMG 3339 Estimating I
CNMG 3374 Hydraulic Engineering
CNMG 3376 Engineering Structural Mechanics
CNMG 4211 Estimating II
CNMG 4329 Construction Planning and Scheduling
CNMG 4334 Construction Contracts and Law
CNMG 4342 Construction Safety
CNMG 4245 Construction Management Capstone
CNMG 4371 Structural Steel Design
or CNMG 4321 Reinforced Concrete Design
CNMG 4380 HVAC Engineering Fundamentals
CNMG 4285 Civil and Construction Engineering Design Project
CNMG 4185 Professional Engineering Seminar

Systems Engineering Courses (8 hours)
SYEN 2315 Circuits and Systems
SYEN 2115 Circuits and Systems Laboratory
SYEN 3358 Fundamentals of Power Systems
SYEN 3158 Fundamentals of Power Systems Laboratory

Other Engineering Requirements (6 hours)
CNMG 3321 Steel Construction
CNMG 3322 Concrete Construction
CNMG 3347 Engineering Soil Mechanics
CNMG 3371 Engineering Dynamics
CNMG 4379 Heat Transfer
CNMG 4381 Thermal Powerplant Engineering
CNMG 4389 Professional Engineering Licensure
CNMG 4391 Cooperative Education
CNMG xx99 Special Topics in Construction approved by the Program Coordinator
Other engineering course(s) approved by the Program Coordinator

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Professional Requirements
• Pass the National Council of Examiners for Engineering and Surveying (NCEES) Fundamentals of Engineering (FE) Examination.
• Pass the American Institute of Construction (AIC) Associate Constructor (AC) Examination.
• Document at least 800 hours of practical work experience in approved construction-related activities, such as student competitions, part-time or full-time employment, internships, cooperative education, community service learning projects, or prior experience.

Goals, Objectives, and Outcomes for the Architectural and Construction Engineering Program
• The goals of the architectural and construction engineering program are to:
  • Prepare students for successful engineering or management careers in the architecture, engineering, and construction (AEC) industry or related fields.
  • Provide employers with a well-educated workforce that is ready and able to perform valuable architectural and construction engineering and managerial services immediately after graduation.
  • Encourage the growth of knowledge-based industry and stimulate economic growth in Arkansas.

Program educational objectives are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program’s constituencies. The educational objectives of the architectural and construction engineering program are to produce graduates who:
1. Rapidly become certified Engineer Interns (EI) and Associate Constructors (AC) employed in architecture, engineering, construction, or related fields or pursuing graduate or professional education in engineering, business, law, architecture, etc.
2. Become licensed Professional Engineers (PE) and/or Certified Professional Constructors (CPC) after gaining the required professional experience and the requisite knowledge to pass the licensing and/or certification exams.
3. Engage in lifelong learning, through on-the-job training, participation in professional societies, additional formal education, continuing education and professional development, research, and self-study, in order to use state-of-the-art knowledge to design and build safe and effective buildings and/or provide high quality service to the general public, employers, clients, and other professionals.

Student outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program. The architectural and construction engineering program will produce graduates who have:
• Engineering
  • An ability to design and conduct experiments, as well as to analyze and interpret data.
  • An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
  • An ability to apply knowledge of mathematics, science, and
  • An ability to function on multidisciplinary teams.
  • An ability to identify, formulate, and solve engineering problems.
  • An understanding of professional and ethical responsibility.
  • An ability to communicate effectively.
  • The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
  • A recognition of the need for, and an ability to engage in life-long learning.
  • A knowledge of contemporary issues.
  • An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Courses in Construction Management and Civil and Construction Engineering

In general, courses are offered only in the term that is indicated in the course description. However, courses may be offered in other terms if sufficient student demand exists and if qualified instructors are available.

CNMG 1101 First-Year Colloquium in Construction
An introduction to construction engineering and construction management, along with goal setting, time management, and the on- and off-campus resources needed for success at UALR. Hands-on activities and group projects explore various concepts in construction. Satisfies the UALR First Year Colloquium requirement. Two hours lab. One credit hour. Fall only.

CNMG 1201 The Construction Industry
Introduction to the construction industry and the career opportunities available within residential, building, heavy civil, and industrial construction. The different roles of the various participants are examined along with industry history and traditions. Proper dress and safety requirements for office and field site visits discussed. Includes guest speakers, field trips, and project site visits. One hour lecture, three hours lab. Two credit hours. Fall only.

CNMG 1205 Drawings and Specifications
Introduction to basic construction drawings and specification interpretation. Emphasis on construction drawings and blueprint reading, CSI specifications and master format, project manual, shop drawings, as-built drawings, and proper construction terminology. One hour lecture, three hours lab. Two credit hours. Fall only.

CNMG 1213 Civil and Construction Engineering Materials
Prerequisites: CHEM 1406 and MATH 1451, or consent of instructor. Properties of materials and materials science, including atomic structure and bonding, lattice structures and defects, grain structure, alloys, and phase diagrams. Construction engineering materials, including steel, aluminum, aggregates, Portland cement, concrete, masonry, asphalt, wood, and composites. Three hour lecture. Three hours lab. Two credit hours. Fall only.

CNMG 2113 Construction Methods I
Prerequisite concurrent: CNMG 1205 or consent of instructor. Construction methods and hands-on projects related to foundations, framing, doors, windows, finish carpentry, and masonry. Three hours lab. One credit hour. Spring only.

CNMG 2113 Construction Materials
Prerequisite concurrent: CNMG 1205 or consent of instructor. Introduction to specifications, standards, codes, quality control, and quantity survey as they pertain to the execution of selected construction materials. Topics include site work, concrete, masonry, steel, rough and finish carpentry, thermal and moisture protection, doors and windows, finishes, and specialties. Three hour lecture. Three credit hours. Spring only.

CNMG 2114 Construction Methods II
Prerequisite concurrent: CNMG 1205 or consent of instructor. Construction methods and hands-on projects related to interior and exterior finishes, thermal and moisture protection, plumbing, and electrical wiring. Three hours lab. One credit hour. Fall only.

CNMG 2314 Mechanical, Electrical, and Plumbing (MEP) Systems
Prerequisite concurrent: CNMG 1205 or consent of instructor. Introduction to functions of service systems within a modern structure. Includes heating, ventilating, air-conditioning (HVAC), plumbing, fire protection, electrical, and conveying systems. Three hours lecture. Three credit hours. Fall only.

CNMG 2316 Construction Surveying
Prerequisite: CNMG 2313 and MATH 1303, or consent of instructor. Introduction to the principles of construction surveying, project layout, and field performance and surveying equipment management. Topics will include use and care of surveying instruments, directions, angles, surveying calculations, errors, and computations of areas and volumes. Two hours lecture, three hours lab. Three credit hours. Spring only.

CNMG 2218 Building Information Modeling
Prerequisite: CNMG 2313, or consent of instructor. The course will focus on utilizing basic functions of Building Information Modeling (BIM) for residential and commercial construction. During the course, students will examine geometry, spatial relationships, geographic information, quantities and properties of building components. Students will create virtual models of buildings that can be used for quantity take offs. One hour lecture and three hours lab. Two credit hours. Spring only.

CNMG 2323 Construction Administration
Prerequisites: CNMG 2313 and 2314, or consent of instructor. An introduction to construction project control and administration through computer applications. Topics include project team development, standard agreements, contract documents utilization, record keeping, submittals, subcontract management, purchasing, expediting, change orders, claims, progress payments, closeout, and internet-based project control. Three hours lecture. Three credit hours. Spring only.

CNMG 2370 Engineering Statics
Prerequisite: PHYS 2321 or consent of instructor. Prerequisite concurrent: MATH 2453 or consent of instructor. Static equilibrium of particles, equivalent systems of forces, equilibrium of rigid bodies, centroids and centers of gravity, analysis of structures, dry friction, and moments of inertia. Two hours lecture. Three credit hours. Cross listed as SYEN 2370. Fall only.

CNMG 2274 Thermal and Fluid Engineering
Prerequisites: CHEM 1406, MATH 1452, and PHYS 2321, or consent of instructor. An integrated introduction to thermodynamics, fluid mechanics, and heat transfer. Topics include thermodynamic properties, the laws of thermodynamics, cycles, and psychrometrics; conservation of mass, momentum, and energy in fluid flow; introduction to conduction, convection, and radiation heat transfer. One hour lecture. Three hours lab. Two credit hours. Fall only.

CNMG 2199, 2299, 2399 Special Topics in Construction
Prerequisites: consent of instructor based on relevance of subject matter to student career goals. Designed to meet special needs of students or industry to cover application of construction management or construction engineering to specific problems. Meets equivalent of one hour per week for each credit hour value. May be taken more than once for credit. One, two, or three credit hours. Offered on demand.

CNMG 3302 Engineering Economy
Prerequisite: MATH 1311, 1342 or 1451, or consent of instructor. Introduction to engineering economic decisions for evaluating the worth of products, services, projects and systems; time value of money, economic equivalence concepts, comparison of investment alternatives, evaluating economic life and replacement analysis, inflation, depreciation and impact of taxes on engineering decisions, and economic risk analysis. Three hours lecture. Three credit hours. Cross listed as SYEN 3301. Spring only.

CNMG 3312 Engineering Structural Analysis
Prerequisites: MATH 2453 and CNMG 3376, or consent of instructor. Structural analysis of trusses, beams, frames, cables, and arches, including determinate and indeterminate structures; deflections of beams and frames; introduction to stiffness methods and matrix analysis of structures. Two hours lecture. Two hours lab. Three credit hours. Fall only.
CNMG 3321 Steel Construction
Prerequisite: CNMG 3333 or consent of instructor. Structural steel materials, shapes and uses; structural steel specifications and construction practices; structural steel fabrication and erection techniques, practices, and estimation; bolting, welding, and cutting of structural steel; construction techniques for stairs, bar joists and girders, tilt-ups, and steel deck; steel drawings, including set-up, design, detail, and erection drawings; estimating structural steel quantities and pricing. Two hours lecture. Two hours lab. Three credit hours. Fall only.

CNMG 3322 Concrete Construction
Prerequisite: CNMG 3333 or consent of instructor. Provides an in-depth examination of the principles and applications of concrete construction. Study of process of placing ready mix concrete from batching to curing along with the design, analysis, and economics of formwork. Reinforcing steel, the ACI field technician applications, and the ACI Flatwork Technician Certification are also covered. Two hours lecture, two hours lab. Three credit hours. Spring only.

CNMG 3327 Field Engineering and Construction Equipment
Prerequisite: CNMG 3347 or consent of instructor. Principles of construction project field supervision and construction equipment. Leadership, motivation, communications, problem solving, decision making, production control, quality control, and computerized reporting. Earth moving fundamentals, equipment ownership and operating costs, and equipment selection and usage. Two hours lecture, two hours lab. Three credit hours. Fall only.

CNMG 3333 Statics and Strength of Materials
Prerequisites: CNMG 2313, MATH 1303 and 1342, and PHYS 1321/1121, or consent of instructor. An analytical and practical approach to the principles and physical concepts of statics and strength of materials related to construction. Two hours lecture, two hours lab. Three credit hours. Spring only.

CNMG 3339 Estimating I
Prerequisites: MATH 1303 and CNMG 2323, or consent of the instructor. Theory and practice of construction project bidding and estimating. Topics include proposal solicitation and preparation, bidding strategy, estimate types and content, quantity survey, ethics, and an introduction to computer use in estimating. Three hours lecture. Three credit hours. Fall only.

CNMG 3347 Engineering Soil Mechanics
Prerequisites: CNMG 3333 or 3370, or consent of instructor. Introduction to soils and foundation engineering and construction soil mechanics technology. Students will study engineering properties of soils, soil field exploration procedures, soil test reports, soil compaction and stabilization construction methods, water movement in soils, moisture control and drainage procedures, in-situ stress distribution in shallow and deep soils, shear strength of clay, silt and sand soils and design of shallow building foundations. Students will perform ASTM soil testing to support the course content and generate laboratory technical reports for major laboratory tests performed during the course. Two hours lecture and two hours laboratory. Three credit hours. Spring only.

CNMG 3370 Statics and Dynamics
Prerequisites: PHYS 2321 or consent of instructor. Prerequisite concurrent: MATH 2453 or consent of instructor. Statics of particles, equivalent systems of forces, equilibrium of rigid bodies, centroids and centers of gravity, analysis of structures, friction, moments of inertia, kinematics and kinetics of particles, introduction to kinematics and kinetics of rigid bodies, forces and accelerations. Three hours lecture. Cross listed as SYEN 3370. This course is no longer offered.

CNMG 3371 Engineering Dynamics
Prerequisite: CNMG 2370 or consent of instructor. Kinematics and kinetics of particles, systems of particles, and rigid bodies; energy and momentum methods; mechanical vibrations and resonance; introduction to structural dynamics due to time-varying loads, such as wind and seismic loading. Two hours lecture. Two hours lab. Three credit hours. Cross listed as SYEN 3371. Offered on demand.

CNMG 3372 Engineering Materials
Prerequisites: CHEM 1402 and MATH 1451, or consent of instructor. Atomic structure and bonding, crystal structures, crystal geometry, solidification, crystalline imperfections, diffusion in solids, mechanical properties of metals, polymeric materials, phase diagrams, engineering alloys, ceramics, composite materials, corrosion. Three hours lecture. Three credit hours. Cross listed as SYEN 3372. Fall only.

CNMG 3374 Hydraulic Engineering
Prerequisite: CNMG 2370. Prerequisite concurrent: CNMG 2274. Properties of water; hydrostatics; water flow in pipes; pipelines and piping networks; water pumps; water flow in open channels; hydraulic structures; introduction to hydrology. Two hours lecture. Two hours lab. Three credit hours. Spring only.

CNMG 3376 Engineering Structural Mechanics
Prerequisites: CNMG 1213 and 2370, or consent of instructor. The study of deformation in structural materials: stresses and strains due to tension, compression, torsion, and bending; internal shear forces and bending moments; stress and strain transformations; design of beams and analysis of beam deflections; buckling of columns; introduction to the deformation of structures. Two hours lecture. Two hours lab. Three credit hours. Spring only.

CNMG 3378 Engineering Thermodynamics
Prerequisites: CHEM 1402, PHYS 2321, and MATH 1452, or consent of instructor. Properties of pure substances, thermodynamic processes, heat and work, the first law of thermodynamics, closed systems, enthalpy, open systems, the second law of thermodynamics, entropy, exergy, and an introduction to power and refrigeration cycles. Three hours lecture. Cross listed as SYEN 3378. Fall only.

CNMG 3195 Community Service Projects
Prerequisites: Junior standing and consent of instructor. Students will complete at least 15 hours of community service with an approved nonprofit organization such as Children International. One credit hour. Offered on demand.

CNMG 4310 Construction Financial Management
Prerequisites: ACCT 2310 and CNMG 3339, or consent of the instructor. Concepts and principles of construction financial management: construction financial systems and transactions, financial statements, depreciation analysis, labor burden, overhead determination, bid profit margins, and profit center analysis. Three hours lecture. Three credit hours. Fall only.

CNMG 4211 Estimating II
Prerequisites: CNMG 3339 or consent of instructor. Advanced applications and concepts of construction project estimating. Topics include computer aided estimating, correcting estimating errors, labor and equipment productivity, risk adjustment to price, pricing by asset utilization, mark-up, and ethics. Students compete in mock bids on different types of construction projects. Two hours lecture. Two credit hours. Spring only.

CNMG 4218 Construction Modeling and Design
Prerequisites: CNMG 2218, 2314, and 3333 or 3370, or consent of instructor. Building information modeling (BIM) functions will be used for complex commercial construction; topographic information of sites, project datums, quantities and properties of building components, building sustainability analysis, documenting projects, and detailing of MEP or structural designs; Rendering of exterior and interior views. One hour lecture and three hours lab. Two credit hours. Fall only.

CNMG 4321 Reinforced Concrete Design
Prerequisite: CNMG 3312 or consent of instructor. Behavior and design of reinforced concrete elements, including beams, columns, slabs, footings, foundations, and retaining walls; introduction to prestressed concrete design. Two hours lecture. Two hours lab. Three credit hours. Spring only.
CNMG 4322 Building Structure Design
Prerequisites: CNMG 3321 and 3322, or consent of instructor. Introduction to design and analysis of steel and concrete building structures. Student will study beams, columns, and tension components including fasteners and welds constructed from high strength structural steel following the AISC Manual, during the first half of the course. Reinforced concrete design and analysis procedures for rectangular beams and slabs for bending and shear loads and axially loaded round and square long columns will be studied during the second half of the course. The provisions of the ACI Code will be followed. Concrete prestressed beam technology will be included as well as steel rebar development. Two hours lecture and two hours problem lab. Three credit hours. Spring only.

CNMG 4329 Construction Planning and Scheduling
Prerequisite: CNMG 4211 or consent of instructor. An in-depth study of the process of creating and monitoring a construction project schedule. Creation of project schedules on a variety of scheduling software, with primary focus on Primavera. Three hours lecture. Three credit hours. Fall only.

CNMG 4334 Construction Contracts and Law
Prerequisites: senior standing and CNMG 2323, or consent of instructor. A study of construction contracts in relation to project delivery systems and the basic principles of construction law. Case studies are used to analyze selected areas that affect the construction process. Topics include standard agreements and conditions, negligence, risk, indemnities, modifications, mechanics lien, claims, dispute resolution, conflicts of interest, ethical consideration, and labor law. Three hours lecture. Three credit hours. Fall only.

CNMG 4342 Construction Safety
Prerequisites: junior standing or higher, or consent of instructor. A study of the principles of construction safety management and OSHA 29 CFR PART 1926. The OSHA Construction Industry Training Course 500 topics covered in depth. Students develop a company safety plan and hazardous communications program, perform safety analysis, conduct safety meetings, and write accident investigation reports. Students complete the topic requirements for the OSHA 10-hour and 30-hour Construction Safety and Health training card. Two hours lecture and two hours lab. Three credit hours. Spring only.

CNMG 4145 Professional Constructor Certification
Prerequisite: Senior standing or consent of instructor. Description of American Institute of Construction (AIC) certification programs and preparation for Constructor Qualifying Examinations leading to certifications as Associate Constructor (AC) and Certified Professional Constructor (CPC). Two hours lab. One credit hour. Spring only.

CNMG 4245 Construction Management Capstone
Prerequisites: Restricted to students in the final semester of the construction management or construction engineering program. A capstone course. Students develop and organize construction companies. Project contracts are awarded and contract administration is required. Two hours lecture. Two credit hours. Spring only.

CNMG 4351 Foundation Design
Prerequisite: CNMG 3347 or consent of instructor. A brief review of introductory soil mechanics followed by complete hands-on laboratory testing of sample soils for consolidation and tri-axial shear. The major portion of the course is composed of selected geotechnical aspects of foundation design, including both shallow and deep foundations. Topics include: ultimate bearing capacity, allowable bearing capacity, consolidation settlement of shallow foundations, pile foundations for bearing and friction piles, lateral earth pressure and retaining wall design, foundation design on difficult soil s, and specialty soil improvement and ground modification. Two hours lecture. Two hours lab. Three credit hours. Spring only.

CNMG 4357 Water and Wastewater Engineering
Prerequisites: CNMG 3374, or consent of instructor. An introduction to drinking water treatment and distribution and wastewater collection and treatment. Topics include coagulation; flocculation; softening; ion exchange; membrane filtration; sedimentation; filtration; disinfection; wastewater microbiology; primary, secondary, and tertiary treatment of wastewater; and residuals management. Three hours lecture. Three credit hours. Spring only.

CNMG 4354 Highway Engineering
Prerequisites: STAT 3352, CNMG 23 16, and CNMG 334 7, or consent of instructor. An introduction to highway engineering and traffic analysis. Topics include geometric design of highways, pavement design, traffic flow, highway capacity, level-of-service analysis, traffic control devices and safety, travel demand and traffic forecasting. Three hours lecture. Three credit hours. Fall only.

CNMG 4361 Green Construction
Prerequisite: Junior standing or higher. Overview of design and construction delivery systems for high performance green buildings; relevant criteria and established guidelines; green standards; high performance green buildings and sustainability; vocabulary associated with sustainability and green buildings; physical limitations of materials. Three hours lecture. Three credit hours. Offered on demand.

CNMG 4371 Structural Steel Design
Prerequisite: CNMG 3312 or consent of instructor. Behavior and design of structural steel elements, including connectors, tension and compression members, columns, and braced and unbraced beams; members under combined forces; joints and connecting elements; connections. Two hours lecture. Two hours lab. Three credit hours. Spring only.

CNMG 4174 Fluid Mechanics Laboratory
Prerequisite concurrent: CNMG 4374. Analysis of experimental data, basic electrical measurements and sensing devices, pressure measurement, flow measurement, temperature measurement, data acquisition and processing, report writing and presentation, design of experiments. Two hours lab. One credit hour. Cross listed as SYEN 4174. Spring only.

CNMG 4176 Mechanics of Materials Laboratory
Prerequisite concurrent: CNMG 4376 or consent of instructor. Analysis of experimental data, basic electrical measurements and sensing devices, force measurement, torque measurement, strain measurement, motion measurement, vibration measurement, data acquisition and processing, report writing and presentation, design of experiments. Two hours lab. One credit hour. Cross listed as SYEN 4176. Spring only.

CNMG 4376 Mechanics of Materials
Prerequisites: CNMG 3370, and 1313 or 3372, or consent of instructor. Stress, strain, axial loading, torsion, pure bending, analysis and design of beams, shearing stresses in beams and thin-walled members, transformation of stress and strain, principal stresses, deflection of beams, columns, energy methods. Three hours lecture. Three credit hours. Cross listed as SYEN 4376. Spring only.

CNMG 4379 Heat Transfer
Prerequisites: CNMG 3374 or 4374, or consent of instructor. Prerequisite concurrent: MATH 3322, or consent of instructor. Steady and transient heat conduction; forced, natural, and multiphase convection; heat exchanger design and analysis; radiation heat transfer; mass transfer. Three hours lecture. Three credit hours. Cross listed as SYEN 4379. Fall only.
CNMG 4380 Heating, Ventilating, Air-Conditioning, and Refrigeration (HVACR) Engineering Fundamentals
Prerequisite: CNMG 2274 or SYEN/CNMG 3378, or consent of instructor. Fundamentals of heating, ventilating, air-conditioning, and refrigeration (HVACR) engineering; refrigeration cycles; psychrometrics; indoor air quality and ventilation; heating and cooling loads. Two hours lecture, two hours lab. Three credit hours. Cross-listed as SYEN 4380. Fall only.

CNMG 4381 Thermal Powerplant Engineering
Prerequisite: CNMG 2274 or SYEN/CNMG 3378, or consent of instructor. Thermodynamics of combustion and power cycles; internal combustion engines; steam turbine powerplants; gas turbine powerplants; combined cycle powerplants; introduction to alternative energy systems. Two hours lecture. Two hours lab. Three credit hours. Cross listed as SYEN 4381. Offered on demand.

CNMG 4185 Professional Engineering Seminar
Prerequisites: Junior standing or higher, or consent of instructor. This course is a focused exploration of the Civil Engineering Body of Knowledge for the 21st Century, as developed by the American Society of Civil Engineers (ASCE). Students research the foundational, technical, and professional knowledge, skills, and attitudes necessary for success in the engineering profession and present their results to peers, through oral and written presentations. Three hours lab. One credit hour. Fall only.

CNMG 4285 Civil and Construction Engineering Design Project
Prerequisite: Restricted to students in the final semester of the civil and construction engineering program. Prepare for engineering practice by designing a major civil/construction engineering project, based on knowledge and skills acquired in earlier course work and incorporating appropriate engineering standards and multiple realistic constraints (e.g., economic, ethical, and safety). One hour lecture, three hours lab. Two credit hours. Spring only.

CNMG 4389/5389 Professional Engineering Licensure
Prerequisite concurrent: Senior standing and registration for the Fundamentals of Engineering exam, or consent of instructor. Legal, regulatory, and ethical issues related to the practice of engineering; preparation for engineering licensure examinations. Two hours lecture. Three hours lab. Three credit hours. Cross listed as SYEN 4389/5389. Offered on demand.

CNMG 4391 Cooperative Education
Prerequisites: junior standing, declared major in construction management or construction engineering, and cumulative GPA of at least 2.50; approval of assignment by department chairperson. Requires at least 200 contact hours on the job. Three credit hours. Offered on demand.

CNMG 4395 Professional Development
Prerequisites: senior standing and consent of instructor. Partnerships between students and nonprofit community organizations will be established. Students use skills in construction management or construction engineering to assist with construction-related projects. Service hours will be established at the beginning of the course. Three credit hours. Offered on demand.

CNMG 4199, 4299, 4399 Special Topics in Construction
Prerequisites: consent of instructor based on relevance of subject matter to student career goals. Designed to meet special needs of students or industry to cover application of construction management or construction engineering to specific problems. Meets equivalent of one hour per week for each credit hour value. May be taken more than once for credit. One, two, or three credit hours. Offered on demand.

CNMG 4100, 4200, 4300 Independent Study
Prerequisite: junior standing. Topic and method of procedure must have approval of the supervising faculty member. Four to six hours per week of work on the project for each hour of credit earned. The exact hourly commitment per week and credit hour value depends on the nature of the project and is agreed on in advance by the student and the instructor. With approval, may be repeated for up to six hours of credit. One, two, or three credit hours. Offered on demand.
Engineering technology emphasizes hands on learning and the practical aspects of engineering. It stresses the understanding and application of established engineering principles to the design, fabrication, and testing of electronic and mechanical products and systems. Engineering technology is a creative blend of the physical sciences, engineering knowledge, methods, and technical skills.

Engineering technology courses emphasize the application of engineering principles to analyze and solve practical engineering problems. Many courses have laboratories and laboratory experience is an integral part of the learning process in the program.

The primary goal of the department is to provide integrated educational opportunities to students whose technological interests and aptitudes are application-oriented. The department fosters applied research, creative design, and service activities, which involve students and faculty. Graduates of the department programs are highly sought after, and are recognized by industry for their practical problem solving skills.

Programs and Areas of Specialization

The department offers Associate of Science and Bachelor of Science degrees in Electronics and Computer Engineering Technology and Mechanical Engineering Technology. The B.S. degrees in Engineering Technology require four years of full-time study and do not require a minor. The AS degrees require two years of full-time study.

The department also offers a Bachelor of Applied Technology with options in Industrial Computing and Manufacturing Management. This program is intended for graduates of the two-year Associate of Applied Science degree programs.

The department also offers minors in Engineering Technology and Computer Integrated Manufacturing.

Admission to the Programs

The minimum requirement for admission is that students are eligible to enroll in MATH 1302 and RHET 1311. As soon as students meet those requirements, it is important that they declare a major and be assigned a faculty advisor in order to graduate in a timely manner. Students intending to major in Engineering Technology may be advised by department faculty advisors before meeting the Department’s minimum requirements.

Scholarships, Co-op, Internship, and Other Employment Opportunities

The department offers a limited number of merit scholarships for continuing students in each program area. Scholarships are offered on the basis of academic record. Cooperative experience (Co-op) and internship arrangements with local industries are also available. The objective is to provide work experience to students within the discipline while allowing the flexibility to pursue a reduced course load. The department makes an effort to accommodate persons with relevant industrial experience or previous college work. Such a student can apply with appropriate support materials to receive academic credit. The number of hours and course equivalencies are to be decided by a faculty advisor and the chair of the department. Credit for some courses may also be earned by departmental examination. The department and the university provide assistance in job placement. Graduates are well accepted by industry because of their knowledge of applied engineering and practical problem solving skills.

Engineering Technology Program Educational Objectives (PEOs)

The Electronics and Computer Engineering Technology and Mechanical Engineering Technology degrees, consistent with the mission of the university and college, provide holistic educational training in engineering technology specialties and prepare the graduates for entry-level positions in industry. The content, depth, and structure of the engineering technology curricula are continually updated and improved based on inputs from the faculty, student body, university and college administration, and industry representatives, so that it can serve the changing needs of its constituencies.

The following program educational objectives have been established for the ECET graduates:
1. The graduates will possess the skills necessary to be productive in their first position in the field and to have successful careers.
2. The graduates will be enabled to achieve increasing levels of leadership and responsibility throughout their careers.
3. The graduates will be enabled to engage in life-long learning.
4. The graduates will demonstrate a respect for diversity and a commitment to professional ethics.
The following program educational objectives have been established for MET graduates:
1. The graduates will possess the analytical & technical skills necessary to be productive early in their first position in the field and to have successful careers in the engineering environment.
2. The graduates will able to achieve increasing levels of leadership and responsibility throughout their careers.
3. The graduates will be enabled to engage in life-long learning.
4. The graduates will demonstrate a respect for diversity and a commitment to professional ethics.
5. The graduates will appreciate the importance of discovery and engage in the development of creative solutions contributing to the well-being and economic development of society.

Engineering Technology Student Outcomes

The Student Outcomes for the Mechanical Engineering Technology program and for the Electronics and Computer Engineering Technology can be found on the Engineering Technology web pages at the following address: ualr.edu/engineeringtechnology/assessment/

Student Professional Societies

Several opportunities exist for students to interact with peers through student chapters of professional societies such as the Institute of Electrical and Electronics Engineers (IEEE), American Society of Mechanical Engineers (ASME), American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), Society for Women Engineers (SWE), and Tau Alpha Pi, the honor society of Engineering Technology. The Industrial Advisory Council of Engineering Technology consists of members from local industry and provides excellent interaction with industry for students and faculty.

Minor in Engineering Technology

The minor in Engineering Technology is available to all UALR students who want to learn about general principles or specific topics in the fields of Mechanical or Electronics & Computer Engineering Technology. Students are required to take eighteen credit hours of approved ETME and/or ECET courses. Students interested should contact an advisor in the Department.

Minor in Computer Integrated Manufacturing

The minor in computer integrated manufacturing requires at least 22 credit hours. The program must include ETME 1300, 2317, 2117, 3328, 3312, 3330, and 4385, and three hours of an approved technical elective.

FAA’s Airway Facilities Collegiate Training

The electronics and computer engineering technology program is an approved site for the Federal Aviation Administration’s (FAA) Airway Facilities Collegiate Training Initiative (AF-CTI). Students selected to participate in the FAA initiative pursue the associate degree program in electronics and computer engineering technology and are required to pass a Basic Electronics Screening Tool (BEST) Test before being hired. For more details, contact the program coordinator of electronics and computer engineering technology.

Electronics and Computer Engineering Technology Program

Professor H. C. Patangia, Coordinator.

The field of electronics and computer engineering technology extends over a wide spectrum of modern applications where knowledge of both electronics and computer hardware/software are equally important. It is essential for many modern industries that graduates work comfortably across the boundaries of both electronics and computers. This curriculum offers a single, unified bachelor’s degree program in electronics and computer engineering technology to prepare students to take on the technological challenges of the 21st century. It provides a strong and comprehensive foundation in both areas, and technical electives are available for students to concentrate in either or both fields depending on their interests. The bachelor’s and associate’s degree programs in electronics and computer engineering technology are accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.

The curriculum requires that students develop a strong background in mathematics, science, and communication skills. In addition, students must master a progressively involved sequence of technical courses, which instill a knowledge of theory, analysis, and practical design. The heavy laboratory emphasis with modern and industry standard equipment provides extensive hands-on experience in a variety of fields including analog and digital electronics, computer networks and systems, microprocessors, telecommunications, embedded systems, robotics, PLCs, industrial control, and signal processing.

The electronics and computer engineering technology program enjoys strong support of the industrial community, and an industrial program advisory board provides periodic input to make changes in program offerings to reflect the changing needs of industries. Local companies provide cooperative education assignments for students to receive meaningful industrial experience while earning both academic credit and income to defray their educational expenses.

Associate of Science Degree

This degree requires two years of study of electronics, computers, science, mathematics, and general academics to prepare students for employment as electronics technicians. Graduates of the program can also apply their credits toward the bachelor of science degree in electronics and computer engineering technology. Two additional years of study are required to meet the requirements for the baccalaureate degree. The Associate of Science degree is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.
**Associate of Science in Electronics and Computer Engineering Technology Curriculum**

**First Semester (15 hours)**
- ECET 1302 Introductory Experience in Technology and Computers
- RHET 1311 Composition I
- MATH 1302 College Algebra
- HIST 2311, 2312 American History
- or POLS 1310 American National Government
- SPCH 1300 Speech Communication

**Second Semester (17 hours)**
- RHET 1312 Composition II
- MATH 1303 Trigonometry
- ECET 1404 Circuit Analysis I
- IFSC 1202 Intro to Object Oriented Technology
- ETME 1300 Computer Graphics
- IFSC 2200 Ethics in the Profession

**Third Semester (17 hours)**
- MATH 1311 Applied Calculus I
- PHYS 1321 Elementary Physics I
- PHYS 1121 Elementary Physics I Laboratory
- ECET 2300 Numerical Methods for Technologists
- ECET 2305 Circuit Analysis II
- ECET 2105 Circuits and Simulation Laboratory
- RHET 3316 Writing for the Workplace
- or RHET 3326 Technical Writing
- or MGMT 3380 Business Communication

**Fourth Semester (17 hours)**
- ECET 2352 Introduction to Digital Systems
- ECET 2152 Introductory Digital Laboratory
- PHYS 1322 Elementary Physics II
- PHYS 1122 Elementary Physics II Laboratory
- ECET 2150 Microprocessor Fundamentals
- ECET 2169 Sophomore Design Project
- ECET 3308 Robotics and PLCs
- ECET 3405 Electronic Devices I

**Bachelor of Science Degree**

The baccalaureate degree program requires the students to complete two additional years beyond the associate of science curriculum. Students receive greater depth and breadth of knowledge in the technical field and more mathematics, humanities, and social science courses are included. A number of technical electives are allowed in the curriculum, and students choose the electives to match their career objectives. No minor is required for the degree. The Bachelor of Science degree is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.

**Bachelor of Science Electronics and Computer Engineering Technology**

**General:** 128 [approved exception] total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**
- Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)
- ECET 1302 Introductory Experience in Engineering and Technology

**Core (29 hours)**
- **Composition/Communication (9 Hours)**
  - RHET 1311 Composition I
  - RHET 1312 Composition II
  - SPCH 1300 Speech Communication
- **Fine Arts/Humanities (5 Hours)**
  - IFSC 2200 Ethics in the Profession
  - Choose one of the following:
    - MUHL 2305 Introduction to Music
    - ARHA 2305 Introduction to Visual Art
    - THEA 2305 Introduction to Theatre and Dance
    - ENGL 2337 World Literature
    - ENGL 2338 World Literature Themes
- **Social Sciences (9 Hours)**
  - Choose one of the following:
    - POLS 1310 American National Government
    - HIST 2311 U.S. History to 1877
    - HIST 2312 U.S. History since 1877
    - Choose one of the following:
      - ANTH 2316 Cultural Anthropology
      - CRJU 2300 Introduction to Criminal Justice
      - ECON 2301 Survey of Economics
      - GEOG 2312 Cultural Geography
      - GNST 2300 Introduction to Gender Studies
      - MCOM 2330 Mass Media and Society
      - POLS 2301 Introduction to Political Science
      - PSYC 2300 Psychology and the Human Experience
      - RELS 2305 World Religions
      - SOCI 2300 Introduction to Sociology
  - **AND**
    - Choose one of the following:
      - HIST 1311 History of Civilization I
      - HIST 1312 History of Civilization II
    - **Additional Upper-level Communications, Humanities, Arts, and Social Sciences (3 Hours)**
      - Specific course selection must be done with the approval of the advisor.
  - **Technical Writing (3 Hours)**
    - Choose one of the following:
      - RHET 3316 Writing for the Workplace
      - RHET 3326 Technical Writing
      - MGMT 3380 Business Communication

**Major (99 hours)**
- **Additional Math and Science courses (20 hours):**
  - MATH 1302 College Algebra
  - MATH 1303 Trigonometry
  - MATH 1311 Applied Calculus I
  - MATH 1312 Applied Calculus II
  - PHYS 1321 Elementary Physics I
**PHYS 1121 Elementary Physics I Laboratory**  
**PHYS 1322 Elementary Physics II**  
**PHYS 1122 Elementary Physics II Laboratory**

**Major Requirements (73 hours):**
- IFSC 1202 Introduction to Object-Oriented Technology
- ETME 1300 Computer Graphics
- CPSC 2376 Programming II
- ECET 1302 Introductory Experience in Engineering and Technology
- ECET 1404 Circuit Analysis I
- ECET 2300 Numerical Methods for Technology
- ECET 2305 Circuit Analysis II
- ECET 2105 Circuits and Simulation Laboratory
- ECET 2352 Introduction to Digital Systems
- ECET 2152 Introduction to Digital Laboratory
- ECET 2150 Microprocessor Fundamentals
- ECET 2169 Sophomore Design Project
- ECET 3308 Robotics and PLC
- ECET 3405 Electronic Devices I
- ECET 3406 Electronic Devices II
- ECET 3350 Microprocessor Systems
- ECET 4407 Digital System Design
- ECET 4450 Embedded Systems
- ECET 3360 Data Acquisition and Sensors
- ECET 3409 Applied Transform Methods
- ECET 4351 System Design
- ECET 4304 Industrial Control
- ECET 4479 Communication Systems
- ECET 4306 Data and Computer Communication
- ECET 4370 Senior Design Project

**Technical Electives (6 hours)**
- To be decided in consultation with advisor

**Minor (None required)**

**Unrestricted General Electives**
- Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

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**Bachelor of Science in Electronics and Computer Engineering Technology**

*(Two Year Program Following the Associate Degree)*

**Fifth Semester (17 hours)**
- CPSC 2376 Advanced Computer Programming
- MATH 1312 Applied Calculus II
- ECET 3406 Electronic Devices II
- ECET 3350 Microprocessor Systems
- ECET 4407 Digital System Design

**Sixth Semester (14 hours)**
- ECET 4450 Embedded Systems
- ECET 3360 Data Acquisition and Sensors
- ECET 3409 Applied Transform Methods
- Fine Arts/Humanities (Satisfies remaining 5-6 hours core Fine Arts/Humanities)

**Seventh Semester (16 hours)**
- ECET 4351 System Design
- ECET 4304 Industrial Controls
- ECET 4479 Communication Systems

**Eighth Semester (15 hours)**
- ECET 4306 Data and Computer Communications
- ECET 4370 Senior Design
- Approved Technical Elective (3 hours)
- Upper Level Humanities, Arts, or Social Sciences (3 hours)
- HIST 1311 History of Civilization I
  or HIST 1312 History of Civilization II

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**Mechanical Engineering Technology Program**

Professor Srikanth Pidugu, Coordinator.

Leadership in corporate America is projected to come from the ranks of technologists who have the breadth of knowledge of design, manufacturing technology, and management skills. UALR’s mechanical engineering technology program provides a strong and comprehensive foundation in these areas and introduces to students the ideas of fabrication processes, management of people and projects, and cost and quality control. The program focuses on fundamental concepts of statics, dynamics, mechanics of materials, and computer two- and three-dimensional graphics of components. The degree program emphasizes product development, design, manufacturing, design of mechanical systems such as thermal power systems, heating, ventilating and air conditioning, and addresses the area of plastics and composites.

The program prepares students for entry-level positions in a variety of career areas in product design, testing, manufacturing, and in plant design and operation. Technical knowledge in the mechanical field is based upon a broad foundation in mathematics, science, and applied science. The program emphasizes applications and extensive hands-on experience in addition to theoretical concepts. In addition to the traditional approach to mechanical design and manufacturing, the program emphasizes computer applications such as computer-aided manufacturing, computer-aided engineering, data acquisition and sensors, robotics, and programmable logic controllers.

UALR’s mechanical engineering technology program enjoys strong support from the industrial community and has a successful cooperative education program with a number of local industries. The cooperative education program allows students to practice in industry, gaining early experience while earning academic credit and income to help with their educational expenses. Students may enroll in the co-op program beginning in their junior year.

The department offers both a two-year associate and four-year bachelor’s degree program. Both are accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.

**Minor in Computer Integrated Manufacturing**

**Required Courses**
- ETME 1300 Computer Graphics
- ETME 2317 Manufacturing Processes
- ETME 2117 Manufacturing Processes Laboratory
- ETME 3312 Production Systems
- ETME 3328 Computer Aided Manufacturing (CAM)
- ETME 3330 Quality Control
- ETME 4385 Robotics and Automation
- Approved technical elective (3 hours)
Associate of Science Degree

The associate of science is a two-year degree program, which provides students with the background and skill for supporting level positions in the mechanical and manufacturing fields. These include computer graphics, computer aided manufacturing and CNC programming, fluid power, technical sales, and plant maintenance. The Associate of Science degree is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.

The curriculum requires students to take courses in mechanical, manufacturing, and electronics and computer engineering technology in addition to mathematics, science, and general education. Students must complete the associate degree program before they are allowed to enroll in the baccalaureate program.

The associate degree in mechanical engineering technology majors may take only up to nine credit hours of junior and senior level courses in the program. Associate degree graduates may transfer their credits toward the bachelor’s degree in mechanical engineering technology.

<table>
<thead>
<tr>
<th>Associate of Science in Mechanical Engineering Technology Curriculum</th>
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<tbody>
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<td><strong>First Semester (13 hours)</strong></td>
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<tr>
<td>ETME 1110 First Year Experience: Introduction to Mechanical Engineering Technology</td>
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<tr>
<td>MATH 1302 College Algebra</td>
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<tr>
<td>RHET 1311 Composition I</td>
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<tr>
<td>HIST 2311, 2312 American History or POLS 1310 American National Government</td>
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<tr>
<td>SPCH 1300 Speech Communication</td>
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<tr>
<td><strong>Second Semester (15 hours)</strong></td>
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<tr>
<td>ETME 1300 Computer Graphics</td>
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<tr>
<td>ECET 1404 Circuit Analysis I</td>
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<td>RHET 1312 Composition II</td>
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<tr>
<td>MATH 1303 Trigonometry</td>
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<tr>
<td>IFSC 2200 Ethics in the Profession</td>
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<tr>
<td><strong>Third Semester (16 hours)</strong></td>
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<tr>
<td>ETME 2303 Computer Aided Design</td>
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<tr>
<td>ETME 2302 Properties of Materials</td>
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<tr>
<td>ETME 3317 Statics and Dynamics</td>
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<tr>
<td>PHYS 1321 Elementary Physics I</td>
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<tr>
<td>PHYS 1121 Elementary Physics Lab I</td>
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<tr>
<td>MATH 1311 Applied Calculus I</td>
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<tr>
<td><strong>Fourth Semester (17 hours)</strong></td>
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<tr>
<td>ETME 2333 Advanced Computer-Aided Design</td>
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<td>ECET 3308 Robotics and PLCs</td>
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<td>ETME 2317 Manufacturing Processes</td>
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<td>ETME 2117 Manufacturing Processes Lab</td>
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<tr>
<td>ETME 2320 Fluid Power</td>
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<tr>
<td>PHYS 1322 Elementary Physics II</td>
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<tr>
<td>PHYS 1122 Elementary Physics II Laboratory</td>
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</table>

Bachelor of Science in Mechanical Engineering Technology

The baccalaureate degree program requires the students to complete two additional years beyond the associate of science curriculum. No minor is required for the degree. The Bachelor of Science degree is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.

Students receive greater depth and breadth of knowledge in the mechanical field, and take additional courses in mathematics, science, humanities, and social science. Students choose technical electives to meet their career goals.

The bachelor of science curriculum requires completion of the associate degree curriculum detailed previously and the requirements detailed in the chart above.

Bachelor of Science in Mechanical Engineering Technology

General: 125 [approved exception] total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)
ETME 1110 First Year Experience: Introduction to Mechanical Engineering Technology

Core (29 hours)

Composition/Communication (9 Hours)
RHET 1311 Composition I
RHET 1312 Composition II
SPCH 1300 Speech Communication
Fine Arts/Humanities (5 Hours)
IFSC 2200 Ethics in the Profession
AND
Choose one of the following:
MUHL 2305 Introduction to Music
ARHA 2305 Introduction to Visual Art
THEA 2305 Introduction to Theatre and Dance
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
Social Sciences (9 Hours)
Choose one of the following:
POLS 1310 American National Government
HIST 2311 U.S. History to 1877
HIST 2312 U.S. History since 1877
AND
Choose one of the following:
ANTH 2316 Cultural Anthropology
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
GEOG 2312 Cultural Geography
GNST 2300 Introduction to Gender Studies
MCOM 2330 Mass Media and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introduction to Sociology
AND
Choose one of the following:
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
Additional Upper-level Communications, Humanities, Arts, and Social Sciences (3 Hours)
Specific upper-level course selection must be done with the approval of the advisor.
Technical Writing (3 Hours)
Choose one of the following:
RHET 3316 Writing for the Workplace
RHET 3326 Technical Writing
MCOM 3380 Business Communication

UALR Undergraduate Catalog
Bachelor of Science in Mechanical Engineering Technology

(Two Year Program Following the Associate Degree)

Fifth Semester (15 hours)
ETME 3312 Production Systems
ETME 3303 Applied Thermal Science
CHEM 1402 General Chemistry I
MATH 1312 Applied Calculus II
IFSC 1202 Intro to Object Oriented Technology

Sixth Semester (18 hours)
ETME 3361 Cost Analysis and Estimation
ETME 3315 Thermal Systems Design
ETME 3328 Computer Aided Manufacturing
ETME 3301 Applied Mechanics of Materials
RHET 3316 Writing for the Workplace
or RHET 3326 Technical Writing
or MGMT 3380 Business Communication
Fine Arts/Humanities (Satisfies part of 5-6 hours core Fine Arts/ Humanities)

Seventh Semester (16 hours)
ETME 4317 Machine Design
ETME 4321 Computer Aided Engineering
ETME 4187 Senior Project I
ETME 3324 Plastics & Composites
HIST 1311 History of Civilization I
or HIST 1312 History of Civilization II
ETME 3311 Mechanical Instrumentation

Eighth Semester (15 hours)
ETME 4387 Senior Project II
ETME 3330 Quality Control
Technical Elective
(Approved technical electives include: ETME 3191, 3291, 3305, 3318, 3322, and 4385.)
Individuals, cultures, and societies core curriculum requirement
Upper-Level Humanities, Arts, or Social Sciences

Courses in Electronics and Computer Engineering Technology
ECET 1302 Introductory Experience in Technology and Computers
A project-based experiential learning course to modern technology through hands-on laboratory activities, team work, and cooperative learning, and problem solving. Five hours of integrated lecture lab. Three credit hours.

ECET 1404 Circuit Analysis I
Prerequisites: MATH 1302. An introduction to DC (direct current) and AC (alternating current) circuit analysis techniques involving resistors, inductors, and capacitors. Other topics include reactance, AC power factor correction, three-phase circuits, and motors. Three hours lecture and three hours lab. Four credit hours.

ECET 2100 Methods of Engineering Computation
Corequisite: MATH 1303. Use of microcomputers for technical data analysis, manipulation, and reports. Application of the computer to engineering problem solving. One hour lecture and one hour lab. One credit hour.

ECET 2105 Circuits and Simulation Laboratory
Corequisite: ECET 2305. Laboratory experiments to supplement classroom instruction in ECET 2305. Introduction to electronics simulation software and its applications to laboratory exercises. Three hours lab. One credit hour.
ECET 2150 Microprocessor Fundamentals
Prerequisites: a grade of C or greater in ECET 1404, sophomore standing. Study includes number systems, basic types of instructions and addressing modes, and an overview of the functional organization inside a microprocessor. One hour lecture. One credit hour.

ECET 2152 Introductory Digital Laboratory
Corequisite: ECET 2352. Lab exercises to provide practical knowledge of logic devices and their applications. One three-hour lab. One credit hour.

ECET 2169 Sophomore Design Project
Prerequisite: sophomore standing. Schematic layout through CAD; PCB design to include SMT components; complete fabrication with mechanical considerations, and casing. Both written report and oral presentation are required. Three hours lab. One credit hour.

ECET 2191 Cooperative Education
Prerequisites: sophomore standing in engineering technology and approval of department's chairperson; cumulative GPA of 2.50; minimum GPA of 2.30 for previous semester. Industrial experience under supervision of faculty advisor to supplement course work. Students who take this course may not take 2291. Requires at least 240 contact hours on the job. One credit hour.

ECET 2291 Cooperative Education
Prerequisites: sophomore standing and approval of department's chairperson; cumulative GPA of 2.50; minimum GPA of 2.30 for previous semester. Industrial experience under supervision of advisor to supplement course work. Students who take this course may not take 2191. Requires at least 480 contact hours on the job. Two credit hours.

ECET 2300 Numerical Methods for Technologists
Prerequisite: IFSC 1202 or equivalent. Corequisite: MATH 1311. An introductory course in symbolic language programming with application to engineering problems. Related material in numerical methods of solution is presented. Five hours of combined lecture and laboratory. Three credit hours.

ECET 2305 Circuit Analysis II
Prerequisites: grades of C or greater in ECET 1404, MATH 1303. Network theorems applied to the steady-state response of DC (direct current) and AC (alternating current) circuits. The application of complex impedance and phasors to the solution of AC circuits. Transients in RC and RL circuits. Three hours lecture. Three credit hours.

ECET 2330 Electronics and Controls
Prerequisite: a grade of C or greater in ECET 2405. Intended for majors other than electronics and computer engineering technology. Fundamental elements of power electronics needed to understand the operation and maintenance of electronic equipment. Introduction of power semiconductor devices including diodes and thyristors. The electronic control of motors, including diodes, BJTs, and op-amps. Includes load lines, biasing, and transistor switching characteristics. Laboratory exercises also include computer simulation. Three hours lecture, three hours lab. Three credit hours.

ECET 2352 Introduction to Digital Systems
Prerequisite: a grade of C or greater in ECET 1404 or equivalent. Introduction to digital circuits and systems. Number systems, Boolean algebra, and applications of basic logic gates; exercises in analysis and design of combinational and sequential logic circuits, including decoders, multiplexers, flip-flops, registers, and counters. Microprocessor architecture software and programming. Three hours lecture. Three credit hours.

ECET 2405 Electrical Technology
Prerequisite: grade of C or greater in MATH 1303. Corequisites: PHYS 1322 and 1122. An introductory course in electrical technology for majors other than electronics and computer engineering technology. A review of basic quantities including current, voltage, power, and energy. An introduction to machines and transformers, including direct current motors, induction motors, step motors, synchronous generators, and transformers. Three hours lecture, three hours lab. Four credit hours.

ECET 3191 Cooperative Education
Prerequisites: junior standing in engineering technology and approval of department's chairperson; cumulative GPA of 2.50, minimum GPA of 2.30 for previous semester. Industrial experience under supervision of advisor to supplement course work. Students who take this course may not take 3291. Requires at least 240 contact hours on the job. One credit hour.

ECET 3204 Industrial Controls
Prerequisites: a grade of C or greater in ECET 4407. A detailed study of industrial controls based around microcontrollers. Practical applications are emphasized. Topics include interface devices, such as opto-isolators and solid state relays. Two hours lecture, three hours lab. Three credit hours.

ECET 3207 Industrial Controls
Prerequisites: a grade of C or greater in ECET 4407. A detailed study of industrial controls based around microcontrollers. Practical applications are emphasized. Topics include interface devices, such as opto-isolators and solid state relays. Two hours lecture, three hours lab. Three credit hours.

ECET 32150 Microprocessor Fundamentals
Prerequisites: a grade of C or greater in ECET 1404, sophomore standing. Study includes number systems, basic types of instructions and addressing modes, and an overview of the functional organization inside a microprocessor. One hour lecture. One credit hour.

ECET 32152 Introductory Digital Laboratory
Corequisite: ECET 2352. Lab exercises to provide practical knowledge of logic devices and their applications. One three-hour lab. One credit hour.

ECET 32169 Sophomore Design Project
Prerequisite: sophomore standing. Schematic layout through CAD; PCB design to include SMT components; complete fabrication with mechanical considerations, and casing. Both written report and oral presentation are required. Three hours lab. One credit hour.

ECET 32191 Cooperative Education
Prerequisites: sophomore standing in engineering technology and approval of department's chairperson; cumulative GPA of 2.50; minimum GPA of 2.30 for previous semester. Industrial experience under supervision of faculty advisor to supplement course work. Students who take this course may not take 2291. Requires at least 240 contact hours on the job. One credit hour.

ECET 32291 Cooperative Education
Prerequisites: sophomore standing and approval of department's chairperson; cumulative GPA of 2.50; minimum GPA of 2.30 for previous semester. Industrial experience under supervision of advisor to supplement course work. Students who take this course may not take 2191. Requires at least 480 contact hours on the job. Two credit hours.

ECET 32300 Numerical Methods for Technologists
Prerequisite: IFSC 1202 or equivalent. Corequisite: MATH 1311. An introductory course in symbolic language programming with application to engineering problems. Related material in numerical methods of solution is presented. Five hours of combined lecture and laboratory. Three credit hours.

ECET 32305 Circuit Analysis II
Prerequisites: grades of C or greater in ECET 1404, MATH 1303. Network theorems applied to the steady-state response of DC (direct current) and AC (alternating current) circuits. The application of complex impedance and phasors to the solution of AC circuits. Transients in RC and RL circuits. Three hours lecture. Three credit hours.

ECET 32330 Electronics and Controls
Prerequisite: a grade of C or greater in ECET 2405. Intended for majors other than electronics and computer engineering technology. Fundamental elements of power electronics needed to understand the operation and maintenance of electronic equipment. Introduction of power semiconductor devices including diodes and thyristors. The electronic control of motors, including diodes, BJTs, and op-amps. Includes load lines, biasing, and transistor switching characteristics. Laboratory exercises also include computer simulation. Three hours lecture, three hours lab. Three credit hours.

ECET 32352 Introduction to Digital Systems
Prerequisite: a grade of C or greater in ECET 1404 or equivalent. Introduction to digital circuits and systems. Number systems, Boolean algebra, and applications of basic logic gates; exercises in analysis and design of combinational and sequential logic circuits, including decoders, multiplexers, flip-flops, registers, and counters. Microprocessor architecture software and programming. Three hours lecture. Three credit hours.

ECET 32405 Electrical Technology
Prerequisite: grade of C or greater in MATH 1303. Corequisites: PHYS 1322 and 1122. An introductory course in electrical technology for majors other than electronics and computer engineering technology. A review of basic quantities including current, voltage, power, and energy. An introduction to machines and transformers, including direct current motors, induction motors, step motors, synchronous generators, and transformers. Three hours lecture, three hours lab. Four credit hours.

ECET 32419 Special Technology I
Prerequisite: consent of instructor based on relevance of subject matter to student career goals. Designed to meet special needs of students or industry to cover application of technology to specific industrial problems. Meets equivalent of one hour. One credit hour.

ECET 32430 Industrial Controls
Prerequisites: a grade of C or greater in ECET 4407. A detailed study of industrial controls based around microcontrollers. Practical applications are emphasized. Topics include interface devices, such as opto-isolators and solid state relays. Two hours lecture, three hours lab. Three credit hours.
ECET 4306 Data and Computer Communications
Prerequisite: a grade of C or greater in ECET 3409. Discusses principles and practices in data communications with emphasis on the hardware aspects of data communication. Topics include transmission, encoding, decoding, data interfacing, error detection and correction, link control, networking and protocols. Internet working over the internet. Three hours of lecture. Three credit hours.

ECET 4309 Applied Signal Processing
Prerequisite: grade of C or greater in ECET 4309. A hands-on experience to digital signal processing through laboratory exercises in a computer environment. Sampling theorem, discrete-time signals and systems, DFT, FFT, and digital filters. Two hours of lecture and two hours lab. Three credit hours.

ECET 4351 System Design
Prerequisites: grades of C or greater in ECET 3409 and 4450, or consent of instructor. Methods of approaching design problems, software control of hardware, modeling of applications, hardware/software trade-offs in the design process. Students work in teams to solve a substantive design problem. The course integrates at the system level the hardware/software knowledge of the electronics and computer engineering technology major. Three hours lecture. Three credit hours.

ECET 4353 Optical Electronic Devices and Systems
Prerequisites: grades of C or greater in ECET 3406 and 4407. Applications of optoelectronic devices to communications, robotics, and automated manufacturing. Two hours lecture, two hours lab. Three credit hours.

ECET 4354 Computer Hardware Architecture
Prerequisites: grades of C or greater in ECET 3350, 4407. Study of the various hardware designs and their relationship to architecture. Includes an overview of mainframe, supercomputers, and multicomputers. Three hours lecture. Three credit hours.

ECET 4362 Real-Time Systems
Prerequisites: grades of C or greater in ECET 3350 and CPSC 2376 or equivalents. Real-time specification and design techniques, real-time kernels, interset communication and synchronization, real-time memory management, system performance analysis and optimization. Three hours lecture. Three credit hours.

ECET 4363 Network Technology and Management
Prerequisite: grade of C or greater in ECET 4306. A continuation of the studies of the principles and practices in data communication and includes topics such as switches and switching fabric, frame relay, ATM, and emerging technologies. Protocols and techniques for monitoring and managing computer networks, and computer security issues are discussed. Two hours lecture and two hours lab. Three credit hours.

ECET 4370 Senior Design Project
Prerequisite: grade of C or greater in ECET 4351. Students work independently with a faculty mentor on a design/research problem. The project could be developed through industry collaboration, faculty research, or at the student’s own initiative through literature search. The project requires electronics and computer engineering technology faculty approval, formal oral and written presentation, and demonstration of the project. Students meet with the mentor weekly to discuss their designs. Five hours lab. Three credit hours.

ECET 4399 Special Technical Topics III
Prerequisite: consent of instructor based on relevance of subject to student career goals. Designed to meet special needs of students or industry to cover application of technology to specific industrial problems. Meets equivalent of three hours. Three credit hours.

ECET 4407 Digital System Design
Prerequisites: grades of C or greater in ECET 2300, 2352, 2152, and 3405. Advanced concepts in digital system design to include programmable devices, and state machines using HDL. Laboratory projects include computer simulation. Three hours lecture, three hours lab. Four credit hours.

ECET 4450 Embedded Systems
Prerequisites: grades of C or greater in ECET 3350 and 4407. Techniques for interfacing micros to outside devices. Detailed analysis of bus standards, serial and parallel input/output to peripherals. Laboratory includes the application of interfacing techniques to build a microcomputer and interface it to outside devices. Three hours lecture, three hours lab. Four credit hours.

ECET 4479 Communication Systems
Prerequisites: grades of C or greater in ECET 3406 and 3409. Spectral analysis of signals; noise; linear modulation and demodulation; AM, SSB, angle modulation and demodulation; phase locked loops, and digital communication techniques. Three hours lecture, three hours lab. Four credit hours.

ECET 4480 Digital Communication
Prerequisite: a grade of C or greater in ECET 4479. Advanced study of techniques and hardware employed in digital, microwave, satellite, and fiber optic communications. Three hours lecture, three hours lab. Four credit hours.

Courses in Mechanical Engineering Technology

ETME 1110 FYE: Mechanical Engineering Technology
Review of educational goals. Management of time. Balancing work and course load. Use of campus resources. Planning educational and experience goals, including cooperative education, licensing and certification. Role and practice of engineering technology including career paths in Mechanical Engineering Technology. Two-hour lab, 1 credit hour. Course is a graduation requirement but not a degree requirement.

ETME 1300 Computer Graphics
Study of graphics and the types of engineering drawings used in design. Sketching and computer aided design tools are used to create the various types of views needed for design and documentation. Two hours lecture and three hours lab. Three credit hours.

ETME 2117 Manufacturing Processes Laboratory
Corequisite: ETME 2317. Introduction to machine shop equipment and processes; metal fabricating applications, including metal cutting, such as turning, drilling, milling; welding, and measurement and inspection. Course project and the application of Ethics and safety in design and manufacturing. One three-hour lab, One credit hour.

ETME 2191 Cooperative Education
Prerequisites: sophomore standing in engineering technology and approval of department’s chairperson; cumulative GPA of 2.50; minimum GPA of 2.30 for previous semester. Industrial experience under supervision of faculty advisor to supplement course work. Students who take this course may not take 2291. Requires at least 240 contact hours on the job. One credit hour.

ETME 2291 Cooperative Education
Prerequisites: sophomore standing and approval of department’s chairperson; cumulative GPA of 2.50; minimum GPA of 2.30 for previous semester. Industrial experience under supervision of advisor to supplement course work. Students who take this course may not take 2191. Requires at least 480 contact hours on the job. Two credit hours.

ETME 2302 Properties of Materials
Prerequisites: RHET 1311, MATH 1302, or consent of instructor. Physical structure of metals, properties, testing, phase diagrams, and applications. Ferrous metals, metal treatment, nonferrous metals, corrosion, plastics, other engineering materials and applications. Two hours lecture, two hours lab. Three credit hours.

ETME 2303 Computer-Aided Design (CAD)
Prerequisites: a grade of C or greater in ETME 1300 and basic computer skills, or consent of instructor. A study of 2D and 3D computer aided design software used in industry. Detailed and working drawings, and design documentation using CAD. Importing and exporting CAD data is covered as well as various methods of output. Introduction to 3D modeling. Two hours lecture, three hours lab. Three credit hours.

ETME 2310 Applied Statics
Corequisite: MATH 1311. An analysis of force systems applied to rigid bodies at rest. Application of principles on computation of reactions, shears, moments, and forces for simple structures. Centroids and moments of inertia are included. Two hours lecture, two hours lab. Three credit hours.
ETME 2317 Manufacturing Processes
Corequisite: ETME 2117. Traditional manufacturing processes such as casting, forging, cold working; metal removal processes such as turning, milling, drilling, finishing processes, metal joining, and plastics. Manufacturing process laboratory course is available. Three hours lecture. Three credit hours.

ETME 2320 Fluid Mechanics and Power
Prerequisite: a grade of C or greater in MATH 1303. Hydraulics and pneumatics; the flow of water, air, and oil; calibration of metering devices; elementary hydraulic tests; friction and energy loss; and devices for making fluid measurements. Two hours lecture, two hours lab. Three credit hours.

ETME 2333 Advanced Computer-Aided Design
Prerequisites: a grade of C or greater in ETME 2303, or consent of instructor. Graphic design process using an interactive computer-aided design system. Includes sophisticated functions to develop, investigate, analyze, and size design, or assign additional dimensional capabilities of CAD/CAM systems in advanced design situations. Calculation and analysis programs are used to improve the students’ design. Students work on design problems related to their chosen field using the CAD system. Two hours lecture, three hours lab. Three credit hours.

ETME 3191 Cooperative Education
Prerequisites: junior standing in engineering technology and approval of department’s chairperson; cumulative GPA of 2.50, minimum GPA of 2.30 for previous semester. Industrial experience under supervision of advisor to supplement course work. Students who take this course may not take 3291. Requires at least 240 contact hours on the job. One credit hour.

ETME 3291 Cooperative Education
Prerequisites: junior standing in engineering technology and approved department’s chairperson; cumulative GPA of 2.50; minimum GPA of 2.30 for previous semester. Work experience related to student objectives under supervision of advisor. Students who take this course may not take 3191. Requires at least 480 contact hours on the job. Two credit hours.

ETME 3300 Independent Study
Prerequisite: consent of instructor. Study of assigned topics chosen to develop, investigative, analytical, and report writing skills related to engineering. The student spends 8 to 10 hours per week on the project. The exact hourly commitment depends on the complexity of the project and is agreed on in advance by the student and the instructor. Three credit hours.

ETME 3301 Applied Mechanics of Materials
Prerequisites: ETME 2302, a grade of C or greater in ETME 3317 or consent of the instructor. Topics include stress and strain, direct and shear stresses, torsion, bending, deflection, columns, and riveted, bolted, and welded joints. Three hours lecture. Three credit hours.

ETME 3303 Applied Thermal Science
Prerequisites: PHYS 1321 and ETME 2320. Basic thermal properties and heat transfer modes. Theory, operation, and selection of thermal industrial equipment including engines, furnaces, and heat exchangers. Two hours lecture, two hours lab. Three credit hours.

ETME 3305 Industrial Energy Utilization
Prerequisites: ETME 2317, 3303, and ECET 3308, or consent of instructor. Study of the efficient utilization of energy in manufacturing and industrial applications. Components of an energy conservation program, assessments of existing processes, analysis and application of energy conservation techniques. One hour lecture and five hours lab. Three credit hours.

ETME 3306 Solar Energy Systems
Prerequisite: a grade of C or greater in ETME 3303. Analysis of solar energy systems and methods of determining the capacity and functional requirements of system elements in terms of applications. Two hours lecture, two hours lab. Three credit hours.

ETME 3307 Applied Dynamics
Prerequisite: a grade of C or greater in ETME 2310. Topics include scalar treatment of kinematics and kinetics of particles, rigid bodies in planar motion, Newton’s laws, work and energy, impulse and momentum, impact, and vibration. Two hours lecture, two hours lab. Three credit hours.

ETME 3311 Mechanical Instrumentation
Prerequisites: ETME 3301, 3303, ECET 3308, and IFSC 1202, or consent of instructor. Measurement of mechanical phenomena including stress, strain, deflection, temperature, pressure, and flow. Automatic data acquisition and handling. Applications to process monitoring and product testing. Two hours lecture, three hours laboratory. Three credit hours.

ETME 3312 Production Systems
Prerequisites: ETME 2117, ETME 2317, ETME 1300, or consent of instructor. Study of production and system design. Planning and applications. System planning for products and services. Operational planning, Just-In-Time (JIT), Total Quality Management (TQM), process control, and system management. System analysis and computer simulation. Facility planning. Three hours lecture. Three credit hours.

ETME 3313 Tool Design
Prerequisites: grades of C or greater in ETME 2117, 2317, MATH 1303. Optimum uses of tool function, geometry, design applications, cutting tools, gages, jigs and fixtures, punch press tools, plastic tools, and special production tools for N/C machines. Two hours lecture, three hours lab. Three credit hours.

ETME 3314 Metallurgy Applications
Prerequisite: a grade of C or greater in ETME 2302. Study of the principles relating crystalline structure to chemical, physical, and electrical properties of metals and alloys. The testing, heat treating, and engineering applications of ferrous and nonferrous alloys are considered. Three hours lecture. Three credit hours.

ETME 3315 Thermal Systems Design
Prerequisite: ETME 3303. Study of air conditioning, refrigeration, steam, fluid, thermal systems, and heat transfer processes for commercial and industrial applications. Emphasis is on systems design, operation, and component selection and specification. Two hours lecture, two hours lab. Three credit hours.

ETME 3317 Statics and Dynamics
Prerequisite or corequisite: MATH 1311, 1451, or equivalent. Engineering mechanics involving the study of both statics and dynamics. The equilibrium of bodies at rest or moving with constant velocity and bodies that have a change of motion. Three hours lecture and lab. Two hours of lecture and two hours of lab. Three credit hours.

ETME 3318 Industrial and Environmental Safety
Prerequisites: grades of C or greater in ETME 2117, 2317, or consent of instructor. Need and justification for safety in the work place. Legal aspects of safety and the OSHA Act. Environmental requirements and emission standards. Scope of human factors and safety management. Planning and implementation of safety programs to control various industrial hazards such as mechanical, electrical, fire, noise, and toxic substance. Three hours lecture. Three credit hours.

ETME 3319 Plant Layout
Prerequisite: a grade of C or greater in ETME 2317. Principles of facilities planning as applied to selection and location of equipment. Batch and continuous flow. Two hours lecture, three hours lab. Three credit hours.

ETME 3322 Project Management
Prerequisite: MATH 1302. Study of project planning and scheduling using the network methods as presented by PERT and CPM. Network planning, solution methods, and practical applications. Probabilistic time estimates, resource leveling, cost optimization, and cost control techniques. Includes application of computer solution methods. Three hours lecture. Three credit hours.

ETME 3323 Materials Handling and Plant Layout
Prerequisite: grade of C or greater in ETME 2317. Production, distribution and service systems, material flow and the role of material handling. Material handling principles, analysis techniques, and equipment planning. Plant layout and design. The course includes use of various case studies and the application of computer methods. Three hours lecture. Three credit hours.

ETME 3324 Plastics and Composites
Prerequisite: CHEM 1402 or consent of the instructor. Introduction to plastics part design, materials, production methods, tooling, and equipment. Process cost analysis and optimization. Three hours lecture. Three credit hours.
ETME 4328 Computer Aided Manufacturing (CAM)  
Prerequisites: grades of C or greater in ETME 2303, 2333, and 2317. A study of the programming standards used in industry to control NC and CNC equipment. G and M codes, as well as specific control commands used in manual program. Computer aided design and manufacturing software to generate part geometry and tool path information. Preparation of final program used by the CNC controllers to machine the designed parts. Two hours lecture, three hours lab. Three credit hours.

ETME 4339 Process Planning  
Prerequisites: grades of C or greater in ETME 2117, 2317. Analytical models and techniques as applied to manufacturing processing, cost estimating, tooling, and materials selection. Problems involving manufacturing, planning, and control. Two hours lecture, one hour lab. Three credit hours.

ETME 4330 Quality Control  
Prerequisites: grades of C or greater in ETME 2117, 2137; MATH 1302. Statistical foundation for modern quality control. Process control techniques and applications. Product specifications and process capability. Planning and application of acceptance sampling including such plans as the Dodge-Romig, military standards 105 and 414. Computer application problems. Three hours lecture, one hour lab. Three credit hours.

ETME 4361 Cost Analysis and Estimation  
Prerequisite: ETME 3312. Cost estimation methods including labor, material, and overhead. Product, project, and system cost estimation. Estimate sensitivity and contract consideration. Cost-performance analysis and improvement techniques. Bench marking as means of gauging cost and quality performance. Three hours lecture, three credit hours.

ETME 4185 Robotics Laboratory  
Prerequisite or corequisite: a grade of C or greater in ETME 4385. Robot set-up and programming using control pendant, programmable controllers, ARM BASIC and AML2 languages. Robot capabilities including positioning accuracy, repeatability, and compliance. Robot manufacturing tasks including sorting, machine loading, and assembly. Vision system and applications. One three-hour lab. One credit hour.

ETME 4187 Senior Project I  
Prerequisite: ETME 3301. Corequisite: ETME 4317. Product design/manufacturing cycle, the design process from market research through production and service, Concurrent engineering, design evaluation, and ethics in design and manufacturing. Project selection and planning for the second phase of the senior project to be completed in ETME 4387, One hour lecture, One hour lab. One credit hour.

ETME 4195, 4295, 4395 Technology Internship  
Prerequisite: junior standing in Engineering Technology, cumulative GPA of 2.50, minimum GPA of 2.30 for previous semester, approval of assignment by advisor. Professional experience related to student’s discipline under supervision of advisor. Credit hours based on internship work experience hours. One credit hour (ETME 4195) for 80 hour work assignment, two credit hours (ETME 4295) for 160 hour work assignment, or three credit hours (ETME 4395) for 240 hour work assignment. One, two, or three credit hours.

ETME 4199 Special Technical Topics I  
Prerequisite: consent of instructor. Designed to meet special needs of students or industry to cover application of technology to specific industrial problems. Meets equivalent of one hour. One credit hour.

ETME 4309 Production Control  
Prerequisite: senior standing. Traditional operations research approach to production control and some of its limitations. Modern role of computer in material requirements planning (MRP). Master scheduling, capacity planning, dispatching, and shop floor control. Forecasting, order quantity planning and inventory management, Just-In-Time production. Three hours lecture. Three credit hours.

ETME 4317 Machine Design  
Prerequisite: ETME 3301. Basic procedures of engineering machine design from concept to specifications. Material selection, tolerances, variable loads and stress concentrations, combined stresses, shaft design, couplings, bearings, gears, power transmitting elements, brakes, clutches, and welded joints. Emphasis on a logical procedure for the design of a complete machine, its components, their functions and layout. Two hours lecture, three hours lab. Three credit hours.

ETME 4319 Plant Engineering  
Prerequisite: ETME 3315 or consent of instructor. A practicum on the design and operation of mechanical systems for commercial and industrial applications. Thermal processes, waste water, ducts, piping, and other mechanical systems. Plant operation and maintenance. Two hours lecture. Two hours lab. Three credit hours.

ETME 4321 Computer Aided Engineering (CAE)  
Prerequisites: ETME 2333, and ETME 3301, or consent of instructor. Designed to meet special needs of students or industry to cover application of technology to specific industrial problems. Three credit hours.

ETME 4383 Method-Time Analysis  
Prerequisites: grades of C or greater in ETME 2117, 2317; MATH 1302. Industrial engineering, design of work methods; time study, performance rating, work sampling and introduction to predetermined and computerized time-data systems. Applications to incentive plans and measured day work. Participative productivity improvement such as gainsharing and quality circles. Two hours lecture, two hours lab. Three credit hours.

ETME 4384 Die Casting  
Prerequisites: grades of C or greater in ETME 2317, 2302. Topics include heat flow, dimensional repeatability, metallurgy, molten metal systems, process control, cost estimating, operating the die casting machine, and safety. Two hours lecture, two hours lab. Three credit hours.

ETME 4385 Robotics and Automation  
Prerequisites: ETME 3312; knowledge of computer programming or consent of instructor. Industrial robots, types, and method of control and programming. Automation and application to various industrial processes. Human factors considerations. Robot system planning and justification. Two hours lecture, two hours laboratory. Three credit hours.

ETME 4386 Maintenance Management  
Prerequisites: ETME 2117, 2317. Design of work methods; time study, performance rating, work sampling and introduction to predetermined and computerized time-data systems. Applications to incentive plans and measured day work. Participative productivity improvement such as gainsharing and quality circles. Two hours lecture, two hours lab. Three credit hours.

ETME 4387 Senior Project II  
Prerequisites: ETME 3312, 4317, and 4187, or consent of instructor. Design problems obtained from industry, current applied research, or student’s own initiative are researched in advance, and assigned as senior projects. Problems are defined, analyzed, design solved, and a final report presented. Final reports include design calculations, drawings, production plans, and may, depending on the scope of the project, be demonstrated and tested using a prototype. One hour lecture and three hours lab. Three credit hours.

ETME 4388 Manufacturing Systems Design  
Prerequisites: a grade of C or greater in ETME 4170, senior standing. Manufacturing problems obtained from actual industrial situations are assigned to senior students. Each problem is analyzed, designed, and presented orally and in a formal written report by the student. Student reports include drawings, manufacturing plans, cost, and schedule and may be demonstrated by a prototype whenever possible. One hour lecture, three hours lab. Three credit hours.

ETME 4399 Special Technical Topics III  
Prerequisite: consent of instructor based on relevance of subject to student career goals. Designed to meet special needs of students or industry to cover application of technology to specific industrial problems. Three credit hours.
The Department of Information Science seeks to expand human and technical capabilities through information in a world where information is of central importance to personal, organizational, social, political, technical, and economic progress. Information Science makes sense of the data that people gather through information technology. The programs that reside in the Department of Information Science focus on the transformation of data to information and knowledge, to intelligence and application, and on the technologies and systems that store and access the data in ways that impart its meaning.

The information science program combines the techniques of computer science with the knowledge of information management to produce graduates who are qualified for professional positions in the information technology field. Students develop the skills needed for creating more efficient and effective information systems, designing better information products, managing and securing data resources, and dealing with emerging information technologies. Graduates find positions as solution developers, database administrators, network specialists, application programmers, systems analysts, and web specialists.

The information science experience emphasizes laboratory environments and hands-on projects using appropriate software to aid in understanding the theory. An additional goal of the information science curriculum is to develop communication and team skills of students. For this reason some courses have a writing component evidenced by the use of essays, written reports, and oral presentations. Other courses reinforce the importance of group dynamics through completion of team projects.

Majors and minors available through the Department of Information Science are as follows:
- Bachelor of Science in Information Science
- Bachelor of Science in E-Commerce
- Minor in Bioinformatics
- Minor in Information Technology

General Information

The Information Science undergraduate degree program emphasizes the design and development of information systems using a variety of technologies (web, server, desktop, mobile) to provide people with the data that they need for effective decision making. Our Bachelor of Science in E-Commerce combines web technologies, business, and a strong liberal arts foundation to prepare students for careers in web and social media management. Minors in Information Technology as well as in Bioinformatics help round out the department’s offerings. Our department also offers graduate study opportunities in Information Quality, Technology Innovation, Integrated Computing (Information Science and Information Quality Tracks) and Bioinformatics.

In concert with UALR’s mission to serve and strengthen society by enhancing awareness in scientific, technical, and cultural arenas, and the Donaghey College’s mission to educate the next generation of professionals in the skills and knowledge base necessary to create and manage technology-based enterprises, the Department of Information Science is committed to fostering the use of information through better systems and technologies in the State of Arkansas and the nation by:

- Educating students in the use of current information and communication technologies and in the design and development of systems and technologies for better processing and use of information.
- Offering degree and certification programs that prepare graduates to pursue successful careers and to continue lifelong learning in Information Science.
- Conducting research to advance the field of Information Science in a way that supports applications of information technologies.

Major in Information Science

The Bachelor of Science in Information Science requires at least 39 hours of information science and an additional 12 hours of IFSC specialization electives. Courses eligible for specialization elective credit must focus on a specific topic relevant to information systems and therefore are normally upper-level courses in information science, computer science, business, and relevant courses in other areas. A minor is not required for this curriculum.
Bachelor of Science in Information Science

General: 120 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (1 hour)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)
IFSC 1105 First Year Experience for Information Science Majors

Core (29 hours)
Composition/Communication (9 Hours)
RHET 1311 Composition I
RHET 1312 Composition II
SPCH 1300 Speech Communication

Fine Arts/Humanities (5 Hours)
IFSC 2200 Ethics in the Profession

Choose one of the following:
MUHL 2305 Introduction to Music
ARHA 2305 Introduction to Visual Art
THEA 2305 Introduction to Theatre and Dance
ENGL 2337 World Literature
ENGL 2338 World Literature Themes

Social Sciences (9 Hours)
Choose one of the following:
POLS 1310 American National Government
HIST 2311 U.S. History to 1877
HIST 2312 U.S. History since 1877
AND
PSYC 2300 Psychology and the Human Experience

Choose one of the following:
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II

Additional Upper-Level Communications, Humanities, Arts, and Social Sciences (3 Hours)
Specific course selection must be done with the approval of the advisor.

Technical Writing (3 Hours)
RHET 3316 Writing for the Workplace
RHET 3326 Technical Writing

Major (91 hours)
Additional Math courses (14 hours):
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2310 Discrete Mathematics
STAT 3352 Applied Statistics

Additional Science Courses (8 hours):
Technical science courses with laboratory. All 8 credits must be from a single science discipline.

Additional Requirements (18 hours)
ECON 2301 Survey of Economics
or ECON 2322 Microeconomics
ACCT 2310 Principles of Accounting
MKTG 3350 Principles of Marketing
MGMT 3300 Organizational Behavior and Management
MGMT 4331 Management of Information Resources
MGMT 3320/3362/4361/4372/4377 or MKTG 2380 (or other approved Business course)

Major Requirements (39 hours):
IFSC 1202 Introduction to Object Oriented Technology
IFSC 1310 Internet Technologies
IFSC 2300 Object Oriented Technology
IFSC 2305 Computer Systems
IFSC 2315 Information System Software
IFSC 2340 Human Computer Interface
IFSC 3300 Internet Applications
IFSC 3315 Applied Networking
IFSC 3320 Database Concepts
IFSC 3330 Current Trends in Database Technology
IFSC 3360 System Analysis and Design
IFSC 4396 Capstone Project I
IFSC 4398 Capstone Project II

Information Science Specialization Electives (12 hours)
To be selected in consultation with advisor

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bioinformatics Program
Bioinformaticists research, develop, and apply computational tools and approaches for analyzing and thus expanding the use of biological, medical, behavioral, and health data. Many of the advances in the life sciences have been made possible through the application of bioinformatics (e.g., the assembly of the human genome). The preponderance of massive amounts of data generated in sequencing labs, microarray facilities, population studies, and ecological analyses provides many opportunities for using information science techniques to manage the data and gain new insights into the knowledge it contains.

The bioinformatics minor at UALR trains students in the areas of information science and biology and prepares them to apply computational techniques to a variety of life science areas. Building upon a student’s major in biology, computer science, or information science, students are prepared to work in this exciting, fast-growing, and interdisciplinary field.

Minor in Bioinformatics
For students or professionals who have completed, or are completing an undergraduate major in biology, computer science, or information science, the minor in bioinformatics consists of 18 credit hours. All courses must be completed with a grade of C or greater. Students without a strong and current background in biology or information/computer science may need to complete up to 29 credit hours.

Students should check with the Biology, Chemistry, and Information Science departments regarding appropriate prerequisites and course sequencing for all courses in the minor. Information Science students should select CHEM 1402 and 1403 for their science requirement, thereby meeting the CHEM 2450 prerequisite. For waiver of prerequisite requirements based on demonstrated competencies, contact the Chair of the Information Science Department.
Bioinformatics Minor

Required Courses (7 hours):
- BINF 2345 Introduction to Bioinformatics
- BINF 4445 Bioinformatics Theory and Applications

Additional Courses Required for Information Science or Computer Science Students (11 hours):
- CHEM 2450 Organic Survey
- BIOL 2401 Microbiology
- BIOL 3300 Genetics

Additional Courses Required for Biology Students (11 hours):
- IFSC 1202 Introduction to Object-oriented Technology
  or equivalent programming course
- IFSC 1310 Internet Technologies
- IFSC 2300 Object-oriented Technology
  or equivalent programming course
- IFSC 3320 Database Concepts
  or CPSC 3375 Database Concepts I

Additional Courses or Demonstrated Competencies Required for Students in Other Majors (up to 22 hours):
- CHEM 2450 Organic Survey
- BIOL 2401 Microbiology
- BIOL 3300 Genetics
- IFSC 1202 Introduction to Object-Oriented Technology
  or equivalent programming course
- IFSC 1310 Internet Technologies
- IFSC 2300 Object-oriented Technology
  or equivalent programming course
- IFSC 3320 Database Concepts
  or CPSC 3375 Database Concepts I

Courses in Bioinformatics (BINF)

BINF 2345 Introduction to Bioinformatics
Prerequisites: MATH 1302 and computer literacy or consent of instructor. This course introduces the student to bioinformatics: the application of information science to studies in the life sciences. Through a survey of the basic sciences influencing computational biology and an overview of information science strategies applicable to the life, medical, and health sciences, an interdisciplinary approach to understanding the evolving field of bioinformatics is developed. Two hours of lecture and two hours of laboratory per week. Three credit hours.

BINF 4445 Bioinformatics Theory and Applications
Prerequisites: Consent of instructor or the following: BIOL 3300, IFSC 3320, IFSC 2300, and STAT 3352 or equivalents. BINF 2345 is recommended. An overview of concepts central to the study and application of bioinformatics drawing upon the fields of biostatistics, computer and information science, and the life sciences. Dual-listed in the UALR Graduate Catalog as BINF 5445. Three hours of lecture and two hours laboratory per week. Four credit hours.

Major in E-Commerce
The Bachelor of Science in E-Commerce is an interdisciplinary degree that blends web/social media technologies, business, and the liberal arts. It draws its curriculum from the existing course catalogs of several colleges:
- Engineering and Information Technology;
- Business;
- Arts, Humanities, and the Social Sciences;
- College of Professional Studies;
- College of Science.

The degree can be completed either at the UALR Main Campus or at the UALR Benton Learning Center.

Electronic commerce, commonly known as E-commerce, refers to more than just buying and selling products online. It also includes the entire online process of developing, marketing, selling, delivering, servicing and paying for products and services. This includes the placement of media along the various stages of the customer engagement cycle through search engine marketing (SEM), search engine optimization (SEO), banner ads on specific websites, email marketing, mobile device advertising, social media analytics, and Web 2.0 strategies. E-Commerce makes use of innovations in electronic funds transfer, supply chain management, Internet marketing, online transaction processing, electronic data interchange, inventory management systems, and automated data collection systems.

Job opportunities for graduates from this new degree program include Search Engine Optimization Strategist, Social Media or Digital Strategist/Analyst, Blogger, Content Writer, Website Designer, and Web Administrator. These jobs span both the public and private sectors. A minor is not required for this curriculum.

Bachelor of Science in E-Commerce

General: 120 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (1 hour)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

IFSC 1105 First Year Experience for Information Science Majors

University Core (44 hours)

Composition/Communication (9 Hours)
- RHET 1311 Composition I
- RHET 1312 Composition II
- SPCH 1300 Speech Communication

MATH (3 Hours)
- MATH 1302 College Algebra

Fine Arts/Humanities (9 Hours)

Choose two:
- MUHL 2305 Introduction to Music
- ARHA 2305 Introduction to Visual Art
- THEA 2305 Introduction to Theatre and Dance

Choose one:
- ENGL 2337 World Literature
- ENGL 2338 World Literature Themes
- PHIL 2320 Ethics and Society

Science (8 Hours)

Choose 8 hours from the following:
- ANTH 1415 Physical Anthropology
- ASTR 1101 Introduction to Astronomy Laboratory
- ASTR 1303 Introduction to Astronomy
- BIOL 1400 Evolutionary and Environmental Biology
- BIOL 1401 Science of Biology
- CHEM 1409 Chemistry and Society
- ERSC 1102 Physical Geology Laboratory
- ERSC 1302 Physical Geology
- ERSC 1103 Historical Geology Laboratory
- ERSC 1303 Historical Geology

Social Sciences (15 Hours)

Choose one of the following:
- POLS 1310 American National Government
- HIST 2311 U.S. History to 1877
- HIST 2312 U.S. History since 1877

AND

Choose two of the following:
- ANTH 2316 Cultural Anthropology
- CRUJ 2300 Introduction to Criminal Justice
GNST 2300 Introduction to Gender Studies
ECON 2301 Survey of Economics
GEOG 2312 Cultural Geography
ERSC 2300 Science and Technology in Society
MCOM 2330 Mass Media and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introduction to Sociology

AND
HIST 1311 History of Civilization I
and HIST 1312 History of Civilization II

Major (75 hours)

E-Commerce Requirements (27 hours):
CPSC 1370 Computer Literacy
IFAS 2300 Introduction to Information Assurance
ITEC 3610 Introduction to Information Technology and Applications
ITEC 3650 Guided Applications in IT and Industry Processes
IFSC 4350 Electronic Commerce
ITEC 4610 Project Development and Portfolio Defense

E-Commerce Specialization Electives (15 hours)
Choose 5:
IFSC 3300 Internet Applications
IFSC 4360 Social Computing
IFSC 4301 Computer Information, Information, and the Future
RHET 4371 Writing on the Web
RHET 3316 Writing for the Workplace
RHET 3326 Technical Writing
CRJU 3309 Cybercrimes
MCOM 4384 Topics in Mass Communication
MCOM 4385 Advanced Web Design
ARST 2318 Computer Applications in Art
ARST 3340 Introduction to Graphic Design
ARST 3386 Digital Imaging
ARST 4348 Production Design for the Internet
PSYC 3350 Social Psychology
PSYC 3380 Cognitive Psychology
Special Topics
Independent Studies
Internships/Cooperative Education
Other courses with Advisor Permission

Quantitative Reasoning Requirements (9 Hours)
Math 1342 Business Calculus
STAT 2350 Introduction to Statistical Methods
ECON 3355 Quantitative Analysis

Business Requirements (24 hours)
ACCT 2310 Principles of Accounting I
ACCT 2330 Principles of Accounting II
ECON 2322 Principles of Microeconomics
ECON 2323 Principles of Macroeconomics
FINC 3310 Business Finance
MGMT 3305 Management Information Systems
MGMT 3300 Organizational Behavior and Management
MKTG 3350 Principles of Marketing

Minor (none required)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Minor in Information Technology

Thomas Wallace, Program Coordinator, Instructor and Web Designer

Admission Standards and Procedures

UALR’s information technology (IT) minor is intended for students majoring in the arts, humanities, social sciences, sciences, and other programs that do not have an intensive computing component.

These students do not need to have extensive background in computers or technology, but they should demonstrate:

- Problem-solving skills.
- Leadership abilities.
- Oral and written communication skills.
- Interests in information technology.

Visit ualr.edu/informationtechnology for a description of the IT minor or to complete an application. Materials may also be obtained at the Information Science office, EIT Building, Room 533, phone (501) 569-8743. To insure consideration of applications, check with the IT minor office for application deadlines.

Admission Requirements

To apply for this program, students must complete or have completed the following:

- Completion of 30 or more semester hours and a GPA of 2.5 or greater.
- Declaration of a major at UALR.

Curriculum

The IT minor consists of three six-hour courses, ITEC 3610, 3650, and 4610. The courses must be taken in sequence. The grading scale for the courses is A, B, C, D, and F. An I is given for incomplete work in one or more areas as defined in the Undergraduate Catalog with the exception that a grade of I will convert to a grade of F. Any student receiving a grade of F in an ITEC course will be removed from the program.

Courses in Information Technology (ITEC)

ITEC 3610 Introduction to Information Technology and Applications

In the technical component you will learn how to put technology to work to solve problems. File management is the first step. You will learn to apply Excel to real life work situations and to design and present professional PowerPoint presentations which is a must in the 21st century workplace. Web design? You’ll be in the know as you begin web design using Adobe Creative Suite and continue building your skills in the second semester. In the business component of this semester, you will hear about stakeholders in companies, how to read a balance sheet, have a session on global marketing, and listen to guest speakers discuss how they use technology in their businesses. The third component of the semester is soft skills. These will include team building, interpersonal skills, time management and portfolio strategies. Six credit hours.

ITEC 3650 Guided Applications in Information Technology and Industry Processes

Prerequisite: Information Technology 3610. This semester is project oriented. In the technical component you will learn Access for database design. Couple that with Adobe Creative Suite for web design and you’ll be ready to apply what you have learned in a team project for one of our non-profit clients. While you are learning the ropes of working with a client, you’ll also be learning to use project management tools. This skill is becoming a very valuable resume builder. In the business component you’ll learn more about your working style and enjoy more guest speakers. The soft skills section focuses on leading and participating in effective meetings, preparing for job interviews, and working in effective teams. Six credit hours.

ITEC 4610 Project Development and Portfolio Defense

Prerequisite: Information Technology 3650. The three components are intertwined this semester. Under the direction of an IT Minor corporate partner, your team will work on a real life issue. This is accomplished in two phases. The first is Project Planning and Portfolio Development, and includes problem identification, needs assessment, and project planning. The second phase, Project Completion and Portfolio Development, includes design testing, verification, and customer satisfaction. You will leave this semester with a hard copy and an electronic copy of your professional portfolio. Six credit hours.
Courses in Information Science

IFSC 1110 Introduction to Ethics
See PHIL 1110. One hour lecture per week. One credit hour.

IFSC 1202 Introduction to Object-oriented Technology
Prerequisite: Familiarity with using a desktop computer. An introduction to application development using Visual Studio with an emphasis on understanding graphical user interface design and object-oriented technology. Topics covered include programming fundamentals (sequence, decision, and repetition), working with forms and controls, and manipulating user input and elementary database files. This is a laboratory computer-based course with hands-on exercises. Two hours lab per week per credit hour. Two credit hours.

IFSC 1105 First Year Experience for IFSC/CPSC Majors
A survey of the Computer and Information Science majors with coverage of Interpersonal and Team Communication skills, Time Management & Goal Setting, Techniques for Discovering, Organizing & Presenting Information, Self-Initiated Learning, and Overview of Campus-based resources. Activities include service learning projects, field trips, guest speakers, demonstrations, faculty presentations, and social networks. Two hours lab per week. One credit hour.

IFSC 1310 Internet Technologies
Prerequisite: Familiarity with using a desktop computer. This course is an introduction to Internet client-side technologies and standards-based web development. The course will be divided into sections covering the core components of any web site/page. Core components include Structure, Content, Design (presentation), and Behavior. Three lecture hours per week. Three credit hours.

IFSC 2200 Ethics in the Profession
This course is a survey of ethics and its applications to Engineering, Computing, and Information Technology Professions. It has the twin objectives of (i) Studying professional code of ethics and the responsibilities that they place on technology professionals (ii) Investigating the background and implications of ethical concerns in the real-world professional environment. Two hours lecture per week. Two credit hours.

IFSC 2300 Object-oriented Technology
Prerequisites: IFSC 1202 or equivalent or consent of the instructor. Computer programming in Java. Language used to implement applications that employ objects and demonstrate software development by refinement and inheritance. Topics include data types, control structures, repetitive structures; data structures including arrays, lists, queues, stacks, and trees; recursion and File I/O. Two hours lecture and two hours lab per week. Three credit hours.

IFSC 2305 Computer Systems
Prerequisite: IFSC 1202 or equivalent or consent of the instructor. In-depth introduction to the components of a personal computer; topics include number systems, identification and organization of CPU, memory, and peripherals; cache technology; bus technology; upgrading, troubleshooting, and maintaining a personal computer. Incorporates hands-on laboratory experiences. Three hours lecture per week. Three credit hours.

IFSC 2315 Information Systems Software
Prerequisites: IFSC 2300 and 2305. Computer operating system concepts including processor and memory management, multiprocessing and multiprogramming, inter-process communication, scheduling, virtual memory, device management, input/output, secondary storage and file management, and protection. Three hours lecture per week. Three credit hours.

IFSC 2340 Human Computer Interface
Prerequisites: IFSC 1310 and 2300, or consent of instructor. In-depth study of building user interfaces; user requirements, design, aesthetics, and programming. Three hours lecture per week. Three credit hours.

IFSC 3300 Internet Applications
Prerequisite: IFSC 1310 or equivalent, or consent of Instructor. A hands-on course focusing on the technologies and concepts for creating dynamic and interactive web sites with a special emphasis on client-side technologies. Topics will cover techniques such as how to build efficient and dynamic interactive user interfaces, how to interface with data using standardized, portable formats, how to store/validate data and how to make data more accessible to other applications. Three hours lecture. Three credit hours.

IFSC 3315 Applied Networking
Prerequisite: IFSC 2300 or equivalent or consent of instructor. Networking Concepts with emphasis on the Internet. The OSI and Internet layering conventions are studied to cover the operation of an application system with embedded network components. End-to-End protocols, Encryption, and Firewalls are considered as components of a complete system with individual contributions to overall system performance. Lab experiments using current generation networking equipment illustrate the networking concepts. Two hours lecture and two hours lab per week. Three credit hours.

IFSC 3320 Database Concepts
Prerequisites: junior standing or consent of the instructor. Offers an introduction to the fundamentals and use of relational databases and focuses on four major topics: ER-diagram, relational algebra, SQL language and Oracle. Three hours lecture. Three credit hours.

IFSC 3330 Current Trends in Database Technology
Prerequisite: IFSC 3320 or equivalent or consent of the instructor. Current trends in database design and management emphasizing typical applications in business, medicine, and science. Survey of modern database technologies including object-related database technology, query processing and optimization, transaction processing concepts, concurrency control techniques, database security and authorization, data mining, data warehousing, and web search engine technology. Discussion of database management and distributed database management issues. Three hours lecture. Three credit hours.

IFSC 3360 System Analysis and Design
Prerequisite: IFSC 2300 or equivalent or consent of the instructor. Fundamental concepts of object-oriented software analysis and design including requirements specification, analysis, and design of software; issues in software reuse, software packaging, and software management. Three hours lecture per week. Three credit hours.

IFSC 3391 Junior Cooperative Education I
Prerequisites: Junior standing in information science or completion of the Information Technology Minor. This course may be substituted for a major elective with the consent of the chairperson. Work experience to complement and extend the classroom experience through the application of a student’s academic experiences in a professional information technology environment. A minimum of 200 hours of work with the participating employer is required. The exact number of hours per week, activities, and responsibilities are dependent on the nature of the work experience and must be specified in written agreements coordinated with the UALR Office of Cooperative Education. Three credit hours.

IFSC 3392 Junior Cooperative Education II
Prerequisites: Junior standing in information science or completion of the Information Technology Minor. This course is designed as a continuing cooperative learning experience beyond IFSC 3391 and may be substituted for a major elective with the consent of the chairperson. Work experience to complement and extend the classroom experience through the application of a student’s academic experiences in a professional information technology environment. A minimum of 200 hours of work with the participating employer is required. The exact number of hours per week, activities, and responsibilities are dependent on the nature of the work experience and must be specified in written agreements coordinated with the UALR Office of Cooperative Education. Three credit hours.
IFSC 4301 Information, Computing, and the Future
Topics on information and computing and their interactions with society. Emphasizes the history and present status of information and computing technologies and their implications for possible future changes in the profession, the field, and society. Includes discussion of change as a factor in personal career preparation, goals, and activities. Topics may vary based on student interest and current events. Three hours lecture. Three credit hours.

IFSC 4325 Data Mining Concepts and Techniques
Prerequisite: IFSC 3320 or equivalent or consent of the instructor. In-depth, practical coverage of essential data mining topics, including OLAP and data warehousing, data pre-processing, concept description, association rules, classification and prediction, and cluster analysis. Advanced topics include mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields. Three hours lecture. Three credit hours.

IFSC 4330 Database Security
Prerequisite: IFSC 3330 or equivalent or consent of the instructor. Focus on security issues in databases systems and introduction of how current and future commercial systems may be designed to ensure secrecy and confidentiality. Topics include security models, basic security mechanisms and software, statistical database security, intrusion detection, security models for next generation databases, tested techniques and proven strategies for securing an Oracle environment — from the operating system to the database to the network, and how to implement security using Oracle’s built-in tools. Three hours lecture. Three credit hours.

IFSC 4339 Network Security
Prerequisite: IFSC 3315 or CPSC 4384 or SYEN 3332 or MGMT 4310, or consent of instructor. This course provides students with a concise and in-depth overview of security issues in current computer networks. It first gives a brief introduction of cryptographic algorithms and protocols underlying network security applications, including encryption, hash function, public key algorithm, digital signatures, and key exchanges. Then, it focuses on the security issues in current computer networks as well as network security tools and applications. The course will cover network intrusion/detection techniques and systems. Three hours lecture. Three credit hours.

IFSC 4345 Information Visualization
Prerequisites: MATH 1451 and IFSC 2300, or consent of the instructor. The design and presentation of information. Use of graphics, animation, sound, visualization software, and hypermedia in helping users understand information. Methods of presenting complex information to enhance comprehension and analysis. Incorporation of visualization techniques into human-computer interfaces. Three hours lecture. Three credit hours.

IFSC 4350 Electronic Commerce
Prerequisite: IFSC 1310 or equivalent and senior standing or consent of instructor. Seminar style course designed for student to be able to describe and apply different electronic commerce business models. Understand technologies in electronic commerce, including the internet and WWW, security systems, electronic payment systems, and intelligent agents. Three hours lecture. Three credit hours.

IFSC 4360 Social Computing
Prerequisite: IFSC 1310 and IFSC 2300, or equivalent, or consent of Instructor. A hands-on course focusing on concepts of the social and information networks, Web as graph, models (such as Power law distribution, scale-free models, preferential attachment models, etc.) that simulate behavioral characteristics of these graphs, basic graph theoretical concepts, characteristics of social media and Web 2.0 or the Social Web (such as blogs, microblogging, social friendship networks, social bookmarking, social news, social media sharing, wikis, etc.), understanding and developing API and mashups, issues and challenges in data crawling and web analytics, network data visualization, exposure to information extraction and retrieval concepts aiming at the highly dynamic and noisy nature of social media, harnessing the collective and web intelligence, and basic concepts of cloud computing. Three lecture hours. Three credit hours.

IFSC 4376 Applied Cryptography
See CPSC 4376 Applied Cryptography Three credit hours.

IFSC 4391 Senior Cooperative Education I
Prerequisites: Senior standing in information science and consent of chairperson if substituted for a major elective. Work experience to complement and extend the classroom experience through the application of a student's academic experiences in information science in a professional information technology environment. A minimum of 200 hours of work with the participating employer is required. The exact number of hours per week, activities, and responsibilities are dependent on the nature of the work experience and must be specified in written agreements coordinated with the UALR Office of Cooperative Education. Three credit hours.

IFSC 4392 Senior Cooperative Education II
Prerequisites: Senior standing in information science and consent of chairperson if substituted for a major elective. This course is designed as a continuing cooperative learning experience beyond IFSC 4391. Work experience to complement and extend the classroom experience through the application of a student’s academic experiences in information science in a professional information technology environment. A minimum of 200 hours of work with the participating employer is required. The exact number of hours per week, activities, and responsibilities are dependent on the nature of the work experience and must be specified in written agreements coordinated with the UALR Office of Cooperative Education. Three credit hours.

IFSC 4395, 4695 Internship
Prerequisite: junior or senior standing in information science and consent of the chairperson if substituted for a major elective. Professional experience related to the student’s major emphasis under supervision of an advisor. A minimum of four hours work on site per week for each credit hour. Advisor files a grade contract with the chairperson. Three or six credit hours.

IFSC 4396 Capstone Project I
Prerequisite: IFSC 3330 and 3360. Capstone course in which student teams do an analysis of a live information system, document and present their conclusions. Projects are chosen at the end of IFSC 3330. Teams coordinate their efforts on a sponsor’s site and make regular report to the instructor. Classroom meetings are held as necessary to conduct orientations and hear presentations. Three credit hours.

IFSC 4398 Capstone Project II
Prerequisite: IFSC 4396. Continued capstone course in which student teams pursue the design and implementation of system improvements identified in IFSC 4396. Deliverables and schedule are determined by the instructor. Classroom meetings are held as necessary to conduct orientations and hear presentations. Three credit hours.

IFSC 4100, 4200, 4300, 4400, 4500, 4600 Independent Study
Prerequisite: consent of chairperson. Individual research by the advanced student. Topics determined on the basis of faculty interest and availability. Two to four hours per week per credit hour. The exact time and nature of the experience depends on the subject matter and is agreed upon at the beginning of the term by the student and the instructor. Agreement must be in writing and filed with the chairperson. May be repeated. Maximum of six credit hours can be applied toward IFSC major requirements. One, two, three, four, five, or six credit hours.

IFSC 4199, 4299, 4399, 4499 Special Topics
Prerequisite: junior standing or consent of instructor. Advanced, specialized topics of current interest in information science. May be repeated up to a maximum of 12 credit hours counting toward the major. One, two, three, or four hours lecture or equivalent per week. Dual-listed in the UALR Graduate Catalog as IFSC 5199, 5299, 5399, 5499. One, two, three, or four credit hours.
Engineering challenges of the 21st century are rarely solved by focusing on only one engineering discipline. Complex engineering “systems” manage the world’s technical and mechanical infrastructure, and the understanding of the interrelationships between the components of those systems is at the heart of UALR’s systems engineering program.

Our forward-looking program equips students to understand the integration of diverse components needed to create complex systems. Graduates develop a strong core understanding of the concepts of systems engineering—including systems design, systems analysis and teamwork—while specializing in one of four specific disciplines: mechanical engineering, electrical engineering, telecommunications engineering or computer engineering.

General Information

Beyond their understanding of integrated systems engineering solutions, graduates of UALR’s program have all the specialized expertise required to succeed and be professionally licensed in their area of specialization.

In the four areas of specialization encompassed in our Systems Engineering program:

1. The mechanical option provides students with skills in design and analysis involving statics and dynamics of mechanical systems, engineering materials, and fluid and thermal systems.
2. The electrical option teaches the design and analysis of various electrical systems including complex networks, digital and analog circuits, and control and power systems.
3. The telecommunications option builds an understanding of cellular and wireless communications, including third-generation wireless technologies and networking protocols, voice over IP, and the emerging mobile multimedia internet.
4. The computer option focuses on the integration of hardware, software, and operating systems with the goal of analyzing and optimizing computer systems, including networked systems, automated robotic systems, and integrated manufacturing systems.

The systems engineering curriculum includes six credit hours of electives to provide flexibility to target a specific career area or acquire broad background in related disciplines. This feature allows a systems engineering graduate tremendous latitude in career choices.

Admission Requirements

Students must be eligible to enroll in MATH 1451 Calculus I and RHET 1312 Composition II to be admitted into the Systems Engineering program. Students who wish to major in Systems Engineering but need to take MATH 1302 College Algebra and/or MATH 1303 Trigonometry may be provisionally admitted into the major once they have enrolled in these courses. However, they may require more time to complete the program.

Major in Systems Engineering

The Systems Engineering program is designed to provide a broad-based education in the design and analysis of complex systems, offering four options for specialization: computer, telecommunications, mechanical, and electrical. Students may choose one or more minors, but a minor is not a degree requirement.

<table>
<thead>
<tr>
<th>Systems Engineering</th>
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<tbody>
<tr>
<td>Systems Engineering Capstone Courses (6 credit hours)</td>
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<tr>
<td>Computer (35 credit hours)</td>
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<tr>
<td>Systems Engineering Foundation Courses (23 credit hours)</td>
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<tr>
<td>Systems Analysis, Design, Teamwork, Execution, and Engineering Solutions</td>
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</tbody>
</table>
Bachelor of Science in Systems Engineering Computer Systems Option

General: 128 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-2 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of college credit. (See page 19 for details)
SYEN 1210 Introduction to Systems Engineering

Core (35 hours)

English/Communication Requirement (6 hours)
RHET 1311 Composition I
RHET 1312 Composition II

Math (3 hours)
MATH 3322 Differential Equations

Science (8 hours)
CHEM 1406 Engineering Chemistry
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Lab

U.S. History and Government Requirement (3 hours)
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government

Fine Arts/Humanities/Social Sciences (11 hours)
IFSC 2200 Ethics in the Profession
and SYEN 3301 Engineering Economy
and RHET 3326 Technical Writing
or RHET 3316 Writing for the Workplace

And choose one:
ANTH 2316 Cultural Anthropology
ARHA 2305 Introduction to Visual Art
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
GEOG 2312 Cultural Geography
GNST 2301 Introduction to Gender Studies
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
MCOM 2330 Mass Media and Society
Muhl 2305 Introduction to Music
PHIL 2320 Ethics and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
REL 2305 World Religions
SOCI 2300 Introductory to Sociology
SPCH 1300 Speech Communications
THEA 2305 Introduction to Theater and Dance
Any CHIN, FREN, GERM, INTR, or SPAN course

Additional Math and Science - in place of Fine Arts/Humanities/Social Sciences (4 hours)
PHYS 2322 Physics for Scientists and Engineers II
PHYS 2122 Physics for Scientists and Engineers II Lab

Second Language Proficiency (none required)

Major (91 hours)

Addition Mathematics Courses for Major (18 hours)
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III
MATH 2350 Introduction to Mathematical Proofs
MATH 3312 Linear Algebra

Systems Engineering Foundation Courses (29 hours)
SYEN 1302 C/C++ Programming for Engineers and Scientists
SYEN 2110 Computational Engineering Laboratory
SYEN 2315 Circuits and Systems
SYEN 2115 Circuits and Systems Laboratory
SYEN 3312 Optimization Methods in Systems Engineering
SYEN 3314 Probability Theory and Random Variables
SYEN 3316 Discrete Event Systems Modeling and Simulation
SYEN 3318 Decision and Risk Analysis
SYEN 3320 Systems Engineering and Design Analysis
SYEN 4385 Systems Engineering Capstone Design I
SYEN 4386 Systems Engineering Capstone Design II

Computer Option (35 hours)
SYEN 1301 Introduction to Computing Systems
or SYEN 1304 Introduction to Electrical Systems
SYEN 2370 Engineering Statics
or SYEN 3310 Dynamic Systems Modeling and Simulation
SYEN 3330 Digital Systems
SYEN 3130 Digital Systems Laboratory
SYEN 3332 Communication Network
SYEN 3334 Advanced Microprocessor Systems
SYEN 3134 Advanced Microprocessor Systems Laboratory
SYEN 3336 Computer Architecture
SYEN 3362 Algorithm Design
SYEN 4331 Advanced Computer Architecture
SYEN 4332 Applied Operation Systems
SYEN 4334 Software System Engineering
SYEN 4366 Advanced Digital Systems

Management Requirement (3 hours)
MGMT 3300 Organizational Behavior and Management
or MGMT 3362 Small Business Management
or MGMT 4361 Entrepreneurship

Major Electives (6-8 hours)
Students may choose six hours of upper level courses from SYEN, ECET, ETME, CVCE, ARCE, IFSC and CPSC with the consent of an advisor. Additional 2 hours major elective required for transfer students exempted from 2 hour FYC requirement.

Minor (None required)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Systems Engineering Electrical Systems Option

General: 128 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-2 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)
SYEN 1210 Introduction to Systems Engineering

Core (35 hours)

English/Communication Requirement (6 hours)
RHET 1311 Composition I
RHET 1312 Composition II

Math (3 hours)
MATH 3322 Differential Equations

Science (8 hours)
CHEM 1406 Engineering Chemistry
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Lab

U.S. History and Government Requirement (3 hours)
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government

Fine Arts/Humanities/Social Sciences (11 hours)
IFSC 2200 Ethics in the Profession
and SYEN 3301 Engineering Economy
and RHET 3326 Technical Writing
or RHET 3316 Writing for the Workplace

And choose one:
ANTH 2316 Cultural Anthropology
ARHA 2305 Introduction to Visual Art
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
GEOG 2312 Cultural Geography
GNST 2301 Introduction to Gender Studies
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
MCOM 2330 Mass Media and Society
Muhl 2305 Introduction to Music
PHIL 2320 Ethics and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
REL 2305 World Religions
SOCI 2300 Introductory to Sociology
SPCH 1300 Speech Communications
THEA 2305 Introduction to Theater and Dance
Any CHIN, FREN, GERM, INTR, or SPAN course

Additional Math and Science - in place of Fine Arts/Humanities/Social Sciences (4 hours)
PHYS 2322 Physics for Scientists and Engineers II
PHYS 2122 Physics for Scientists and Engineers II Lab

Second Language Proficiency (none required)
Science (8 hours)
CHEM 1406 Engineering Chemistry
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Lab

U.S. History and Government Requirement (3 hours)
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government

Fine Arts/Humanities/Social Sciences (11 hours)
IFSC 2200 Ethics in the Profession
and SYEN 3301 Engineering Economy
and RHET 3326 Technical Writing
or RHET 3316 Writing for the Workplace

And choose one:
ANTH 2316 Cultural Anthropology
ARHA 2305 Introduction to Visual Art
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
GEOG 2312 Cultural Geography
GNST 2300 Introduction to Gender Studies
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
MCOM 2330 Mass Media and Society
MUHL 2305 Introduction to Music
PHIL 2320 Ethics and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introductory to Sociology
THEA 2305 Introduction to Theater and Dance
Any CHIN, FREN, GERM, INTR, or SPAN course

Additional Math and Science - in place of Fine Arts/Humanities/Social Sciences (4 hours)
PHYS 2322 Physics for Scientists and Engineers II
PHYS 2122 Physics for Scientists and Engineers II Lab

Second Language Proficiency (none required)

Major (91 hours)

Additional Mathematics Courses for Major (18 hours)
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III
MATH 2350 Introduction to Mathematical Proofs
MATH 3312 Linear Algebra

Systems Engineering Foundation Courses (29 hours)
SYEN 1302 C/C++ Programming for Engineers and Scientists
SYEN 2110 Computational Engineering Laboratory
SYEN 2315 Circuits and Systems
SYEN 2115 Circuits and Systems Laboratory
SYEN 3312 Optimization Methods in Systems Engineering
SYEN 3314 Probability Theory and Random Variables
SYEN 3316 Discrete Event Systems Modeling and Simulation
SYEN 3318 Decision and Risk Analysis
SYEN 3320 Systems Engineering and Design Analysis
SYEN 4385 Systems Engineering Capstone Design I
SYEN 4386 Systems Engineering Capstone Design II

Electrical Option (35 hours)
SYEN 1304 Introduction to Electrical Systems
or SYEN 1301 Introduction to Computing Systems
SYEN 3310 Dynamic Systems Modeling and Simulation
SYEN 3330 Digital Systems
SYEN 3130 Digital Systems Laboratory
SYEN 3334 Advanced Microprocessor Systems
SYEN 3134 Advanced Microprocessor Systems Laboratory
SYEN 3350 Signals and Systems
SYEN 3150 Signals and Systems Laboratory
SYEN 3351 Network Analysis
SYEN 3352 Analog and Digital Electronics
SYEN 3152 Analog and Digital Electronics Laboratory
SYEN 3356 Electromagnetic Fields and Waves
SYEN 3358 Fundamentals of Power Systems
SYEN 3158 Fundamentals of Power Systems Laboratory
SYEN 3364 Introduction to Control Systems Engineering

Management Requirement (3 hours)
MGMT 3300 Organizational Behavior and Management
or MGMT 3362 Small Business Management
or MGMT 4361 Entrepreneurship

Major Electives (6-8 hours)
Students may choose six hours of upper level courses from SYEN, ECET, ETME, CVCE, ARCE, IFSC and CPSC with the consent of an advisor. Additional 2 hours major elective required for transfer students exempted from 2 hour FYC requirement.

Minor (None required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Systems Engineering Mechanical Systems Option

General: 128 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-2 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)
SYEN 1210 Introduction to Systems Engineering

Core (35 hours)

English/Communication Requirement (6 hours)
RHET 1311 Composition I
RHET 1312 Composition II

Math (3 hours)
MATH 3322 Differential Equations

Science (8 hours)
CHEM 1406 Engineering Chemistry
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Lab

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and SYEN 3301 Engineering Economy
and RHET 3326 Technical Writing
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ARHA 2305 Introduction to Visual Art
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
GEOG 2312 Cultural Geography
GNST 2300 Introduction to Gender Studies
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
MCOM 2330 Mass Media and Society
MUHL 2305 Introduction to Music
PHIL 2320 Ethics and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introductory to Sociology
SPCH 1300 Speech Communications
THEA 2305 Introduction to Theater and Dance
Any CHIN, FREN, GERM, INTR, or SPAN course

Additional Math and Science - in place of Fine Arts/Humanities/Social Sciences (4 hours)
PHYS 2322 Physics for Scientists and Engineers II
PHYS 2122 Physics for Scientists and Engineers II Lab

Second Language Proficiency (none required)

Major (91 hours)
Additional Mathematics Courses for Major (18 hours)
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III
MATH 2350 Introduction to Mathematical Proofs
MATH 3312 Linear Algebra

Systems Engineering Foundation Courses (29 hours)
SYEN 1302 C/C++ Programming for Engineers and Scientists
SYEN 2110 Computational Engineering Laboratory
SYEN 2315 Circuits and Systems
SYEN 2115 Circuits and Systems Laboratory
SYEN 3312 Optimization Methods in Systems Engineering
SYEN 3314 Probability Theory and Random Variables
SYEN 3316 Discrete Event Systems Modeling and Simulation
SYEN 3318 Decision and Risk Analysis
SYEN 3320 Systems Engineering and Design Analysis
SYEN 4385 Systems Engineering Capstone Design I
SYEN 4386 Systems Engineering Capstone Design II

Mechanical Option (35 hours)
SYEN 1207 Introduction to Mechanical Systems
SYEN 2117 Manufacturing Processes Laboratory
ETME 2333 Advanced Computer-Aided Design
SYEN 2370 Engineering Statics
SYEN 3371 Engineering Dynamics
SYEN 3372 Engineering Materials
SYEN 3378 Engineering Thermodynamics
SYEN 4374 Fluid Mechanics
SYEN 4174 Fluid Mechanics Laboratory
SYEN 4376 Mechanics of Materials
SYEN 4176 Mechanics of Materials Laboratory
SYEN 4379 Heat Transfer
SYEN 4383 Finite Element Analysis
ETME 4317 Machine Design

Management Requirement (3 hours)
MGMT 3300 Organizational Behavior and Management
or MGMT 3362 Small Business Management
or MGMT 4361 Entrepreneurship

Major Electives (6-8 hours)
Students may choose six hours of upper level courses from SYEN, ECET, ETME, CVCE, ARCE, IFSC and CPSC with the consent of an advisor. Additional 2 hours major elective required for transfer students exempted from 2 hour FYC requirement.

Minor (None required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Systems Engineering Telecommunications Systems Option

General: 128 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-2 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 19 for details)
SYEN 1210 Introduction to Systems Engineering

Core (35 hours)

English/Communication Requirement (6 hours)
RHET 1311 Composition I
RHET 1312 Composition II

Math (3 hours)
MATH 3322 Differential Equations

Science (8 hours)
CHEM 1406 Engineering Chemistry
PHYS 2321 Physics for Scientists and Engineers I
PHYS 2121 Physics for Scientists and Engineers I Lab

U.S. History and Government Requirement (3 hours)
HIST 2311 U.S. History to 1877
or HIST 2312 U.S. History since 1877
or POLS 1310 American National Government

Fine Arts/Humanities/Social Sciences (11 hours)
IFSC 2200 Ethics in the Profession
and SYEN 3301 Engineering Economy
and RHET 3326 Technical Writing
or RHET 3316 Writing for the Workplace
And choose one:
ANTH 2316 Cultural Anthropology
ARHA 2305 Introduction to Visual Art
CRJU 2300 Introduction to Criminal Justice
ECON 2301 Survey of Economics
ENGL 2337 World Literature
ENGL 2338 World Literature Themes
GEOG 2312 Cultural Geography
GNST 2300 Introduction to Gender Studies
HIST 1311 History of Civilization I
HIST 1312 History of Civilization II
MCOM 2330 Mass Media and Society
MUHL 2305 Introduction to Music
PHIL 2320 Ethics and Society
POLS 2301 Introduction to Political Science
PSYC 2300 Psychology and the Human Experience
RELS 2305 World Religions
SOCI 2300 Introductory to Sociology
SPCH 1300 Speech Communications
THEA 2305 Introduction to Theater and Dance
Any CHIN, FREN, GER, INTR, or SPAN course
Additional Math and Science - in place of Fine Arts/Humanities/ Social Sciences (4 hours)
PHYS 2322 Physics for Scientists and Engineers II
PHYS 2322 Physics for Scientists and Engineers II Lab

Second Language Proficiency (none required)

**Major (91 hours)**

**Additional Mathematics Courses for Major (18 hours)**
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III
MATH 2350 Introduction to Mathematical Proofs
MATH 3312 Linear Algebra

**Systems Engineering Foundation Courses (29 hours)**
SYEN 1301 Introduction to System Engineering
SYEN 2307 Engineering Statics
SYEN 2310 Introduction to Digital Systems
SYEN 2311 Introduction to Electrical Engineering
SYEN 2315 Circuits and Systems
SYEN 2315 Circuits and Systems Laboratory
SYEN 3312 Optimization Methods in Systems Engineering
SYEN 3314 Probability Theory and Random Variables
SYEN 3316 Discrete Event Systems Modeling and Simulation
SYEN 3318 Decision and Risk Analysis
SYEN 3320 Systems Engineering and Design Analysis
SYEN 4385 Systems Engineering Capstone Design I
SYEN 4386 Systems Engineering Capstone Design II

**Telecommunications Option (35 hours)**
SYEN 1303 Introduction to Telecommunication Systems
SYEN 2370 Engineering Statics or SYEN 3310 Dynamic Systems Modeling and Simulation
SYEN 3332 Communication Network
SYEN 3350 Signals and Systems
SYEN 3350 Signals and Systems Laboratory
SYEN 3354 Digital and Analog Communications Systems Laboratory
SYEN 3354 Digital and Analog Communications Systems Laboratory
SYEN 3356 Electromagnetic Fields and Waves
SYEN 4358 Cellular and Wireless Communications
SYEN 4355 Mobile Multimedia Internet
SYEN 4336 Advances in Communication Networks
SYEN 4350 Digital Signal Processing
SYEN 4356 Radio Frequency Techniques and Systems Management Requirement (3 hours)
MGMT 3300 Organizational Behavior and Management
or MGMT 3362 Small Business Management or MGMT 4361 Entrepreneurship

**Major Electives (6-8 hours)**
Students may choose six hours of upper level courses from SYEN, ECET, ETME, CVCE, ARCE, IFSC and CPSC with the consent of an advisor. Additional 2 hours major elective required for transfer students exempted from 2 hour FYC requirement.

**Minor (None required)**

**Unrestricted General Electives**
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

**Fundamentals of Engineering Examination**
The department strongly recommends that students specializing in mechanical and electrical options take the Fundamentals of Engineering Examination in their senior year. The following set of courses represents the recommended set of preparatory courses for the Fundamentals of Engineering Exam:
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III
MATH 3312 Linear Algebra
MATH 3322 Introduction to Differential Equations
CHEM 1402 General Chemistry I or CHEM 1406 General Chemistry for Engineers
IFSC 2200 Ethics in the Profession
SYEN 3301 Engineering Economy
SYEN 1301 Introduction to Computer Systems
SYEN 1302 C/C++ Programming for Engineers and Scientists
SYEN 1207 Introduction to Mechanical Engineering
SYEN 2315 Circuits and Systems
SYEN 2115 Circuits and Systems Laboratory
SYEN 3301 Engineering Economy
SYEN 3314 Probability Theory and Random Variables
SYEN 3370 Engineering Dynamics 1
SYEN 3371 Engineering Dynamics 1
SYEN 3372 Engineering Materials 1
SYEN 3378 Engineering Thermodynamics 1
SYEN 4374 Fluid Mechanics 1
SYEN 4376 Mechanics of Materials 1
Note 1: Required for Mechanical option

**Courses in Systems Engineering**
**SYEN 1207 Introduction to Mechanical Engineering**
Prerequisite: none. The mechanical engineering profession; problem solving skills; machine components and tools; forces in structures and fluids; materials and stresses; thermal and energy systems; motion of machinery; mechanical design. Required for SYEN students in the mechanical option, but open to all students on a space available basis. Two hours lecture. Two credit hours.

**SYEN 1210 Introduction to Systems Engineering**
Prerequisite: MATH 1302 or 1315, or consent of instructor. Introduction to engineering as a profession, engineering problem solving, engineering design process, engineering ethics, engineering communication, history of engineering developments, and case studies involving leading inventions in the engineering field from a variety of disciplines. Students work in teams to build small engineering projects. Course includes industry visits and talks by industry specialists. One hour lecture. Two hours lab. Two credit hours.

**SYEN 1301 Introduction to Computer Systems**
Prerequisite: consent of instructor. Introduction to the fundamental hardware and software underpinning of computing systems, MOS transistors, logic gates, latches, logic structure, memory, von Neumann model of execution, organization and architecture of a simple computer; machine, assembly, and high-level language programming. Required for systems engineering students in the computer systems option, but open to all students on a space available basis. Four hours lab. Two hours lecture, two hours lab. Three credit hours.
SYEN 3130 Digital and Analog and Electronics Laboratory
Prerequisite or corequisite: SYEN 3350. Laboratory course to accompany SYEN 3350 Signals and Systems. Two hours lab. One credit hour.

SYEN 3152 Digital and Analog and Electronics Laboratory
Prerequisite or corequisite: SYEN 3352. Laboratory course to accompany SYEN 3352 Analog and Digital Electronics. Two hours lab. One credit hour.

SYEN 3154 Digital and Analog Communications Laboratory
Prerequisite or corequisite: SYEN 3354. Weekly laboratory experiments to accompany Communication Systems I. Two hours lab. One credit hour.

SYEN 3158 Power Systems Laboratory
Prerequisites: SYEN 2315 and 2115. This lab is designed to accompany SYEN 3358. The lab includes the tests of transformers, DC and AC motors, and power electronic systems. Two hours lecture. One credit hour.

SYEN 3301 Engineering Economy
Prerequisite: MATH 1311, 1342 or 1451, or consent of instructor. Introduction to engineering economic decisions for evaluating the worth of products, services, projects and systems; time value of money, economic equivalence concepts, comparison of investment alternatives, evaluating economic life and replacement analysis, inflation, depreciation and impact of taxes on engineering decisions and economic risk analysis. Three hours lecture. Three credit hours. Cross listed as CNMG 3302.

SYEN 3310 Dynamic Systems Modeling and Simulation
Prerequisites: MATH 3312 and 3322. Introduction to mathematical modeling of dynamic systems, continuous and discrete system models, system response in time and frequency domains, transfer functions, stability characterization, state-space formulation of modeling problems, fitting models to data, examples from sciences and engineering. Three hours lecture. Three credit hours.
SYEN 3312 Optimization Methods in Systems Engineering
Prerequisites: MATH 2453 and 3312, SYEN 2110. Mathematical foundations, optimality criteria for unconstrained and constrained problems, one-dimensional search methods, gradient and Newtonian methods, linear programming, non-linear programming, discrete optimization, advanced techniques. Three hours lecture. Three credit hours.

SYEN 3314 Probability Theory and Random Variables
Prerequisite or concurrent: MATH 2453. Sample space and events, axioms of probability, conditional probability, independence, Bayes’ rule, discrete and continuous random variables and probability distributions, joint probability distributions, random sampling, limit theorems, confidence intervals, hypothesis testing, introduction to random processes. Three hours lecture. Three credit hours.

SYEN 3316 Discrete Event Systems Modeling and Simulation
Prerequisites: SYEN 3314. The theory and practice of discrete-event simulation modeling and analysis, discrete-event dynamic systems (DEDS), simulation logic and data structures, random number generation, computational issues, experiment design, output analysis, model verification and validation, and modern simulation languages including animation. Three hours lecture. Three credit hours.

SYEN 3318 Decision and Risk Analysis
Prerequisite: SYEN 3312 and 3314. A study in analytic techniques for rational decision-making. Address uncertainty, conflicting objectives, and risk attitudes. Modeling uncertainty; rational decision-making principles; representing decision problems with value trees, decision trees, and influence diagrams; solving value hierarchies, decision trees and influence diagrams; defining and calculating the value of information; incorporating risk attitudes into the analysis; and conducting sensitivity analyses. Three hours lecture. Three credit hours.

SYEN 3320 Systems Engineering Design and Analysis
Prerequisite: SYEN 3312. An integrated introduction to systems design, analysis, and management. The steps of the systems engineering life-cycle process, including identification of system requirements, system concept, engineering design, system testing and integration, and system operation and support. Presentation of basic systems analysis tools, including decision-making, economic evaluation, modeling and simulation, and statistical process control. Elements of systems engineering program management and evaluation. Three hours lecture. Three credit hours.

SYEN 3330 Digital Systems
Prerequisites: SYEN 1302 and 2315. An introduction to digital system design necessary to do modern digital design. Exposure to a balanced treatment of logic design, digital system design, and computer system design basics. New paradigms that cover classical topics and integrate modern technology into the discussion for a real-world viewpoint of modern computer systems. Three hours lecture. Three credit hours.

SYEN 3332 Communication Networks

SYEN 3334 Advanced Microprocessor Systems
Prerequisite: SYEN 3330. The 80×86 Intel series of microprocessors (from the 8086 to the Pentium members of the series). Principles of microprocessor system design. Architecture of microprocessors, memory interfacing, assembly language programming, I/O programming, I/O peripheral devices, I/O interface design, and data communications. Three hours lecture. Three credit hours.

SYEN 3336 Computer Architecture
Prerequisites: SYEN 3330, or consent of the instructor. The evolution of computers, design methodology, processor basics, data path and control design, memory organization, and system organization. Three hours lecture. Three credit hours.

SYEN 3350 Signals and Systems
Prerequisites: MATH 3322 and corequisites MATH 2453. Linear system theory, convolution, sampling theorem, Fourier series representation, Laplace transform, Fourier transform, digital filtering. Three hours lecture. Three credit hours.

SYEN 3351 Network Analysis
Prerequisites: SYEN 2315 and 2115. Basic circuit laws; circuit analysis methods; capacitive and inductive transients and equivalent circuits; initial, final, and first-order circuits; Laplace transforms; circuit analysis with Laplace transforms; transfer functions; sinusoidal steady-state analysis; frequency response analysis and Bode plots; waveform analysis; Fourier analysis. Three hours lecture. Three credit hours.

SYEN 3352 Analog and Digital Electronics
Prerequisites: SYEN 2315 and 2115. Electronic systems; measurement sensors and actuators; amplification; feedback; semiconductor electronics; digital electronics; field effect transistors; bipolar junction transistors; analog signal processing; digital systems; sequential logic; digital devices; microcomputers; data acquisition and conversion; system design. Three hours lecture. Three credit hours.

SYEN 3354 Digital and Analog Communication
Prerequisites: SYEN 3350, corequisite 3314. Introduction to communication systems; signals and spectra; signal transmission over communication channels; filtering; linear and exponential CW modulation, sampling, pulse modulation, random signals, noise in communication systems. Three hours lecture. Three credit hours.

SYEN 3355 Electromagnetic Fields and Waves
Prerequisites: SYEN 2315 and MATH 2453. Vector algebra and vector calculus; electrostatics, magnetostatics, Maxwell's equations for time-varying fields, plane-wave propagation; transmission lines; wave reflection and transmission; radiation and antennas. Three hours lecture. Three credit hours.

SYEN 3358 Fundamentals of Power Systems
Prerequisite: SYEN 2315. Electrical machines: generators, motors, and transformers; electrical and electronic drives: motor control and power electronics; electric utility power systems: generation, transmission, distribution, and utilization of electricity. Three hours lecture. Three credit hours.

SYEN 3362 Algorithm Design
Prerequisite: SYEN 1302. Design, analysis, and implementation of algorithms important to computer systems and telecommunication systems; algorithmic design patterns and frameworks; data structures; combinatorial algorithms; graph algorithms; geometric algorithms; numerical algorithms; and internet algorithms, including text processing, cryptography, and network algorithms. Three hours lecture. Three credit hours.

SYEN 3364 Introduction to Control Systems Engineering
Prerequisite: MATH 3322. Introduction to feedback digital control systems, PID control, continuous modeling of physical systems, application of integral transforms to control system design and analysis, transfer functions, block diagrams, control system characteristics, stability analysis, performance criteria, frequency response methods. Three hours lecture. Three credit hours.
SYEN 3370 Statics and Dynamics
Prerequisite: PHYS 2321 or consent of instructor. Prerequisite concurrent: MATH 2453 or consent of instructor. Statics of particles, equivalent systems of forces, equilibrium of rigid bodies, centroids and centers of gravity, analysis of structures, friction, moments of inertia, kinematics and kinetics of particles, introduction to kinematics and kinetics of rigid bodies, forces and accelerations. Three hours lecture. Three credit hours. Cross listed as CNMG 3370.

SYEN 3371 Engineering Dynamics
Prerequisite: SYEN 2370 or consent of instructor. Kinematics and kinetics of particles, systems of particles, and rigid bodies; energy and momentum methods; mechanical vibrations and resonance; introduction to structural dynamics due to time-varying loads, such as wind and seismic loading. Three hours lecture. Three credit hours.

SYEN 3372 Engineering Materials
Prerequisites: CHEM 1402 and MATH 1451. Atomic structure and bonding, crystal structures, crystal geometry, solidification, crystalline imperfections, and diffusion in solids, mechanical properties of metals, polymeric materials, phase diagrams, engineering alloys, ceramics, composite materials, corrosion, electrical properties of materials, optical properties and superconductive materials, magnetic materials. Cross-listed with CNMG 3372. Three hours lecture. Three credit hours.

SYEN 3378 Engineering Thermodynamics
Prerequisites: CHEM 1402, PHYS 2321, and MATH 1452, or consent of instructor. Properties of pure substances, thermodynamic processes, heat and work, the first law of thermodynamics, closed systems, enthalpy, open systems, the second law of thermodynamics, entropy, exergy, and an introduction to power and refrigeration cycles. Three hours lecture. Three credit hours. Cross listed as CNMG 3378.

SYEN 3379 Elements of Mechanical Design
Prerequisites: SYEN 2233 and CNMG 3376 or equivalent with a grade of C or better. Introduction to the design, integration, and best practices for using mechanical elements such as springs, gears, cams and mechanisms, clutches and brakes, and bearings. Methods of joining such as fasteners, welds, press and shrink fits, and shaft coupling will be covered. Performance and failure analysis for components and machines will be covered. Solid modeling of machine assemblies for documentation and basic analysis will be emphasized. A semester-long design project in which a mechanical system is designed, fabricated, and characterized will serve as the practical application of these concepts. Two hours lecture, four hours lab. Three credit hours.

SYEN 3391 Cooperative Education in Systems Engineering I
Prerequisites: declaration of systems engineering major, completion of at least 60 hours total credit hours with an overall GPA of 2.5 or higher, completion of 20 or more credit hours of systems engineering courses with a GPA of 2.5 or higher, and permission of the systems engineering cooperative education faculty coordinator. This course is for qualified students who would like to combine classroom study with at least 200 hours of engineering-related paid employment. The course is a partnership between the student, the employer, the systems engineering faculty, and the UALR Office of Cooperative Education. An individualized Cooperative Education Learning Agreement will specify the detailed work assignment, including employer, supervisor, job title, work schedule, and rate of pay, as well as the academic requirements, including learning objectives, learning activities, documentation of learning, learning assessments, and grading policy. This course will be allowed to satisfy up to six hours of program electives. Three credit hours.

SYEN 4100, 4200, 4300, 4400, 4500 Independent Study
Prerequisite: Senior standing. Individual investigation by an upper level student. Topics determined in consultation with supervising faculty. For each credit hour, the student is expected to work two to four hours per week as determined by the instructor. Agreement must be in writing and filed with the department chairperson. A maximum of six credit hours can be applied toward the SYEN major requirement. One to five credit hours.

SYEN 4174 Fluid Mechanics Laboratory
Prerequisite or corequisite: SYEN 4374. Analysis of experimental data, basic electrical measurements and sensing devices, pressure measurement, flow measurement, temperature measurement, data acquisition and processing, report writing and presentation, design of experiments. Cross-listed with CNMG 4174. Two hours lab. One credit hour.

SYEN 4176 Mechanics of Materials Laboratory
Prerequisite or corequisite: SYEN 4376. Analysis of experimental data, basic electrical measurements and sensing devices, force measurement, torque measurement, strain measurement, motion measurement, vibration measurement, data acquisition and processing, report writing and presentation, design of experiments. Two hours lab. One credit hour. Cross listed as CNMG 4176.

SYEN 4182 MEMS and Microsystems Laboratory
Prerequisites: SYEN 4376 and 4176 or consent of instructor. This laboratory course is an introduction to the principles of microfabrication for microelectronic devices, sensors, and micromechanical structures, MEMS, and Microsystems with applications in engineering. Course comprised of laboratory work and accompanying lectures that cover silicon oxidation, photolithography, thin film deposition, etching, electrochemical deposition (plating) and packaging. Some selected topics in yield and reliability, as well as process simulation may be covered. Dual-listed in the UALR Graduate Catalog as SYEN 5182. Two hours lab. One credit hour.

SYEN 4282 MEMS and Microsystems
Prerequisite: SYEN 3372 or equivalent with a grade of C or higher. Corequisite SYEN 4182. In this introductory MEMS class, we cover the fundamental basis of Micromechanical devices technology. Microelectromechanical devices (MEMS), such as actuators, pressure sensors, and opto-mechanical assemblies, require knowledge of a broad range of disciplines, from microfabrication and mechanics to chemistry and solid state device physics. Dual-listed in the UALR Graduate Catalog as SYEN 5282. Two hours lecture. Two credit hours.

SYEN 4314 Queuing Theory and Systems
Prerequisite: SYEN 3314 or equivalent. Theoretical foundations, models and techniques or queuing theory. Topics include classic models of queues including simple and advanced Markovian queuing models, and models with general arrival and service patterns. Applications of queuing theory and queuing systems design considerations. Dual-listed in the UALR Graduate Catalog as SYEN 5314. Three hours lecture. Three credit hours.

SYEN 4320 Linear State-Space Control Systems
Prerequisites: SYEN 3364 or consent of instructor. Introduction to modern control systems, state-space models of linear time-invariant systems, solution to state equations, linear transformations and canonical forms, stability analysis, controller synthesis via state feedback, tracking, state design, observer-based compensator design, optimal control problems. Dual-listed in the UALR Graduate Catalog as SYEN 5320. Three hours lecture. Three credit hours.

SYEN 4322 Modeling Transportation Systems
Prerequisites: SYEN 3312 or equivalent, SYEN 3314 or equivalent, or Consent of Instructor. The objectives of transportation analysis are defined to include mobility provision, consequence identification and selection of courses of action. A set of methodologies has evolved to exclusively address transport modeling, including demand forecasting, technology representation, network-flow, and multi-attribute assessment of performance. This course reviews very powerful tools to analyze such a class of technological and socioeconomic problems, characterized by the explicit recognition of a spatial dimension. Dual-listed in the UALR Graduate Catalog as SYEN 5322. Three lecture hours. Three credit hours.
SYEN 4325 Fuzzy Logic in Control and Systems Engineering
Prerequisite: SYEN 3364. Introduction, basic concepts of fuzzy logic, fuzzy sets, fuzzy relations, fuzzy If/Then rules, fuzzy implications and approximate reasoning, fuzzy logic in control theory, hierarchical intelligent control, fuzzy logic applications in information systems, fuzzy model identification, neuro-fuzzy systems and genetic algorithms. Dual-listed in the UALR Graduate Catalog as SYEN 5325. Three hours lecture. Three credit hours.

SYEN 4331 Advanced Computer Architecture
Prerequisites: SYEN 3336, or consent of the instructor. Introduction to Computer Systems, Instruction-Set architecture, Arithmetic/Logic Unit, Data Path and Control, Memory System Design, I/O Interface, and Advanced Architectures. Dual-listed in the UALR Graduate Catalog as SYEN 5331. Three hours lecture. Three hours lecture. Three credit hours.

SYEN 4332 Applied Operating Systems

SYEN 4334 Software System Engineering
Prerequisite: SYEN 3362. Engineering approach to the development of software systems, including the life cycle steps of project planning, requirements analysis and specification, design, production, testing, and maintenance of software systems. Three hours lecture. Three credit hours.

SYEN 4336 Advances in Communication Networks

SYEN 4340 Applied Numerical Methods
Prerequisite: MATH 3312 and 3322. MATLAB fundamentals and programming, roundoff and truncation errors, roots of equations, systems of linear algebraic equations, curve fitting, polynomial interpolation, numerical integration, ordinary differential equations, and eigenvalues. Three hours lecture. Three credit hours. Dual-listed in the UALR Graduate Catalog as SYEN 5340.

SYEN 4342 Linear Program and Network Flows
Prerequisite: SYEN 3312 or equivalent, or Consent of Instructor. This course covers salient linear optimization topics, including computational issues such as decomposition, L^U factorization, and network flow. Of equal interest is the equivalence between the network flow paradigm and discrete optimization of a model and its solution algorithms. The relationship between the network flow paradigm and discrete optimization is also emphasized. Software libraries are available to solve linear optimization models. Dual-listed in the UALR Graduate Catalog as SYEN 5342. Three hours lecture. Three credit hours.

SYEN 4329 Robust and Optimal Control
Prerequisite: SYEN 4320. Fundamentals of linear systems, signal and system spaces, power and spectral norms, feedback structure, internal stability, coprime factorization, Bode’s gain and phase relations, observability, controllability, balanced realizations, model reduction, model uncertainty, small gain theorem, controller parameterization, existence of stabilizing controllers, H^2 optimal control, synthesis of state feedback via LMs, and H^\infty control, and uncertain systems. Dual-listed in the UALR Graduate Catalog as SYEN 5329. Three hours lecture. Three credit hours.

SYEN 4350 Digital Signal Processing
Prerequisites: SYEN 3350. Signals and signal processing; discrete-time signals and systems in the time and frequency domains; digital processing of continuous-time signals; finite-length discrete transforms; discrete-time signals and systems in the z-domain; LTI discrete-time systems in the transform domain; digital filter structures; IIR digital filter design; FIR digital filter design; DSP algorithm implementation; analysis of finite word-length effects; multi-rate DSP fundamentals; multi-rate filter banks and wavelets; applications of DSP. Three hours lecture. Three credit hours.

SYEN 4352 Spatial Time Series
Prerequisites: SYEN 3312, SYEN 3314 or STAT 3353, and consent of instructor. Instead of a single stream of data, multiple streams are gathered over the target can provide better information. Because of the inherent spatial correlation among these data streams, spatial time-series can play an important role in multiple-sensor and other data-intensive applications. Image-processing applications include image rectification and restoration, image enhancement, image classification, and data merging. Signal processing applications include Spatial-temporal Autoregressive Moving-Average model and Intervention Analysis. Unifying these diverse analyses and applications is Markov Random Field Theory. Dual-listed in the UALR Graduate Catalog as SYEN 5352. Three hours lecture. Three credit hours.

SYEN 4353 Advanced Digital Communications
Prerequisites: SYEN 3154 and 3354. In-depth examination of wireless digital communication design strategies. Topics covered include digital modulation, radiowave propagation characteristics. Signal detection methods, BER performance improvement and simulation techniques RF/hardware architectures, migration path for modulation and demodulation techniques, signal processing building blocks for wireless systems, method for mitigating wireless channel impairments, perform system simulations, BER and channel models, predict system performance and evaluate trade-offs, list TDMA and CDMA techniques, and 3G evolution, describe design issues for wireless systems, particularly those issue in which transmit and receive implementation affect system performance. Dual-listed in the UALR Graduate Catalog as SYEN 5353. Three hours lecture. Three credit hours.

SYEN 4354 Power Systems Analysis
Prerequisites: SYEN 3358, or consent of the instructor. Fundamental concepts of power system analysis, transmission line parameters, system models, steady-state performance, network calculations, power flow solutions, fault studies, symmetrical components, operation, and control. Dual-listed in the UALR Graduate Catalog as SYEN 5354. Three hours lecture. Three credit hours.

SYEN 4355 Mobile Multimedia Internet
Prerequisites: SYEN 3314. The course will provide state-of-the-art perspective of the emerging landscape of Mobile Multimedia Internet. Key subject areas covered in advanced mobile internet technologies include WLAN, GPRS, 3G UMTS, and VoIP. Topics covered will involve architecture of the systems, protocol issues, the design and analysis of solutions for mobility, quality of service, mobile IP, and standardization efforts. Three hours lecture. Three credit hours.

SYEN 4356 Radio Frequency Techniques and Systems
Prerequisites: SYEN 3356. Analysis of electrostatic, magnetostatic, and dynamic fields using vector analysis, Coulomb’s Law, electric field intensity, electric flux density, Gauss’ Law. Energy and potential. Conductors, dielectrics, and capacitance. Poisson’s and Laplace’s equations. The steady magnetic field magnetic forces, materials, and inductance. Time-varying fields and Maxwell’s equations. Boundary conditions. The uniform plane wave. Plane waves at boundaries and in dispersive media. Transmission lines and antenna fundamentals. Examples are taken from the field of wireless communications. Three hours lecture. Three credit hours. Dual-listed in the UALR Graduate Catalog as SYEN 5356.

URAL Undergraduate Catalog
SYEN 4358 Cellular and Wireless Communications
Prerequisites: SYEN 3354 and SYEN 3314. Characteristics of mobile radio environment, multi-path and fading, cellular communication concepts, channel allocation and reuse, access and scheduling techniques, system capacity, power control, diversity, coding, modulation in cellular systems, examples of digital wireless systems, wireless local area networks. Three hours lecture. Three credit hours.

SYEN 4359 Optical Networking
Prerequisite: SYEN 4355 or consent of instructor. Fundamental concepts of networking, optical networks elements and devices, SONET, WDM, DWDM, optical control plane, MPLS and GMPLS. Free Space Optical Mesh Networks. Three credit hours.

SYEN 4362 Neural Networks & Adaptive Systems
Prerequisites: SYEN 3312 or consent of the instructor. Introduction to neural networks, neuron models and learning strategies, pattern recognition, multi-layer perception, back propagation, principle component analysis, self-organizing feature maps, neural networks for time series-forecasting. Dual-listed in UALR Undergraduate Catalog as SYEN 5362. Three hours lecture. Three credit hours.

SYEN 4366 Advanced Digital Systems
Prerequisites: SYEN 3330 and 3130. Advanced design principles for digital systems. Hardware modeling in the hardware description language VHDL (Verilog Hardware Description Language), compilation techniques for hardware models, and logic-level synthesis and optimization techniques for combinational and sequential circuits. Dual-listed in the UALR Graduate Catalog as SYEN 5366. Three hours lecture. Three credit hours.

SYEN 4374 Fluid Mechanics
Prerequisites: PHYS 2321, MATH 3322, Corequisite: SYEN 3378. Properties of fluids, pressure and fluid statics, fluid kinematics, Bernoulli and energy equations, momentum, dimensional analysis, flow in pipes, differential analysis, approximations of the Navier-Stokes equation, drag and lift, compressible flow, open-channel flow, turbomachinery, computational fluid dynamics (CFD). Three hours lecture. Three credit hours. Cross listed as CNMG 4374.

SYEN 4375 Mechanical Vibration
Prerequisite: SYEN 3370 or consent of instructor. Analysis of linear multi-degree of freedom systems. Lagrangian formulation, model analysis, lumped parameter analysis of discrete systems, and continuous system vibrations. Introduction to non-linear systems. Three hours lecture. Three credit hours.

SYEN 4376 Mechanics of Materials
Prerequisites: SYEN 3370 and 3372. Stress, strain, axial loading, torsion, pure bending, analysis and design of beams, shearing stresses in beams and thin-walled members, transformation of stress and strain, principal stresses, deflection of beams, columns, energy methods. Three hours lecture. Cross listed as CNMG 4376.

SYEN 4379 Heat Transfer
Prerequisite: SYEN 4374 or consent of instructor. Steady and transient heat conduction; forced, natural, and multi-phase convection; heat exchanger design and analysis; radiation heat transfer; mass transfer. Three hours lecture. Three credit hours. Cross listed as CNMG 4379.

SYEN 4380 HVACR Engineering Fundamentals
Prerequisite: CNMG 2274 or SYEN/CNMG 3378, or consent of instructor. Fundamentals of heating, ventilating, air-conditioning, and refrigeration (HVACR) engineering; refrigeration cycles; psychrometrics; indoor air quality and ventilation; heating and cooling loads. Two hours lecture. Two hours lab. Three credit hours. Cross listed as CNMG 4380.

SYEN 4381 Thermal Powerplant Engineering
Prerequisite: CNMG 2274 or SYEN/CNMG 3378, or consent of instructor. Thermodynamics of combustion and power cycles; internal combustion engines; steam turbine powerplants; gas turbine powerplants; combined cycle powerplants; introduction to alternative energy systems. Two hours lecture. Two hours lab. Three credit hours. Dual-listed in UALR Graduate Catalog as SYEN 5381.

SYEN 4383 Finite Element Analysis
Prerequisite: SYEN 3378 and 4376. Basic concepts of the finite element method (FEM); stiffness matrices, spring and bar elements; truss structures, the direct stiffness method; flexure elements; method of weighted residuals; interpolation functions for general element formulation; applications in heat transfer, fluid mechanics, and solid mechanics; structural dynamics. Dual-listed in UALR Graduate Catalog as SYEN 5383. Three hours lecture. Three credit hours.

SYEN 4384 Computer Methods in Fluids and Heat Transfer
Prerequisite: SYEN 4374, or with instructor’s consent. Modeling and simulation of thermal-fluid problems using commercial software, finite volume method, solution algorithms for pressure-velocity coupling, solution of discretized equations, unsteady flows, uncertainty in CFD modeling, methods for dealing with complex geometrics, modeling of combustion, heat transfer, and unsteady flows. Three hours lecture. Three credit hours.

SYEN 4385 Systems Engineering Capstone Design I
Prerequisite: completion of at least 40 credit hours of SYEN courses. First semester of systems engineering capstone design sequence. Focuses on the requirements definition process and involves designing a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, using appropriate engineering standards. Students work in multidisciplinary teams on system engineering design projects and make formal written and oral presentations of their preliminary work. Three hours lecture. Three credit hours.

SYEN 4386 Systems Engineering Capstone Design II
Prerequisite: SYEN 4385. Second semester of systems engineering capstone design sequence. Focuses on the solution definition process and involves designing a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, using appropriate engineering standards. Students work in multidisciplinary teams on system engineering design projects and make formal written and oral presentations of their preliminary work. Two hours lecture, two hours lab. Three credit hours.

SYEN 4389 Professional Engineering Licensure
Prerequisite concurrent: Senior standing and registration for the Fundamentals of Engineering exam, or consent of instructor. Legal, regulatory, and ethical issues related to the practice of engineering; preparation for engineering licensure examinations. Three hours lecture. Three credit hours. Cross listed as CNMG 4389.

SYEN 4391 Cooperative Education in Systems Engineering
Prerequisites: SYEN 3391, an overall GPA of 2.5 or higher, completion of 40 or more credit hours of systems engineering courses with a GPA of 2.5 or higher, and permission of the systems engineering cooperative education faculty coordinator. This course is for qualified students who would like to combine classroom study with at least 200 hours of engineering-related paid employment. This course is a partnership between the student, the employer, the systems engineering faculty, and the UALR Office of Cooperative Education. An individualized Cooperative Education Learning Agreement will specify the detailed work assignment, including employer, supervisor, job title, work schedule, and rate of pay, as well as the academic requirements, including learning objectives, learning activities, documentation of learning, learning assessments, and grading policy. This course will be allowed to satisfy up to six hours of program electives. Three credit hours.

SYEN 4199, 4299, 4399, 4499 Special Topics
Prerequisite: consent of instructor. Advanced specialized topics of current interest in systems engineering. Topics vary with faculty interest and availability. Dual-listed in the UALR Graduate Catalog as SYEN 5199, 5299, 5399, 5499. One, two, three, or four credit hours. One, two, three, or four credit hours.
The College of Professional Studies offers programs in the areas of communication, human services, and public affairs. At the undergraduate level the college offers degree programs in audiology and speech pathology, criminal justice, mass communication, social work, and speech communication. The mass communication program also offers a program in professional and technical writing jointly with the Department of Rhetoric and Writing in the College of Arts, Humanities, and Social Sciences. In addition to the baccalaureate programs, the college offers a two-year associate’s degree in law enforcement.

At the graduate level there are degree programs in audiology and speech pathology, criminal justice, applied communication, journalism, public administration, social work, and gerontology. Ph.D. programs are available in communication sciences and disorders, and criminal justice. The college also offers graduate certificate programs in gerontology, marriage and family therapy, nonprofit management, and conflict mediation. These programs are described in the UALR Graduate Catalog.

General Information

Each program in the college takes an applied approach to professional training of students and balances the curriculum between the academic and the professional. The college places scholarship into context by making its programs highly practical and relevant to the job market.

The college has a strong commitment of outreach to the community. As a professional college, it has opportunities to contribute skills and expertise to serve the economic and community development needs in Arkansas and across the nation. The Institute of Government and MidSOUTH Center provide opportunities for public service, as do five centers within the College (Center for Stuttering Research and Treatment, Center for Senior Justice, Center for Juvenile Justice, Center for Environmental Criminology, Center for Nonprofit Organizations and Center for Public Collaboration). These outreach units provide not only extensive faculty involvement but also opportunities for student involvement as well in service learning, undergraduate research and internships. All programs in the college make extensive use of student internships, residencies, and mentorships to help students gain practical experience while in school.

Most departments in the college offer minors for students who major in another field. Descriptions of minors appear in the descriptions of individual departments.

Minor in Human Services

The interdisciplinary human services minor provides an opportunity to sample course work in several professional areas in human services. This minor is an excellent option for students whose career path may bring them into contact with various social services, law enforcement or public administration.

The minor in human services requires 18 hours of course work, including GERO 2300, PADM 3331, SOWK 1301, SPCH 2310 and six hours to be chosen from a list of approved electives with advisement from the dean’s office. A copy of the list of approved electives may be obtained from the dean’s office, which administers the minor or on the College of Professional Studies web page.

Departments

**Department of Audiology & Speech Pathology**
- Bachelor of Science in Communication Sciences and Disorders, with UAMS

**Department of Criminal Justice**
- Associate of Science in Law Enforcement
- Bachelor of Arts in Criminal Justice

**School of Mass Communication**
- Bachelor of Arts in Mass Communication

**Department of Public Administration**
- Some upper-level courses in Public Administration are offered but there is not an undergraduate major for this program

**School of Social Work**
- Bachelor of Social Work

**Department of Speech Communication**
- Bachelor of Arts in Speech Communication
The undergraduate program in audiology and speech pathology is a pre-professional program following the guidelines of the American Speech-Language-Hearing Association (ASHA). The undergraduate curriculum by itself does not certify the student to work as a professional. The program offers the degree of Bachelor of Science in Communication Sciences and Disorders, providing the pre-professional background needed to pursue graduate training, Arkansas Board of Examiner licensing, ASHA certification in speech-language pathology or audiology, and American Board of Audiology certification in audiology.

The department offers two clinical graduate degrees: a Master of Science degree in Communication Sciences and Disorders and a Doctor of Audiology degree. Both clinical degrees are offered as part of a consortium with the College of Health Professions of the University of Arkansas for Medical Sciences. These clinical graduate programs are accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of ASHA.

**General Information**

Students considering careers in audiology and/or speech-language pathology should consult the Undergraduate Coordinator, for advisement early in their college career. Students enrolling in this major must complete a graduate program in audiology and/or speech-language pathology to practice in those fields. Students may, however, complete the pre-professional B.S. degree and choose to work or pursue advanced training in other professional fields of employment, including Special Education, Social Work or several others. Students with baccalaureate degrees in other areas who are interested in pursuing speech pathology as a career should see Dr. Betholyn Gentry. These post baccalaureate students will be required to take 30 hours of undergraduate courses before application to the graduate program is allowed. Students with baccalaureate degrees in other areas who are interested in pursuing audiology as a career should see Dr. Nannette Nicholson. These post baccalaureate students can be admitted directly into the Doctor of Audiology program but must take 6 hours of undergraduate courses, which will not count toward the Doctor of Audiology degree.

Students are required to achieve a minimum grade point average of 3.0 on all college coursework taken in order to be admitted to the program. Students must achieve and maintain a minimum grade point average of 3.0 in the major and overall in order to enroll in practicum. Only grades of C or greater are accepted in AUSP courses to fulfill requirements for the major. Students will be allowed only two attempts to earn a grade of C or greater in the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUSP 3350</td>
<td>Phonetics</td>
</tr>
<tr>
<td>AUSP 3360</td>
<td>Language and Speech Acquisition</td>
</tr>
<tr>
<td>AUSP 3361</td>
<td>Speech Anatomy and Physiology</td>
</tr>
<tr>
<td>AUSP 3364</td>
<td>Speech Science</td>
</tr>
</tbody>
</table>

or the department will drop them from the major. Undergraduate students transferring from another college or university into the department must meet department admission requirements. Degree-seeking transfer students must take at least 15 hours in the department.

Suggested minors include gerontology, human services, psychology, any of the sciences, sociology, speech communication, and sign language studies. However, students may complete any minor they choose to.

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### Bachelor of Science in Communication Sciences and Disorders

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**

See page 25 for requirement details.

**Students must take:**

- CHEM 1409 Chemistry and Society
- MATH 1321 College Algebra
- One biological science
- One behavioral science
- One social science
Second Language Proficiency (none required)

Major (41 hours)

Note: See the following page for course descriptions and prerequisites.

- AUSP 2360 Introduction to Speech and Hearing Disorders
- AUSP 3350 Phonetics
- AUSP 3360 Language and Speech Acquisition
- AUSP 3361 Speech Anatomy and Physiology
- AUSP 3362 Hearing Science
- AUSP 3363 Disorders in Articulation
- AUSP 3364 Speech Science
- AUSP 3365 Clinical Management
- AUSP 4162 Practicum I
- AUSP 4163 Practicum II
- AUSP 4363 Voice and Stuttering Disorders
- AUSP 4364 Differential Diagnosis of Speech and Language Disorders
- AUSP 4366 Language Disorders
- AUSP 4368 Audiology
- AUSP 4369 Audiologic Rehabilitation

Electives (3 hours)

One statistics course from among the following:
- PSYC 2310 General Psychological Statistics
- SOCI 3381 Social Statistics
- STAT 2350 Introduction to Statistical Methods

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

Courses in Audiology and Speech Pathology (AUSP)

AUSP 2360 Introduction to Speech and Hearing Disorders
A description and discussion of speech, language, and hearing disorders; therapy surveys and assessment techniques. Three credit hours.

AUSP 3350 Phonetics
In-depth study of principles of phonetics and their application to speech. Three credit hours.

AUSP 3360 Language and Speech Acquisition
Prerequisite: consent of instructor. The study of normal verbal speech and language acquisition. Three credit hours.

AUSP 3361 Speech Anatomy and Physiology
Anatomy and physiology of the speech and hearing mechanism and associated structures. Three credit hours.

AUSP 3362 Hearing Science
Prerequisite: AUSP 2360 or consent of instructor. An introduction to the study of hearing. Emphasis will be given to the elements of sound, auditory physiology, psychoacoustical methods, and theories of hearing. Three credit hours.

AUSP 3363 Disorders in Articulation
Prerequisites: AUSP 2360 and 3350 or consent of instructor. Theory, evaluation, and therapeutic procedures with functional and organic articulatory and phonological disorders. Three credit hours.

AUSP 3364 Speech Science
Prerequisite: AUSP 3350. Speech as an acoustic phenomenon; special reference to voice, rate, articulation; survey of experimental literature; theoretical, practical consideration of mechanical, electrical instruments used in diagnostic, therapeutic, experimental aspects of speech pathology, audiology. Three credit hours.

AUSP 3365 Clinical Management
Prerequisite: AUSP 2360. For majors only. Clinical procedures for working in various practicum settings, using diagnostic and therapeutic techniques, writing behavioral objectives, procedures for report writing, and practical experience with clinician-made and commercial materials. First in the series of practicum courses. Three credit hours.

AUSP 4162 Practicum I
Supervised clinical practice in the areas of speech and/or language disorders. For majors only. Requires at least 15 client clock hours. Must be taken first in clinical practicum series. Prerequisites: Consent of instructor, AUSP 2360, 3350, 3360, 3365, 3363, and/or 4366. Minimum grade point requirement: 3.0 in major and overall (all college coursework considered in overall calculation). One credit hour.

AUSP 4163 Practicum II
Supervised clinical practice in the areas of speech and/or language Supervised clinical practice in the areas of speech and/or language disorders. For majors only. Requires at least 15 client clock hours. Second course in clinical practicum series. Prerequisites: Consent of instructor, AUSP 3365 and 4162. Minimum grade point requirement: 3.0 in major and overall (all college coursework considered in overall calculation). One credit hour.

AUSP 4164 Practicum III
Prerequisites: AUSP 3365, consent of instructor. For majors only. Supervised clinical activity in specialized areas. Requires 60 client clock hours. Only two practicums may be taken on the undergraduate level. One credit hour.

AUSP 4363 Voice and Stuttering Disorders
Prerequisites: AUSP 2360, 3361, 3350, or consent of instructor. Etiology, evaluative, and therapeutic procedures for persons with voice disorders and with various types of verbal disfluency behaviors. Three credit hours.

AUSP 4364 Differential Diagnosis of Speech and Language Disorders
Prerequisites: AUSP 2360, 3360, 3363, or consent of instructor. Interview and test procedures used in evaluating speech and language disorders. Emphasis on use and interpretation of standardized test measures. Three credit hours.

AUSP 4366 Language Disorders
Prerequisite: AUSP 3360 or consent of instructor. Language disorders in adults and children including types of language disorders, etiology, neurological and theoretical correlates, diagnostic procedures and test interpretation, and treatment protocols. Dual-listed in the UALR Graduate Catalog as AUSP 5366. Three credit hours.

AUSP 4368 Audiology
Prerequisite: AUSP 3362. Principles of auditory reception; the hearing mechanism; problems involved in measuring, evaluating, and conserving hearing. Clinical observation. Dual-listed in the UALR Graduate Catalog as AUSP 5368. Three credit hours.

AUSP 4369 Audiologic Rehabilitation
Prerequisite: AUSP 2360, 4368, or consent of instructor. Principles of audiologic habilitation/rehabilitation with infants, children, and adults with hearing loss. Discussion of communication and education options for children with hearing loss, counseling techniques, communication strategies, and the use of amplification and other assistive technologies. Three credit hours.

AUSP 4101, 4201, 4301 Independent Study
Students will read and research in a selected area of communicative disorders. Projects and papers must be approved by the instructor before registration. One, two, or three credit hours.
The department provides courses for students pursuing careers in law enforcement, corrections, and juvenile and adult courts. A bachelor of arts in criminal justice, an associate of science in law enforcement, and a minor in criminal justice are available through the department.

**General Information**

**Major in Criminal Justice**

A major in criminal justice requires 30 credit hours, including CRJU 2300, 3303, 3304, 4300, and 4304. While the department will consider similar courses from other schools as substitutes for the CRJU core courses, the acceptance of those courses is solely at the department’s discretion. Students majoring in criminal justice must complete at least 15 hours within the Department of Criminal Justice at UALR. Admission to the major requires completion of RHET 1311, RHET 1312 and GPA of 2.25 or better; transfer students must have at least 12 hours at UALR; however, students may be provisionally admitted to the major and advised within the department before fully meeting requirements for admission to the major. For information regarding graduate study in criminal justice, see the UALR Graduate Catalog.

**Minor in Criminal Justice**

A minor in criminal justice requires 18 credit hours, which must include CRJU 2300.

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### Associate of Science Degree in Law Enforcement

This two-year associate degree program in law enforcement requires 60 hours, including CRJU 2300 and 3304. Students pursuing the AS in law enforcement must take at least nine of the required criminal justice hours within the Department of Criminal Justice at UALR. Twenty of the 60 hours must be at the 2000-level or higher. Credits earned for the associate degree may be applied to the Bachelor of Arts in Criminal Justice.

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### Associate of Science in Law Enforcement

**General:** 60 minimum total hours, including 20 hours of 2000-level courses or higher, and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**

See page 25 for requirement details.

**Second Language Proficiency (0-9 hours)**

Completion of 2000-level second language course or demonstrate equivalent proficiency. (See page 26 for details)

**Major (15 hours)**

**Required Courses (6 hours)**

- CRJU 2300 Introduction to Criminal Justice (also counts toward the core)
- CRJU 3304 Police and Society

**Electives (Select 9 hours)**

- CRJU 3301 Criminal Evidence
- CRJU 3302 Legal Aspects of Law Enforcement
- CRJU 3303 Corrections Survey
- CRJU 3105, 3205, 3305 Seminar in Criminal Justice
- CRJU 3306 Police Administration and Management
- CRJU 3307 Criminal Law
- CRJU 3309 Cybercrime
- CRJU 3310 Race/Ethnicity and Criminal Justice
- CRJU 3311 Gangs
- CRJU 3312 Victimology
- CRJU 3313 Crime and Science: An Introduction to Forensic Science
- CRJU 3314 Statistics in Criminal Justice
- CRJU 3315 Sex Crimes
- CRJU 3337 Juvenile Delinquency
- CRJU 3338 Criminological Theory
- CRJU 3348 Internship I

**Minor (none required)**

**Unrestricted General Electives**

Remaining hours, if any, to reach 60 minimum total hours, 20 hours of 2000-level courses or higher or 30 hours in residence.
Bachelor of Arts in Criminal Justice

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. (See page 26 for details)

Major (30 hours)
Required Courses (15 hours)
CRJU 2300 Introduction to Criminal Justice (also counts toward the core)
CRJU 3303 Survey of Corrections
CRJU 3304 Police and Society
CRJU 4300 Crime and Behavior
CRJU 4304 Research Methods

Electives (Select 15 hours)
CRJU 3301 Criminal Evidence
CRJU 3302 Legal Aspects of Law Enforcement
CRJU 3105, 3205, 3305 Seminar in Criminal Justice
CRJU 3306 Police Administration and Management
CRJU 3307 Criminal Law
CRJU 3309 Cybercrime
CRJU 3310 Race/Ethnicity and Criminal Justice
CRJU 3311 Gangs
CRJU 3312 Victimology
CRJU 3313 Crime and Science: An Introduction to Forensic Science
CRJU 3314 Statistics in Criminal Justice
CRJU 3315 Sex Crimes
CRJU 3337 Juvenile Delinquency
CRJU 3338 Criminological Theory
CRJU 3348 Internship I
CRJU 3349 Internship II
CRJU 3396 Psychology and the Criminal Process
CRJU 4199, 4299 Criminal Justice Workshop
CRJU 4301 Judicial System and Process
CRJU 4302 Law and Society
CRJU 4303 Readings in Criminal Justice
CRJU 4305 Juvenile Law and Process
CRJU 4307 Drug Abuse
CRJU 4309 Crime Prevention
CRJU 4310 Terrorism
CRJU 4311 Security Management
CRJU 4313 Information Security
CRJU 4120, 4220, 4320 Independent Study
CRJU 4332 Corrections Psychology
CRJU 4333 Cooperative Education
CRJU 4351 Constitutional Law II
CRJU 4380 Comparative Criminal Justice Systems

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Courses in Criminal Justice (CRJU)

CRJU 2300 Introduction to Criminal Justice
Basic understanding of legal and ethical foundations of criminal justice and the major components of the criminal justice system. Three credit hours. (ACTS Course Number CRJU 1023)

CRJU 3105, 3205, 3305 Seminar in Criminal Justice
Prerequisite: CRJU 2300. A study of special problems, issues, or trends relating to the criminal justice system. May be repeated with a change of subject and with permission of the department chairperson. One, two, or three credit hours.

CRJU 3301 Criminal Evidence
Prerequisite: CRJU 2300. An analysis of the legal problems associated with the investigation of crime; the acquisition, preservation, presentation of evidence; principles of proof in criminal proceedings. Three credit hours.

CRJU 3302 Legal Aspects of Law Enforcement
Prerequisite: CRJU 2300. A study of the leading constitutional cases in the area of criminal justice with particular emphasis on cases dealing with search and seizure, the privilege against self-incrimination, assistance of counsel, and fair trial guarantees. Three credit hours.

CRJU 3303 Survey of Corrections
Explores the operation of the correctional system within the context of society and within the criminal justice system, the integration of criminology, the courts and corrections, the relationship the correctional system has to society, its interaction with the other components within the criminal justice system, and its historical foundations. Three credit hours.

CRJU 3304 Police and Society
This course will examine the relationship between the police and the community from several different perspectives. We will start with an introduction to the history, practices and issues related to the law enforcement function in our society, followed by an overview of police functions and responsibilities at the local, state, and federal levels. Police operations will be examined relative to effectiveness in crime control, delivery of services, and maintenance of order. We will review contemporary policy issues, programs and strategies. Finally, we will examine existing programs, problems, and potential directions as well as successes and failures in policing. Primary emphasis will be placed on community policing and its impact on policing in the 21st century. Three credit hours.

CRJU 3306 Police Administration and Management
Basic understanding of the part police play within society and within the criminal justice system. Explores the relationship the police have to society, their interaction with the other components within the criminal justice system, and their historical foundations. Discusses management strategies that have been employed over the past century in policing emphasizing the daily administration of a police agency. Three credit hours.

CRJU 3307 Criminal Law
Prerequisite: CRJU 2300. An analysis of criminal acts, elements of specific crimes, and defenses permitted in the United States legal system. Three credit hours.

CRJU 3309 Cybercrime
Prerequisite: IFAS 2300 or consent of instructor. Designed to acquaint students with law enforcement’s response to crimes committed using computers, networks, and the internet. Three credit hours.

CRJU 3310 Race/Ethnicity and Criminal Justice
Prerequisite: CRJU 2300. An exploration of the differing experiences of racial/ethnic groups as they come into contact with crime and the criminal justice system. Three credit hours.

CRJU 3311 Gangs
Prerequisite: CRJU 2300. An examination of the historical, cross-cultural, and current state of gang involvement. Three credit hours.

CRJU 3312 Victimology
Prerequisite: CRJU 2300. A review of the distribution and causes of crime from the point of view of the victim, as well as detailing the interface between victims and the legal and social service communities. Three credit hours.
CRJU 3313 Crime and Science: An Introduction to Forensic Science
A general overview of the field of forensic science, the application of “science,” and the scientific method to the law. Topics such as criminalistics, including firearms and toolmarks, trace evidence, fingerprints, toxicology, and biological evidence, such as serology and DNA. Forensic pathology, forensic odontology, forensic anthropology, and forensic psychology will be introduced. An experience oriented component will be provided by currently active forensic specialists. Three credit hours.

CRJU 3314 Statistics in Criminal Justice
This course is an introduction to data analysis in criminology and criminal justice. The primary goal of the course is to introduce students to the statistics and the problems that are commonly encountered in crime research. Emphasis will be placed on the application of quantitative measures to the study of prevention, interdiction, and suppression of criminal behavior. Three credit hours.

CRJU 3315 Sex Crimes
This course will take an in-depth look at sex offenders and sex crimes. Students will explore possible causes of sex crimes, treatment options for sex offenders, victimization issues and types of sex offenders. Current research involving special topics as they relate to sex offenses will also be addressed in this course. Three credit hours.

CRJU 3337 Juvenile Delinquency
Juvenile delinquent behavior, problems, theory, cause, control and prevention. Cross listed with SOCI 3337. Three credit hours.

CRJU 3338 Criminological Theory
This course will provide the student with a comprehensive examination of criminological theory. The course surveys the major schools of thought related to crime causation and particular theories about crime and delinquency, places these theories in historical context, and reviews the primary assumptions of these theories and conclusions reached in criminological research. Three credit hours.

CRJU 3348 Internship I
Prerequisite: consent of instructor. Experience in law enforcement agencies, juvenile courts, probation and parole departments, other correctional institutions, delinquency control programs, and public or voluntary agencies. Three credit hours.

CRJU 3349 Internship II
A continuation of CRJU 3348. Three credit hours.

CRJU 3396 Psychology and the Criminal Process
An exploration of the contributions of psychology to the practice of law, law enforcement, and other related areas, illustrated in terms of testimony and court procedures, psychopathology, correctional services, the development of laws, and social psychology. Three credit hours.

CRJU 4199, 4299 Criminal Justice Workshop
Subjects vary. Sixteen hours of workshop time will equal one credit hour. One or two credit hours.

CRJU 4300 Crime and Behavior
Enables students to identify and understand the major schools of thought in criminology and to integrate them into a comprehensive application to the real world. Three credit hours.

CRJU 4301 Judicial System and Process
Prerequisites: CRJU 2300. A survey of state, local, and federal judicial systems and their interrelationships. Examines judicial structures, functions, and decision-making procedures. Dual-listed in the UALR Graduate Catalog as CRJU 5301. Three credit hours.

CRJU 4302 Law and Society
Prerequisites: CRJU 2300. An examination of the origins and history of law in society, including the evolving roles of judges, juries, defense attorneys, and prosecutors. Examines the evolution of civil and criminal law, the adversary system, and the concept of justice. Dual-listed in the UALR Graduate Catalog as CRJU 5302. Three credit hours.

CRJU 4303 Readings in Criminal Justice
Prerequisite: CRJU 2300. A survey of the current literature on crime and law enforcement, with emphasis on special research reports and periodical and journal articles in criminal justice, law sociology, and related fields. Three credit hours.

CRJU 4304 Research Methods
Instruction in reading and comprehension of reports and research within the criminal justice field, identifying the application of various research techniques and statistical methods, and producing a draft research proposal. Three credit hours.

CRJU 4305 Juvenile Law and Process
Prerequisite: CRJU 2300. An exploration of the philosophical basis, process, legal rights of juveniles, and roles of the major participants in the juvenile justice system. Three credit hours.

CRJU 4307 Drug Abuse
A study of frequently abused drugs, with emphasis on the personal, social, and legal consequences of drug abuse and on the treatment of drug addiction. Three credit hours.

CRJU 4309 Crime Prevention
This course provides an overview of the fundamental concept of crime prevention, beginning with a review of crime statistics and crime causation theories and their relevance in the prevention of crime. The course will review current crime prevention strategies as they relate to crime prevention efforts and explore physical environments that positively influence human behavior. Three credit hours.

CRJU 4310 Terrorism
This course provides an overview of terrorism as a political weapon, definitions of terrorism, an examination of the causes of terrorism, precepts of domestic and international terrorism, and the religious foundations of terrorism. The course will review current active terrorist groups, their organizational structures, philosophies and networks. Three credit hours.

CRJU 4311 Security Management
This course is an examination of the principles and issues of organizational security management. The course will examine the historical development of public and private security and its form and practice in modern society. Students will examine the fundamental challenges embodied in various aspects of security such as personnel, facility, and information security. Three credit hours.

CRJU 4313 Information Security
This course is an examination of the administrative aspects of information security management and is designed to develop knowledge and skills for protection of information and information systems within organizations. Students will be exposed to a wide spectrum of security activities, methods, methodologies, and procedures. Three credit hours.

CRJU 4312, 4320, 4330 Independent Study
Prerequisites: 15 hours of CRJU courses, senior standing with 3.00 GPA, consent of instructor. Advanced study and research. One, two, or three credit hours.

CRJU 4332 Corrections Psychology
Prerequisite: CRJU 2300. A review of theoretical and applied issues in the practice of correctional psychology. Focus on relevant empirical studies and their application in a correctional context. Three credit hours.

CRJU 4333 Cooperative Education
Prerequisite: consent of instructor. Experience in law enforcement agencies, juvenile courts, probation and parole departments, other correctional institutions, delinquency control programs, and public or voluntary agencies. Three credit hours.

CRJU 4351 Constitutional Law II
Civil liberties, analysis of leading constitutional decisions focusing on human freedom and fundamental rights. Emphasis on religious liberty, freedom of expression, racial equality, privacy, criminal procedures and the dynamics of Supreme Court decision making. Cross listed with POLS 4351. Three credit hours.

CRJU 4380 Comparative Criminal Justice Systems
Prerequisite: CRJU 2300. An analysis of the law enforcement, judicial, and correctional systems of other nations, with emphasis on comparison with the United States system of criminal justice. Dual-listed in the UALR Graduate Catalog as CRJU 5380. Three credit hours.
School of Mass Communication

Stabler Hall, Room 705 | (501) 569-3250 | fax (501) 569-8371 | ualr.edu/masscomm

Director:
Hoerschelmann, Olaf, Professor

Associate Professors:
Boateng, Kwasi
Edwards, Tim
Rollberg, Jeanne N.
Giese, Jon Mark
Rhodes, Carlton M. “Sonny”
Zacher, Dale

Assistant Professors:
Barnes, Amy

Senior Instructor:
Weekley, David C.

The School of Mass Communication combines the strengths of courses in radio, television, film, new media, and journalism to provide students with exposure to a broad spectrum of media studies needed in today’s information world. Students may receive a degree in Mass Communication with an emphasis in either Journalism, Public Relations/Strategic Communication, Media Production and Design, or Mass Media. If choosing the Journalism emphasis, students must select either the Newspaper and Magazine option or the Radio and Television option. If choosing the Media Production and Design emphasis, students must select either the Motion Picture option or the Media Production option. The School also offers students a variety of mass communication minors and certificate programs for students already holding the bachelor’s degree.

The School also offers a master of arts degree in journalism. See the UALR Graduate Catalog for details.

General Information
All emphases in the BA in Mass Communication are 42 hours with a required minor or cognate area to be designed by the student and his or her advisor. Each emphasis has a capstone class. Students should take their emphasis capstone course during their final semester in residence or as near to it as possible.

For returning or transfer students, skills courses completed more than five years ago may not count toward degree requirements and are subject to evaluation on a case-by-case basis. Opportunities exist to gain credit for professional experience or certification.

All material submitted by students as assignments in classes may be used for broadcast or publication. Students taking writing courses must have at least minimal word processing ability.

Students who seek a major from the School of Mass Communication may not seek a minor from the School of Mass Communication.

Honor Society
The School sponsors chapters of Kappa Tau Alpha, the national journalism scholarship society, the National Association of Black Journalists, the Public Relations Student Society of America, the National Broadcasting Society, and the Society of Professional Journalists.

Scholarships
School of Mass Communication majors are invited to apply for annual scholarships contributed by the following donors:

- Arkansas Democrat-Gazette
- Friends of Edward Jay Friedlander
- Friends of William K. Rutherford
- Herbert and Gertrude Latkin
- Friends of Harry Ashmore
- Family of Roy Mitchell, and Edith Wood Sweezy
- Governor Orval E. Faubus Scholarship
- Robert Hamilton Memorial Scholarship
- Irby Scholarship
- Gannett Multi-media News Producers Scholarship
- Television Broadcasters of Arkansas Scholarship
- Steve Stephens Golden Mike Award
- David M. Guerra News Scholarship
- Robert L. Brown Scholarship
- TreDay.Com Scholarship Project
- Jerol Garrison Scholarship

Students may also apply for the following annual scholarships:

- Arkansas Broadcasters Association-Patricia Carter Willcox Scholarship
- Signal Media Scholarship
- Today’s THV/Hola Arkansas Scholarship
- R.D. Doubleday Scholarship
- Arkansas Broadcasters Association-Sam Anderson Scholarship

Scholarship opportunities may vary each year.

Facilities
The School’s facilities include a professionally equipped television studio, television field production equipment, and nonlinear editing laboratories. A computerized newsroom with computer-based production facilities is also available for student use, in addition to three computer labs for Web composition and design, graphic design, nonlinear editing, and word processing.

The School operates University Television and has cooperative arrangements with KUAR and KLRE, two public radio stations that are affiliated with the University. Students produce programs for all three media outlets.

Admission to the Mass Communication Major
After admission to UALR, any student may declare a major in Mass Communication. To discuss opportunities in the School of Mass Communication, students should visit the School director in Stabler Hall 705, or call the school at (501) 569-3250.
Bachelor of Arts in Mass Communication
Journalism Emphasis

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.
(See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (42 hours)
School of Mass Communication Foundation Courses (12 hours)
MCOM 2320 Issues in Mass Media Writing
MCOM 2330 Mass Media and Society (Also counts toward the core.)
MCOM 3310 Introduction to Web Principles and Design
MCOM 3315 Mass Media Research

Emphasis Coursework (30 hours)
Emphasis Foundation Courses (9 hours)
MCOM 2350 Beginning Reporting
MCOM 3365 Radio-Television Journalism
MCOM 4352 News Media and the First Amendment

Journalism Emphasis Options
(Newspaper and Magazine or Radio and Television)
Newspaper and Magazine Option – 21 hours
MCOM 3320 Advanced Reporting
MCOM 3350 Introduction to News Editing
MCOM 4350 Design and Production OR MCOM 4359 Feature and Magazine Writing
MCOM 4388 Reporting of Public Affairs
Nine hours of upper-level electives from SMC courses
OR
Radio and Television Option – 21 hours
MCOM 2300 Introduction to Media Production
MCOM 3366 Electronic News Gathering
MCOM 3367 News Producing OR MCOM 3345 Studio Production
MCOM 4395 Electronic Media Capstone
Nine hours of upper-level electives from SMC courses

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in Mass Communication
Media Production and Design Emphasis

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.
(See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (42 hours)
School of Mass Communication Foundation Courses (12 hours)
MCOM 2320 Issues in Mass Media Writing
MCOM 2330 Mass Media and Society (Also counts toward the core.)
MCOM 3310 Introduction to Web Principles and Design
MCOM 3315 Mass Media Research

Emphasis Foundation Courses (9 hours)
MCOM 2300 Introduction to Media Production
MCOM 3360 Law, Policy, Ethics
MCOM 3390 Nonlinear Video Editing I
OR MCOM 4340 Introduction to Digital Graphics and Animation

Media Production and Design Emphasis Options (21 hours)
(Media Production or Motion Picture)
Media Production Option
MCOM 2350 Beginning Reporting
MCOM 3345 Studio Production
MCOM 4342 Movie Making Techniques
OR MCOM 4354 Documentary Techniques
MCOM 4332 Digital Audio Production
OR MCOM 4385 Advanced Web Design
MCOM 4320 Non-Linear Video Editing II
OR MCOM 4330 Lighting
MCOM 4395 Electronic Media Capstone
Three hours of upper-level electives from SMC courses

Motion Picture Option
MCOM 2306 Introduction to Motion Pictures
MCOM 2380 Strategic Communication Principles
MCOM 4308 Screenwriting
MCOM 4395 Electronic Media Capstone
MCOM 4342 Cinema Techniques
OR MCOM 4354 Documentary Techniques
MCOM 3355 History of American Movies
OR MCOM 3356 Movie Criticism
OR MCOM 3357 Film Genres
OR MCOM 3358 Film Directors
Three hours of upper-level electives from SMC courses

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Arts in Mass Communication
Strategic Communication Emphasis

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (42 hours)
School of Mass Communication Foundation Courses (12 hours)
MCOM 2320 Issues in Mass Media Writing
MCOM 2330 Mass Media and Society (Also counts toward the core.)
MCOM 3310 Introduction to Web Principles and Design
MCOM 3315 Mass Media Research

Emphasis Coursework (21 hours)
MCOM 2350 Beginning Reporting
MCOM 2380 Strategic Communication Principles
MCOM 3320 Advanced Reporting
MCOM 3360 Law, Policy, Ethics
MCOM 4380 Public Relations Writing
MCOM 4381 Public Relations Cases
MCOM 4382 Public Relations Campaigns

Emphasis Electives (9 hours)
Choose one course from each of the following groups:
Group I:
ADVT 3300 Introduction to Advertising
MKTG 3350 Principles of Marketing
MCOM 4390 Mass Communication Internship
Group II:
MCOM 4312 Management Strategies
MCOM 4350 Production and Design
MCOM 4359 Feature and Magazine Writing
MCOM 4385 Advanced Web Design
Group III:
Any one course from other SMC courses

Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Secondary Teacher Licensure
The School of Mass Communication also offers a Journalism Endorsement curriculum for any teacher certified in grades 7-12. The Journalism Endorsement curriculum consists of the following four courses, at least three of which must be completed at UALR:
MCOM 2330 Mass Media and Society
MCOM 2350 Beginning Reporting
MCOM 3320 Advanced Reporting
MCOM 3330 Photojournalism

Students desiring to complete one class at a campus other than UALR must obtain prior approval from the School of Mass Communication.

Bachelor of Arts in Mass Communication
Mass Media Emphasis

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (42 hours)
School of Mass Communication Foundation Courses (12 hours)
MCOM 2320 Issues in Mass Media Writing
MCOM 2330 Mass Media and Society (Also counts toward the core.)
MCOM 3310 Introduction to Web Principles and Design
MCOM 3315 Mass Media Research

Emphasis Coursework (30 hours)
Work Chosen from two of the three remaining School of Mass Communications Emphases:
1. Journalism,
2. Media Production and Design, or
3. Strategic Communication

Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
School of Mass Communication Minors
The School of Mass Communication offers five minors. Students majoring in the School may not minor in the School.

Minor in Journalism
A minor in journalism requires these 21 hours of courses:
- MCOM 2320 Issues in Mass Media Writing
- MCOM 2330 Mass Media and Society
- MCOM 2350 Beginning Reporting
- MCOM 3360 Law, Policy, and Ethics
- or MCOM 4352 News Media and the First Amendment
- MCOM 3365 Radio-TV Journalism
Six upper-level hours from one of the two journalism options

Minor in Media Production and Design
A minor in Media Production and Design requires these 21 hours of courses:
- MCOM 2300 Introduction to Production
- MCOM 2308 Introduction to Scriptwriting
- MCOM 2320 Issues in Mass Media Writing
- MCOM 2330 Mass Media and Society
- MCOM 3345 Studio Production
- or MCOM 4342 Movie Making Techniques
- or MCOM 4354 Documentary Techniques
- MCOM 3390 Nonlinear Video Editing I
One upper-level (3000-4000) elective from the Media Production and Design emphasis.

Minor in Strategic Communication
A minor in Strategic Communication requires the following 21 hours:
- MCOM 2320 Issues in Mass Media Writing
- MCOM 2330 Mass Media and Society
- MCOM 2350 Beginning Reporting
- MCOM 4380 Public Relations Writing
- MCOM 4381 Public Relations Cases
- ADVT 3340 Introduction to Public Relations
- MCOM 4310 Media Sales
- or MCOM 4312 Management Strategies
- or ADVT 3300 Introduction to Advertising
- or MKTG 3350 Principles of Marketing

Minor in Film
A minor in Film requires these 18 hours:
- MCOM 2306 Introduction to Motion Pictures
Five additional film courses, at least one from outside the School.
Film courses offered in the School of Mass Communication are:
- MCOM 3355 History of American Movies
- MCOM 3356 Movie Criticism
- MCOM 3390 Non-linear Video Editing I
- MCOM 4308 Screenwriting
- MCOM 4320 Non-Linear Video Editing II
- MCOM 4330 Lighting
- MCOM 4342 Movie Making Techniques
- MCOM 4354 Documentary Techniques
- MCM 3357 Film Genres
- MCM 3358 Film Directors
The following could apply, depending on the subject matter:
- MCOM 4389 Independent Study in Mass Communication
- MCOM 4390 Internship in Mass Communication
- MCOM 4391 Co-op in Mass Communication

For guidance in determining which outside courses are appropriate in a given semester, please contact the School’s Film Coordinator, Ben Fry, or at (501) 569-3250.

Minor in Mass Media (18 hours)
A minor in Mass Media requires 18 hours, including the following two courses:
- MCOM 2320 – Issues in Media Writing
- MCOM 2330 – Mass Media and Society

Students seeking a minor in Mass Media must meet with an advisor in the School of Mass Communication to design a plan of study for the minor prior to beginning coursework. All minor study plans must be approved by the student’s School of Mass Communication advisor. No minor study plan will be considered approved until it is signed by the student’s SMC advisor and the School of Mass Communication director. This minor is designed for the student who is seeking study in a specific area of mass media not addressed in the other minors offered by the School of Mass Communication.

Professional Certificate in Media Production and Design
The Professional Certificate in Media Production and Design is designed to serve mid-career professionals who need to either update their skills or learn new ones given the realities of the job market and changes in the field of mass communication. Students will develop the ability to think critically about various visual and aural storytelling forms, and will be able to create visual and aural stories and information packages.

Admission Requirements
Students seeking admission into the certificate program must already possess a bachelor’s degree from an accredited institution and must meet all other admission requirements for UALR.

Program Requirements
The Professional Certificate in Media Production and Design requires 18 credit hours for completion of which the following courses are required:
- MCOM 2300 Introduction to Media Production
- MCOM 2350 Beginning Reporting
- MCOM 3310 Introduction to Web Design
- MCOM 3390 Non-linear Editing I
- MCOM 4380 Public Relations Writing

Students will select any one of the following electives:
- MCOM 3315 Mass Media Research
- MCOM 3350 News Editing
- MCOM 4320 Non-linear Editing II
- MCOM 4342 Movie Making Techniques
- MCOM 4350 Production and Design
- MCOM 4354 Documentary Techniques
- MCOM 4385 Advanced Web Design

Graduation Requirements
Cumulative GPA of at least 2.0 on an approved program of study as outlined above.

Professional Certificate in Journalism
The Professional Certificate in Journalism is designed to serve mid-career professionals who need to either update their skills or learn new ones given the realities of the job market and changes in the field of mass communication. This certificate program will enable students to perform capably in professional print journalism settings, will develop students’ ability to think critically about media-related issues, and will help students understand the relationship between media and socio-political systems.
Admission Requirements

Students seeking admission into the certificate program must already possess a bachelor’s degree from an accredited institution and must meet all other admission requirements for UALR.

Program Requirements

The Professional Certificate in Journalism requires 15 credit hours for completion of which the following courses are required:

- **MCOM 2350** Beginning Reporting
- **MCOM 3320** Advanced Reporting
- **MCOM 4350** Production and Design
- **MCOM 4388** Reporting Public Affairs

Students will select any one of the following electives:

- **MCOM 3310** Introduction to Web Principles and Design
- **MCOM 4359** Feature and Magazine Journalism
- **MCOM 4389** Independent Study
- **MCOM 4390** Mass Communication Internship
- **MCOM 4350** Production and Design
- **MCOM 4354** Documentary Techniques
- **MCOM 4385** Advanced Web Design

Graduation Requirements

Cumulative GPA of at least 2.0 on an approved program of study as outlined above.

Courses in Mass Communication (MCOM)

**MCOM 2300 Introduction to Media Production**

Required in Media Design and Production sequence. Fundamentals of audio control-room procedures, audio recording and editing, single camera field production, and video editing. Emphasis on proper use and handling of equipment. Minimal exposure to video study practices. Three credit hours.

**MCOM 2306 Introduction to Motion Pictures**

Basic elements of movies, the process of movie making, and the approaches to movie aesthetics and criticism. Assignments may include viewing motion pictures at local theatres. Three credit hours.

**MCOM 2308 Introduction to Scriptwriting**

Prerequisite: **MCOM 2300** and **MCOM 2320**. Required in Media Design and Production sequence. Study and practice in basic writing and scripting skills needed for the production of electronic media messages and programs. Use of the SMC computer labs. Three credit hours.

**MCOM 2320 Issues in Mass Media Writing**

Prerequisite: RHET 1311. This course will introduce students to the general literature and issues in the convergent mass communication field, emphasizing public relations, journalism, the web, entertainment media, technology related to mass media, and the advertising that supports mass media. It will also focus on writing issues related to media. Three credit hours.

**MCOM 2330 Mass Media and Society**

Required in all School of Mass Communication majors and some minors. Survey of relationships involving mass media, culture, and various other interconnected systems, both nationally and globally. Includes discussion of functions, freedoms, and responsibilities of mass media and effects on individuals and groups. Topics will include newspapers, magazines, radio, television, Internet, and developing media. Three credit hours.

**MCOM 2350 Beginning Reporting**

Prerequisite or corequisite: **MCOM 2320**. Introduction to basic news and feature writing skills. Style and story structure for print and electronic media. Laboratory instruction and practice in writing for publication. Three credit hours.

**MCOM 2380 Strategic Communication Principles**

An examination of the evolution of strategic communication, its impact on organizations and publics, the principles, processes, theory and planning that directs strategic communication in all fields as well as the ethics and values that an organization must use to shape successful implementation of a strategic communication plan.

**MCOM 3310 Introduction to Web Principles and Design**

Prerequisites: **MCOM 2320**, and **MCOM 2350** or **MCOM 2308**. This course will introduce students to web design and development from the mass-communication perspective. It will serve as an introduction to the World Wide Web, and basic web design techniques. The course concentrates on history, social implications, navigation, authoring, and basic validation and submission of information across the Internet. In addition to theoretical and analytical foundations, the primary technologies employed are HTML 4.x; SHTML; Cascading Style Sheets; File Transfer Protocol; and Document Object Modeling. Three credit hours.

**MCOM 3315 Mass Media Research**

Prerequisite: Grade of C or greater in **MCOM 2320** and **MCOM 2330**. This course will introduce students to a survey of research methods and their application in the study of mass communication. Students will also receive practice in determining the appropriate choice of research method for a mass communication problem of their choosing. Three credit hours.

**MCOM 3320 Advanced Reporting**

Prerequisites: **MCOM 2320** and **MCOM 2350**. Application of principles of news writing to journalism practice; development of skills in evaluating the news, interviewing, and gathering information. Laboratory instruction and practice in objective reporting. Materials submitted as assignments are subject to dissemination through print and broadcast media and on the World Wide Web. Three credit hours.

**MCOM 3330 Photographic Journalism**

Fundamentals of news and feature photography for newspaper, magazine, and the Web. Materials submitted as assignments are subject to publication. Use of the SMC computer labs. Three credit hours.

**MCOM 3345 Studio Production**

Prerequisite: **MCOM 2300**. A practical study and application of video production with an emphasis on studio and multi-camera productions. Three credit hours.

**MCOM 3350 Introduction to News Editing**

Prerequisites: **MCOM 2320** and **MCOM 2350**. Introduction to news editing. Instruction and practice in print audio and video editing in terms of content and style. Use of computers to edit copy and images; fundamentals of design for print and online media. Three credit hours.

**MCOM 3355 History of the American Movies**

History and development of the American entertainment motion picture industry from the technological to the aesthetic and social to the economic perspectives. Includes the evolution of the American entertainment motion picture industry as it relates to audience uses and gratifications. Three credit hours.

**MCOM 3356 Movie Criticism**

Criticism of contemporary movies, concentrating on the creative elements used in the service of aesthetics and the application of scholarly and popular critical standards. Certain historical references are included. Assignments include the viewing of motion pictures at local theatres. Three credit hours.

**MCOM 3357 Film Genres**

History and development of film genres, focusing on defining different genres, observing their iconography, recognizing the conventions used and understanding their cultural impact. Also, an analysis of the Hollywood style of filmmaking and its impact on genre pictures.
MCOM 3358 Film Directors
This course will examine how film directors imprint their life, style and thematic interests on the films they make. The work of major directors from classic Hollywood, overseas and contemporary America will be studied.

MCOM 3360 Law, Policy, Ethics
Prerequisites: MCOM 2320, and MCOM 2330 (may be taken concurrently). This course will examine current legal, policy, and ethical issues affecting the broadcast, cable, print, and interactive media. Three credit hours.

MCOM 3365 Radio-Television Journalism
Prerequisites: MCOM 2300, MCOM 2320. MCOM 2350 may be taken as prerequisite or corequisite. MCOM 2300 is recommended but not required as a prerequisite. The course provides study and practice in the basic methods of writing and producing for radio and television news. The course will also evaluate audio and video streaming of material on news-related websites, and may include having student work presented online. Three credit hours.

MCOM 3366 Electronic News Gathering
Prerequisites: MCOM 2300, MCOM 2320, MCOM 2330, MCOM 3365, MCOM 3367, and MCOM 3370. MCOM 3315 is strongly recommended as a prerequisite, but is not required. Production of programs for the electronic media. Students function individually and on news teams to develop high quality on-the-air news programs, with video streaming of appropriate student work and some use of the Web for research. Three credit hours.

MCOM 3367 News Producing and Anchoring
Prerequisites: MCOM 2320, MCOM 2330, and MCOM 3365, or consent of instructor based upon documented media experience. This purpose of the course is to teach students the rudiments of radio and television newscast producing and anchoring, emphasizing TV. Students will be encouraged to develop critical thinking skills about selecting and organizing news material and graphics, writing and delivering stories, and managing, timing and promoting newscasts. Three credit hours.

MCOM 3370 Announcing and Performance
Prerequisite: MCOM 2320 or consent of instructor based upon prior media experience. Development of performance skills necessary for effective communication via the electronic media. Emphasis on announcing and visual presentation techniques, script reading, and adapting to the demands of electronic media technologies. Three credit hours.

MCOM 3370 Announcing and Performance
Prerequisite: MCOM 2320 or consent of instructor based upon prior media experience. Development of performance skills necessary for effective communication via the electronic media. Emphasis on announcing and visual presentation techniques, script reading, and adapting to the demands of electronic media technologies. Three credit hours.

MCOM 3380 Mass Communication Practicum
Prerequisite: junior standing. Work experiences in on-campus media under the direction of a School of Mass Communication professor. Periodic written and oral reports to the professor coordinating the study. Three credit hours.

MCOM 3390 Non-linear Video Editing I
Prerequisite: MCOM 2300. The basics of non-linear editing and use of Adobe Premier software. Three credit hours.

MCOM 4308 Screenwriting
Prerequisite: Mass Communication majors must have completed MCOM 2320 and MCOM 2330 with a C or greater. No prerequisites for Film minors. Learn the process, structure and skills used in writing minor picture screenplays. Three credit hours.

MCOM 4310 Media Sales
Prerequisites: MCOM 2320 and MCOM 2330. Examination of the elements, skills and strategies associated with selling broadcasts, cable, print, and interactive advertising. Three credit hours.

MCOM 4312 Management Strategies
Prerequisite: MCOM 2310 and MCOM 2330. Roles and responsibilities of media managers in broadcast, cable, print, and interactive organizations. Emphasis on coordinating work units and personnel, legal obligations, resource generation and management, public relations, and the new technologies. Dual-listed in the UALR Graduate Catalog as MCOM 5312. Three credit hours.

MCOM 4320 Non-linear Video Editing II
MCOM 2300, and MCOM 3390. A practical study of non-linear editing in the field of video production. Three credit hours.

MCOM 4330 Lighting
Prerequisite: Grade of C or greater in MCOM 2300. This course will provide students with a practical study and application of lighting techniques for video production. Students will learn studio and location lighting. Three credit hours.

MCOM 4332 Digital Audio Production
Prerequisites: MCOM 2320, MCOM 2330 and MCOM 2330 with a C or greater. Study and practice in advanced audio pre-production, production, and post-production elements used in radio, television, the Internet and other electronic media. Three credit hours.

MCOM 4340 Introduction to Digital Graphics and Animation
Prerequisites: MCOM 2300, and MCOM 3390. This course is designed to encompass a basic understanding of design elements of Adobe Photoshop and After Effects. Students will be exposed to a variety of photographic challenges geared toward creative problem solving and real-life experience in video production presentation. Three credit hours.

MCOM 4342 Cinema Techniques
Prerequisite: MCOM 2300 and MCOM 3390. A practical study and application of video production with an emphasis on movie making techniques. The class will start out making a movie together then, with skills learned, will proceed to make their own movies in groups. Three credit hours.

MCOM 4350 Design and Production
Prerequisites: junior standing and MCOM 2320 or consent of instructor. Design-making in the editing process. Principles of typography, publication design, and printing processes. Experience in the use of computers to design camera-ready materials for publication. Dual-listed in the UALR Graduate Catalog as MCOM 5350. Three credit hours.

MCOM 4352 News Media and the First Amendment
Prerequisites: junior standing. MCOM 3360 is recommended. The restrictions, obligations, and responsibilities of the news media; the law and its effect on publishing and broadcasting; relations between the law and freedoms protected by the U.S. Constitution. Dual-listed in the UALR Graduate Catalog as MCOM 5352. Three credit hours.

MCOM 4353 History of the Mass Media in America
Prerequisite: junior standing. Development of the mass media from their beginnings. Emphasis on the interaction between the media and the political, economic, technological, and social factors surrounding the media. Three credit hours.

MCOM 4354 Documentary Techniques
Prerequisite: MCOM 2300 and MCOM 3390. A practical study and application of video production with an emphasis on documentaries. The class will start out making features together. Then, with newly learned skills, will proceed to make their own documentaries in groups. Three credit hours.

MCOM 4357 Seminar in Radio-Television Journalism
Prerequisite: junior standing. Broadcast news policies; history; governmental and other forms of regulation; social implications; influence of various publics on radio-television news coverage. Dual-listed in the UALR Graduate Catalog as MCOM 5357. Three credit hours.
MCOM 4359 Feature and Magazine Journalism
Prerequisite: MCOM 3320 and MCOM 2350. Planning, researching and writing the feature article for newspapers, magazines and online publications. Emphasis on humanistic reporting and providing a context for the news through thorough research and application of this research to the article. Materials submitted as assignments are subject to publication. Dual-listed in the UALR Graduate Catalog as MCOM 5359. Three credit hours.

MCOM 4375 Journalistic Freedom and Responsibility
Prerequisite: Junior standing. Journalistic ethics and practices; professional conduct and responsibilities of the journalist in a free society. Dual-listed in the UALR Graduate Catalog as MCOM 5375. Three credit hours.

MCOM 4380 Business Strategy and Policy
Prerequisites: MGMT 1310, MGMT 3300, MGMT 3304, MGMT 3380, ECON 2312 or ECON 3355, FINC 3310, MKTG 3350, and be an officially accepted College of Business major. Integration of business concepts and techniques and their application to the development of corporate strategy and strategic planning by senior corporate executives. Includes setting objectives, developing business purposes, determining opportunities and threats, and implementing decision and control systems across functional areas. Three credit hours.

MCOM 4381 Public Relations Cases
Prerequisites: ADVT 3340, MCOM 2330, MCOM 2320, MCOM 2350; corequisite: MCOM 3315. Study of recent public relations cases involving business, industry, institutions and government. Students will also be introduced to public relations theories as they are applied in case studies and will analyze cases in terms of the component parts. Three credit hours.

MCOM 4382 Public Relations Campaigns
Prerequisites: ADVT 3340, MCOM 2320, MCOM 2350, MCOM 3315, MCOM 4380, MCOM 4381, or consent of instructor. Capstone course for the Strategic Communication sequence. A study of the planning and implementation of the public relations campaign with special emphasis on the application of public relations principles introduced in ADVT 4310. Includes student service learning project. Three credit hours.

MCOM 4384 Topics in Mass Communication
Prerequisite: Junior standing and/or consent of instructor. Advanced and specialized topics in mass communication, especially those of current interest and relevance to mass communication professionals. Possible subjects include the following: journalism, entertainment, production and design, Web and media, strategic communication, mass media etc. Classes will provide an in-depth understanding of topics chosen. Refer to the semester schedule for specific topics offered. Dual-listed in the UALR Graduate Catalog as MCOM 5384. Three credit hours.

MCOM 4385 Advanced Web Design
Prerequisites: MCOM 2320, MCOM 2350, or MCOM 2308. This course will serve as part two in a sequence of courses dealing with mass communication and the World Wide Web. A specific concentration in server communication and publishing corporate web pages, as well as using basic programming logic combined with HTML. Three credit hours.

MCOM 4388 Reporting of Public Affairs
Prerequisites: MCOM 2320, MCOM 2350, and MCOM 3320. MCOM 3315 and MCOM 3360 may be taken as prerequisites or corequisites. Class may also be taken with consent of instructor based upon demonstrable advanced media experience. Practice in gathering materials and writing in-depth stories on public affairs; emphasis on courts, police, government, education, ecology, the economy, and social issues. Materials submitted as assignments are subject to online postings. Dual-listed in the UALR Graduate Catalog as MCOM 5388. Three credit hours.

MCOM 4189, 4289, 4389 Independent Study
Prerequisites: junior standing, consent of instructor, approval of independent study proposal before registration. Individual in-depth study, research, or designated on-campus practicum related to broadcast journalism, news-editorial, public relations options, or professional and technical writing. Up to three hours may be counted toward the major. One, two, or three credit hours.

MCOM 4386 Images of Minorities in the Media
This course examines the material and ideological representations of various racial and ethnic groups in the United States as reflected in the media including both historical and contemporary depictions. Students explore theories including racial formation, otherness, and commodification among others. In this course, students learn the origins of ideological and material representations of minorities; how they are maintained in the culture and in the media; the similarities and differences in depictions among and across racial and ethnic groups; and the impact of these representations on the various minority groups and society as a whole.

MCOM 4390 Mass Communication Internship
Prerequisites: senior standing, consent of school director. Work experiences either in the commercial media or in other designated media under the direction of a mass communication professional. Periodic written and oral reports to the professor coordinating the study. Three credit hours.

MCOM 4391 Mass Communication Cooperative Education
Prerequisites: junior standing, consent of school director and director of cooperative education. Work experiences either in the commercial media under direction of professional journalists or in positions under supervision of public relations specialists. Periodic written and oral reports to the professor coordinating the study. Credit awarded for employment involving at least 20 hours per week and successful completion of specific instructional objectives that provide new learning on the job and in the major. Students who take this course may not take MCOM 4390. Three credit hours.

MCOM 4395 Producing and Directing
Prerequisites: Senior standing and consent of the instructor. Production of programs for the electronic media. Students function individually and on news teams to develop high quality electronic news and information programs to be distributed on the University’s cable television channel and the School of Mass Communication’s web sites via video streaming when appropriate. Three credit hours.
UALR’s Institute of Government offers the master of public administration degree and the graduate certificate in nonprofit management programs to prepare students for professional management and leadership positions at all levels of government and nonprofit sectors. The Institute of Government offers undergraduate public administration courses for application in poverty studies, urban studies, and political science. The department is active in these undergraduate programs: Nonprofit Leadership Studies, Shepherd Poverty Studies, and Urban Affairs. For more information about Public Administration see the UALR Graduate Catalog. For questions regarding the Nonprofit Management Program, please contact Dr. Vickie Edwards, vledwards@ualr.edu, (501) 569-8026.

Courses in Public Administration (PADM)

**PADM 3310 Policy Process**
See POLS 3310. Three credit hours.

**PADM 3331 Public Administration**
Prerequisite: POLS 1310 or junior standing. Trends and organization of public administration; fiscal and personnel management; administrative powers and responsibility. Three credit hours.

**PADM 4313 Public Personnel Administration**
Analysis of the policies, practices, and issues of public personnel administration, including recruitment and selection processes, classification and pay plans, training, career management, separation, grievances and appeals, and unionization and collective bargaining. Three credit hours.

**PADM 4341 Seminar: Comparative Public Administration**
Prerequisite: senior standing. A seminar survey of similarities and differences in bureaucratic structures and processes. Analysis of the organization, staffing, and role of administrative systems in contrasting social and cultural contexts of the Western and non-Western worlds. Dual-listed in the UALR Graduate Catalog as PADM 5341. Three credit hours.

**PADM 4353 Seminar in Budgeting**
Prerequisite: POLS 1310. The course covers budgeting theory and practice. Topics include budgeting as allocations, process games, rituals, history, and politics. It examines institutions and their roles in budgeting as well as current issues such as uncontrollability, balanced budgets, and variance budgeting. Dual-listed in the UALR Graduate Catalog as PADM 5353. Three credit hours.

Courses in Poverty Studies

**PVYS 2301 Introduction to Poverty Studies**
This course serves as an introduction to a multidisciplinary study of poverty, including emphases on causes and effects of poverty, values, moral, and legal issues related to poverty, and difficulties in breaking the cycle of poverty. Three credit hours.

**PVYS 2302 Poverty Reduction Strategies**
Prerequisite: PVYS 2301. In response to the incidence of poverty, both in urban and rural areas, this course equips the student with analytical tools that aid in the planning, design, and implementation of anti-poverty strategies. Macro and micro approaches include individual counseling and prevention tactics, policy making, continua of care, community development, and community collaboration. The course is required for Shepherd Scholars. Three credit hours.

**PVYS 3301 Service-Learning Placement I**
Prerequisite: PVYS 2301, 2302 and admission to the Shepherd Scholars program. In this intensive fieldwork course, Shepherd Scholars will be placed with an agency in either an urban or rural poverty situation where they will be integrated into the work of that organization. Successful completion requires at least four weeks (160 contact hours) and both written and oral reflection presentations. Three credit hours.

**PVYS 3302 Service-Learning Placement II**
Similar to PVYS 3301, this course offers Shepherd Scholars with an intensive fieldwork opportunity. Students will be placed with an agency in either an urban or rural poverty situation where they will be integrated into the work of that organization. Students successfully completing PVYS 3201 may continued in that placement for this course with the approval of the program director and community mentor. Successful completion requires at least four weeks (160 contact hours) and both written and oral reflection presentations. Prerequisite: PVYS 2301,2302, and 3301 and admission to the Shepherd Scholars program. Three credit hours.

**PVYS 4301 Seminar in Poverty Studies**
This capstone course is conducted as a seminar in which students play a lead role along with the instructor in discussions of readings, papers, and presentations. It is designed to challenge students to propose, research, and write a major paper on poverty and its reduction. Topics may derive from any relevant discipline and will be selected in consultation with a participating instructor who will serve as a preceptor. Three credit hours.
The mission of the UALR School of Social Work is to prepare ethical graduates who accept and appreciate diversity, who empower people and communities to meet the challenges of poverty and social and economic injustice, and who serve oppressed and vulnerable populations at the local, state, national, and international levels.

Consistent with the mission of the social work profession, our students are prepared to apply the values of social justice and self-determination to their work with individuals, groups, and communities. Empowering students to recognize the implications of race, gender, and economic hardship prepares them to more effectively deal with the complexity of the human condition. Through the application of these concepts, students develop the analytical and technical skills necessary for professional social work.

General Information

Social work is a growing, dynamic profession that offers many challenges and many rewards. The School of Social Work at the University of Arkansas at Little Rock is committed to the development of students seeking exciting careers as professional social workers. Our aim is to deliver social work education in a style that challenges students to think differently about problems faced by our most vulnerable populations. Across this country, social work professionals serve public and private agencies as invaluable resources for the less fortunate.

The Bachelor of Social Work (BSW) program is accredited by the Council on Social Work Education. We admitted our first class of students in 1997 and graduated our first class in 1999. If you’d like more information about the BSW Program, please visit our webpage at ualr.edu/bsw/. If, after reading the information about our program, you still have questions, email us at bsww@ualr.edu. In your email, please let us know if you are a current student at UALR, a transfer student, already have a bachelor’s degree in a different discipline, or are a high school student currently considering attending UALR and majoring in social work. If you are currently attending UALR, please include your T# in your correspondence with us.

Minor in Social Work

The social work minor is intended only for students who have previously been admitted to the Bachelor of Social Work (BSW) Program but did not complete their degree requirements and want to minor in social work. This minor consists of 18 credits and includes the following courses: SOWK 1301 and 15 credits from the following courses: SOWK 3302, SOWK 3303, SOWK 3304, SOWK 3313, SOWK 3314, SOWK 3322, SOWK 3331, and SOWK 3381. In order to minor in social work, students must have been admitted to the BSW Program, have successfully completed any course they wish to count towards the minor with a grade of C or above, and have a 2.5 GPA in all social work courses. It should be noted that the Council on Social Work Education, the accrediting body for social work education, does not recognize a minor in social work. Consequently, no professional privileges or practice rights will stem from the minor in social work and the students who minor in it will not graduate with the BSW degree.

Minor in Gerontology

A minor in gerontology requires 18 credit hours of gerontology, including GERO 2300, 4315, 4336, and 4346. GERO 4385 Topics Seminar may be taken twice with different topics, or GERO 4390 Directed Study may serve as one of the requirements. A pre-approved course with aging content in another discipline can be substituted for one of the topics seminars. For more information, consult the Gerontology Coordinator in the School of Social Work.
Bachelor of Social Work

General: 120 minimum total hours, including 65 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
6 hours of Social Sciences in the Core must be satisfied by PSYC 2300 and SOCI 2300, which are prerequisites for the major.
See page 25 for requirement details.

Second Language Proficiency (6 hours)
Elementary levels I and II of a second language sequence. See page 26 for details.

Major (68 hours)
Program Prerequisite (3 hours)
SOWK 1301 Introduction to Social Work

Social Work Foundation Courses (33 hours)
SOWK 3302 Cultural Diversity
SOWK 3303 Human Behavior and the Social Environment
SOWK 3313 Social Welfare Policy I
SOWK 3304 Human Behavior and the Social Environment II
SOWK 3314 Social Welfare Policy II
SOWK 3331 Practice I
SOWK 3381 Social Work Statistics
SOWK 3322 Methods of Social Work Research
SOWK 4332 Practice II
SOWK 3315 Policy Practice
SOWK 4333 Practice III

Social Work Field Courses (14 hours)
SOWK 4212 Field Seminar I
SOWK 4541 Field Experience I
SOWK 4213 Field Seminar II
SOWK 4542 Field Experience II

Other Required Courses (6 hours)
PSYC 3360 Abnormal Psychology

Upper Level Rhetoric Course
RHET 3301 Editing for Usage and Style
or RHET 3315 Persuasive Writing
or RHET 3326 Tech Writing

Upper Level Related Field Electives (12 hours)
These courses include, but are not limited to, 3000 or 4000 level courses in Gerontology, Political Science, Sociology and Anthropology, Psychology, Criminal Justice, Human Services Administration, Health Sciences, & Public Administration.

Minor (None required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Courses in Social Work

SOWK 1301 Introduction to Social Work
This course focuses on the major concepts and principles of professional social work, including: the development of social welfare; the history of social work; the knowledge, skills, and value base of social work; models of social work methods; and current social work practice applications. The course also looks at the basis of knowledge from which the theories of social justice and diversity spring and lays a foundation for social workers' professional entry into both public and private arenas. Three credit hours.

SOWK 3302 Social Work and Diversity
Prerequisites: formal admission to the social work program and completion of SOWK 1301 with a grade of “C” or above. This course focuses on the strengths and challenges faced by different groups including but not limited to gay, lesbian, and bisexual individuals; people of color; people with disabilities; religious minorities; and the elderly. Students will learn about the characteristics of culturally competent social work practice with diverse populations and the knowledge, attitudes, and skills for working with different population groups. Three credit hours.

SOWK 3303 Human Behavior in the Social Environment I
Prerequisites: formal admission to social work and SOWK 1301 with a grade of “C” or above. Part one of a two-course sequence, this course provides students with the content necessary to understand the complexities of human development and behavior. Students learn to evaluate various social environmental influences that affect human behavior and functioning as well as the ways in which the social environment can impede or promote well-being. Particular attention is paid to life span development of infancy, early childhood and adolescence as well as highlighting issues of oppression, privilege and discrimination. Three credit hours.

SOWK 3304 Human Behavior in the Social Environment II
Prerequisites: formal admission to social work and SOWK 1301 and 3303 with a grade of “C” or above. Part two of a two-course sequence, this course continues to analyze theories of the development and behavior of individuals, families, communities, groups, and organizations, as well as the interactions of these systems with and among one another in larger socio-cultural environments. Particular attention is paid to life span development of young adulthood, middle adulthood and older adulthood. Three credit hours.

SOWK 3313 Social Welfare Policy
Prerequisites: Formal admission to the social work program or human services minor and SOWK 1301 with a grade of “C” or above. Part one of a two-course sequence, this course examines policy-making in the governmental context. The process at the local, state, regional and national levels will be reviewed and service and benefits entitlements provided under these policies will be summarized. The history, organization, guiding principles and resulting programs that govern major social welfare institutions will be explored. Theories of social justice will be studied to understand the phrasing of policy claims and their assessment. Three credit hours.

SOWK 3314 Social Welfare Policy II
Prerequisite: formal admission to social work and SOWK 1301 and 3313 with a grade of “C” or above. Part two of a two-course sequence, this course explores topics such as (1) history and current structures of social welfare services, (2) the role of policy in service delivery and in social work practice, (3) attainment of individual and social well being, and (4) comparative and international social welfare. The course also emphasizes understanding of current developments in social welfare, factors affecting the structure and dynamics of social welfare policies/services as well as understanding the role of the social work profession within that framework. Additionally, models for analyzing social welfare policy are introduced, and students apply these models to past policy decisions and current issues. Three credit hours.
SOWK 3315 Policy Practice
Prerequisites: SOWK 3313, SOWK 3314, and formal admission to the social work program. Training student social workers to engage in policy practice. Oriented to the creation of the professional skills associated with policy action. Conceptualizes policy action as a series of skill areas that start with problem identification and analysis and conclude with policy proposal, action planning, and mobilization of political and public support. Three credit hours.

SOWK 3322 Methods of Social Work Research
Prerequisites: MATH 1302 or MATH 1321, and formal admission to the social work program. An overview of the approaches to and uses of research in generalist social work practice. Emphasis placed on the practice-research link with a focus on conducting practice and program evaluation within a social work agency setting. Ethical and human diversity issues are considered throughout the course. Three credit hours.

SOWK 3331 Social Work Practice I
Prerequisites: SOWK 3303, and formal admission to the social work program. This is the first course in a three-course practice sequence, introduces the student to therapeutic relationship building, interviewing, and client-system assessment. The primary objective of the sequence is to prepare students to engage in culturally-competent, family-centered practice, which incorporates a strengths perspective needed for practice with individuals, families, groups, organizations, and communities. Three credit hours.

SOWK 3381 Statistics for Social Workers
Prerequisite: SOWK 1301, formal admission to the social work program. This course is an introduction to statistics and their use in analyzing and interpreting data. The course is designed to teach students statistics applicable to social work practice and decision-making. In particular, it is an introduction to probability, descriptive statistics, and beginning inferential statistics. The course covers basic descriptive statistics and introduces the student to hypothesis testing and bivariate statistics. Students will use the knowledge of statistics learned in this course to interpret and critique statistical analyses published in journal articles. Students will also analyze real data, interpret the findings and write reports. Three credit hours.

SOWK 4212 Field Seminar I
Prerequisites: formal admission to BSW program; a “C” or better in SOWK 1301, 3303, 3304, 3313, 3314, 3302, 3331; a 2.5 cumulative GPA in all social work courses taken to date; a 2.5 overall GPA; and formal admission to the Field Experience. Corequisite: SOWK 4341/4541. Pre or corequisite: SOWK 4332. Field Seminar I is the first of a two course seminar that provides the student with the opportunity to integrate knowledge and insights developed in the classroom by exploring the field experience through the group process. The Generalist Intervention Model of engagement, assessment, planning, implementation, evaluation and termination is the basis for student learning and self-evaluation. Seminar II builds on the strengths and experience of Seminar I to further student development toward full integration of knowledge, skills and values in generalist practice. It introduces the group process, the basis and coordination of skills, establishment of values, collaboration with colleagues, and community visits provide the framework to identify as a professional social worker. Student must receive a “B” or higher to move on to graduate. Two credit hours.

SOWK 4290 Independent Study
Prerequisites: SOWK 1301, formal admission to the social work program, and consent of instructor. Advanced study and assignments in selected areas of social work. Two credit hours.

SOWK 4310 Social Gerontology
This course explores the social aspects of aging - how do older adults affect society and how does society affect older adults? The interaction of older adults with society is examined along with issues of our aging populations such as healthcare, government, and the economy. Also examined are the issues associated with our aging population and how those issues affect people of all ages. A number of current controversies associated with our changing population structure will be discussed in class. Three credit hours.

SOWK 4330 Animal Assisted Therapy
Prerequisite: junior status. Course provides an overview of the interdisciplinary field of animal-assisted therapy and the human-animal bond. Course will include observations of AAT visits to human service settings and web-enhanced classes. Three credit hours.

SOWK 4332 Social Work Practice II
Prerequisites: SOWK 3331. The second in the three-course sequence, this course builds on the foundation interviewing and client-system assessment skills by introducing students to various intervention skills to be used with individuals, groups, communities, and in family-centered practice. The focus is on generalist practice utilizing problem-solving and solution-focused techniques. Skills learned in this course are integrated with actual practice experience through the SOWK 4541 Field Experience I and SOWK 4212 Field Seminar I. Three credit hours.

SOWK 4333 Social Work Practice III
Prerequisites: SOWK 4332. The third in the three-course sequence, this course builds on the foundation interviewing and client-system assessment skills presented in Practice I and the various intervention skills to be used with individuals, groups, communities, and in family-centered practice, which were the focus of Practice II. Practice III introduces methods for terminating a client from service by focusing on final empowerment strategies and techniques for program and practice evaluation. The focus on program and practice evaluation, in correlation with social work values, will integrate research methods into the professional world of practice. Skills learned in this course will also help to prepare the student for supervisory and managerial positions within the agency arena and are integrated with actual practice experience through the SOWK 4542 Field Experience I and SOWK 4213 Field Seminar I. Three credit hours.

SOWK 4336 Social Aspects Death & Dying
Gerontology and social work seek to apply knowledge from the social sciences, medicine, and the humanities with the skills and values of the helping professions. The multidisciplinary study of death (thanatology) itself comes out of studying these different disciplines. There are many social, psychological, philosophical, and religious theories concerning the passage of death, both for ourselves and those around us. We will study many diverse contributions in the social aspects of death and dying. Three credit hours.
SOWK 4337 Adult Development and Aging
This course emphasizes the life course perspective as it looks at adult development and aging within the context of the social environment. Aspects of “successful aging” that will be examined cover growth and development from emerging adulthood to old age, and the impact that culture, gender, ethnicity, and individual differences have on these processes. Human development and aging is examined during early adulthood, middle adulthood, and late adulthood. We will study aspects of development that are common to persons at all ages across the life course, individual differences in development, and differences that characterize the separate age cohorts. Three credit hours.

SOWK 4341/4541 Field Experience I
Prerequisites: formal admission to BSW program; a “C” or better in SOWK 1301, 3303, 3304, 3313, 3314, 3302, 3331; a “B” in SOWK 4212 and 4541; a 2.5 cumulative GPA in all social work courses taken to date; a 2.5 overall GPA; and formal admission to the Field Experience. Corequisite: SOWK 4542. Pre or corequisite: SOWK 4332. Field Experience I is the first of two opportunities for the student to integrate knowledge and values acquired in the classroom into practice by observing and engaging with the client system under supervision of a social worker in a human service agency. The introduction of the student to direct practice will involve the elements of the generalist intervention model: engagement, assessment, planning, implementation, evaluation, and termination. Field Experience I provides a structured learning environment in which professional ethics, critical thinking, generalist practice, and applicable skills are explored for greater depth and application. The corequisite SOWK 4212, Field Seminar I, is offered concurrently with Field Experience I for in-depth consultation with other students and seminar instructor to allow feedback and consultation in a group process. SOWK 4541 is 240 hours in the field setting in the fall semester of the senior year for five credits. The student must receive a “B” in order to progress to Field Experience II.

SOWK 4342/4542 Field Experience II
Prerequisites: formal admission to BSW program; a “C” or better in SOWK 1301, 3303, 3304, 3313, 3314, 3302, 3331; a “B” in SOWK 4212 and 4341/4541; a 2.5 cumulative GPA in all social work courses taken to date; a 2.5 overall GPA; and formal admission to the Field Experience. Corequisite: SOWK 4342/4542. Pre or corequisite: SOWK 4333. Field Experience II is the second of two opportunities for the student to integrate knowledge developed in the classroom into practice by working directly with the client system under supervision of a social worker. Field Experience II provides a structured learning environment in which professional ethics, critical thinking, generalist practice, and applicable skills are explored for greater depth and application. The corequisite SOWK 4213, Field Seminar II, is offered concurrently with Field Experience II for in-depth consultation with other students and seminar instructor to allow feedback and consultation in a group process. SOWK 4542 is 240 hours in the field setting in the spring semester of the senior year for five credits. The student must receive a “B” in order to graduate from the social work program.

SOWK 4390 Independent Study
Prerequisites: SOWK 1301, formal admission to the social work program, and consent of instructor. Advanced study and assignments in selected areas of social work. Three credit hours.

Courses in Gerontology (GERO)

GERO 2300 Introduction to Aging and the Elderly
Prerequisites: RHET 1311 and 1312 or equivalents. SOCI 2300 or PSYC 2300 recommended. An overview of the aged as they relate to their social environment, with emphasis on the biological, psychological, and sociological aspects of aging. Three credit hours.

GERO 4310 Social Gerontology
This course explores the social aspects of aging - how do older adults affect society and how does society affect older adults? The interaction of older adults with society is examined along with many of our social institutions such as family, healthcare, government, and the economy. Also examined are the issues associated with our aging population and how those issues affect people of all ages. A number of current controversies associated with our changing population structure will be discussed in class. Three credit hours.

GERO 4315 Interdisciplinary Health Care of the Elderly
Designed to increase clinical knowledge, skills, and attitudes of students in the health professions and other fields related to health promotion and maintenance for the elderly. In-depth exploration of the multiple factors associated with the physiological process of aging, psychosocial developmental tasks, and typical environments of aged persons. Dual-listed in the UALR Graduate Catalog as GERO 5315. Three credit hours.

GERO 4336 Social Aspects Death & Dying
Gerontology and social work seek to apply knowledge from the social sciences, medicine, and the humanities with the skills and values of the helping professions. The multidisciplinary study of death (thanatology) itself comes out of studying these different disciplines. There are many social, psychological, philosophical, and religious theories concerning the passage of death—for both ourselves and those around us. We will study many diverse contributions in the social aspects of death and dying. Three credit hours.

GERO 4337 Adult Development and Aging
This course emphasizes the life course perspective as it looks at adult development and aging within the context of the social environment. Aspects of “successful aging” that will be examined cover growth and development from emerging adulthood to old age, and the impact that culture, gender, ethnicity, and individual differences have on these processes. Human development and aging is examined during early adulthood, middle adulthood, and late adulthood. We will study aspects of development that are common to persons at all ages across the life course, individual differences in development, and differences that characterize the separate age cohorts. Three credit hours.

GERO 4346 Family in Late Life
Prerequisite: GERO 2300. Family life of the elderly; including late-life marital relationships; widowhood and living alone; relations with children, grandchildren, siblings, and other kin; alternative and innovative lifestyles; family neglect and abuse of the elderly; and demographic and structural changes in the family and society that affect these matters. Exploration of dynamic and therapeutic models of family problems and process to provide a foundation of concepts for later training in counseling families with elderly members. The family as a natural support system for the elderly, along with the potential and limitations of such a system in a context of community support networks, will be core concepts. Dual-listed in the UALR Graduate Catalog as GERO 5346. Three credit hours.

GERO 4385 Topics Seminar
Prerequisite: consent of instructor. Special topics of critical and current interest to those interested and involved in the aging field. Topics range from Social Security, legislation affecting the elderly, and targeted programs to clinical and research developments in aging and life-span developmental issues. May be taken more than once under different topics. Dual-listed in the UALR Graduate Catalog as GERO 5385. Three credit hours.

GERO 4190, 4290, 4390 Directed Study
Prerequisites: junior or senior standing; GERO 2300 or consent of instructor. Study directed by a faculty member in a content area or competency relevant to research on aging or practical matters in connection with the elderly. May include field placement at an agency working with or for the elderly. Forty-five clock hours of study or of work on-site (in field placements) per credit hour is presumed. One, two, or three credit hours.
The mission of the Department of Speech Communication is to foster the co-creation of better social worlds through positive communication.

**Core Course in Speech Communication**

The department offers SPCH 1300, which is a part of the UALR core curriculum. The course helps fulfill the written and oral literacy requirement. Students who feel they already possess the competencies developed in SPCH 1300 may attempt to complete the course requirement by testing out.

For information about test dates, required fees, and test content, students should contact the Office of Testing Services and Student Life Research. A student who successfully tests out will receive three credit hours towards graduation and a grade of Credit (CR). SPCH 1300 is a prerequisite for all other courses in the department.

**Major in Speech Communication**

The curriculum in the major is designed to support the learning needs of students with a desire to communicate more effectively in their personal and professional lives. Effective communication skills and knowledge are highly sought after by employers. Our students work in for profit, non profit, health care, and governmental contexts.

The major requires 34 credit hours beyond Speech Communication 1300, including Speech Communication 2310, 2311, 3320, 4300, 4110; three courses chosen from 3316, 3322, 3323, 3340, 4321; four courses chosen from 3300, 3315, 3350, 4310, 4311, 4312, 4313, 4350.

Recommended minors for this curriculum are psychology, management, journalism, professional and technical writing, human services, and general business. Potential majors may secure an advisor by contacting the department. A grade of C or greater must be attained to fulfill a course requirement for the major.

Admission requirements include successful completion of at least 12 semester hours with a GPA of at least 2.00, RHET 1311, and SPCH 1300 with a minimum grade of C.

**Minor in Speech Communication**

The minor in speech communication requires 18 hours beyond SPCH 1300, including SPCH 2310, 3320, and 12 upper-level hours in speech communication.

**Minor in Professional Communication**

The minor in professional communication is designed to enhance communication skills necessary for success in a student’s chosen career. The minor requires 18 hours beyond SPCH 1300, including SPCH 2310, 3320, nine hours from 3316, 3322, 3323, 3330, 3340, and 4311 and 3 additional upper-level hours in speech communication.

**Graduate Program**

The department offers a master’s degree in applied communication studies. See the UALR Graduate Catalog for details.

**Speech Communication Education**

Students seeking secondary teacher licensure in speech communication should contact an advisor in the department. See “Secondary Teacher Licensure.”
Bachelor of Arts in Speech Communications

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit.
(See page 36 for details)

**Core (44 hours)**
See page 25 for requirement details.

**Second Language Proficiency (0-9 hours)**
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (34 hours)**

**Foundational Courses (9 hours)**
- SPCH 2310 Human Communication Concepts
- SPCH 2311 Intro to Communication Research
- SPCH 3320 Advanced Public Speaking

**Emphasis on Professional Communication (Select 9 hours)**
- SPCH 3316 Interviewing
- SPCH 3322 Small Group Communication
- SPCH 3323 Conflict Management
- SPCH 3330 Professional Communication
- SPCH 3340 Communication Ethics
- SPCH 4311 Organizational Communication

**Capstone (4 hours)**
- SPCH 4300 Senior Seminar
- SPCH 4110 Senior Presentation

**Electives (Select 12 hours)**
- SPCH 3300 Interpersonal Communication
- SPCH 3315 Gender Communication
- SPCH 3350 Nonverbal Communication
- SPCH 4312 Intercultural Communication
- SPCH 4313 Seminar: Studies in Communication
- SPCH 4324 Organizational Communication II
- SPCH 4323 Family Communication
- SPCH 4100 Independent Study
- SPCH 4201 Independent Study
- SPCH 4314 Internship
- SPCH 4315 Cooperative Education in Speech Communication

**Minor (typical minor requires 18)**

**Unrestricted General Electives**
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

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**Courses in Speech Communication**

**SPCH 1300 Speech Communication**
This course helps students effectively deliver an oral presentation to an adult audience; listen to and critique objectively the oral presentations of others; effectively participate in one-to-one communication experiences using techniques of active listening, conflict resolution, and information gathering; organize, participate in, and lead small groups as they problem-solve; and recognize and use effective oral language as a tool of sound reasoning. Student performance is emphasized along with lecture, discussion, and self-instructional study center exercises. Students learn through writing, reading, discussing, listening, and participating in critical thinking and problem-solving activities. Three credit hours. (ACTS Course Number SPCH 1003)

**SPCH 2310 Human Communication Concepts**
Prerequisite: SPCH 1300. This course provides an overview to the study of human communication. A number of contemporary approaches to human interaction in interpersonal, small group, organizational, and intercultural situations are reviewed. The focus is on learning the basic terminology and theoretical concepts associated with the general study of communication. Three credit hours.

**SPCH 2311 Introduction to Communication Research**
Prepares students to understand the research and application focus of a major in communication. Topics include asking good research questions, the role of case studies in communication research, and understanding basic research principles. The focus of this course is to enable students to apply theory in meaningful ways to better understand real life situations. Three credit hours.

**SPCH 3300 Interpersonal Communication**
Prerequisite: SPCH 1300. Enhances the student’s ability to understand and participate in effective interpersonal communication. Topics include verbal and nonverbal communication, relational management, self-concept, and relationship roles. Focus on using major interpersonal theories and concepts, as well as in-class activities to develop a heightened awareness of relationship issues, as well as interpersonal communication competence. Three credit hours.

**SPCH 3315 Gender Communication**
An examination of gender as it influences verbal and nonverbal interaction between men and women. Topics include the ways communication in families, schools, media, and society creates and perpetuates gender roles, and how socially-created gender differences in public and private setting affect success, satisfaction, and self-esteem. Focus on using major gender communication theories and concepts to develop a heightened awareness of gender issues that relate to human interaction. Three credit hours.

**SPCH 3316 Interviewing**
Prerequisite: SPCH 1300. This course develops the student’s ability to effectively prepare for and participate in a variety of interview situations. Topics include impression management, rapport building, interview organization, effective questions and answers, and effective listening. Types of interviews covered include employment, probing, survey, persuasive, selection, performance, counseling, and health care. The focus is on using in-class activities to develop effective interviewing skills. Three credit hours.

**SPCH 3320 Advanced Public Speaking**
Prerequisite: SPCH 1300. This course develops the student’s ability to effectively prepare and deliver a speech. Topics include audience analysis, critical thinking and listening; the use of supporting materials and visual aids, and the development of presentation skills. The focus is on using in-class activities to develop effective research, organization, and presentation skills. Three credit hours.

**SPCH 3322 Small Group Communication**
Prerequisite: SPCH 1300. This course develops the student’s ability to effectively communicate in small groups or teams. Topics include group formation, group leadership, effective listening in groups, techniques of problem solving, group norms, effective group participation, and management of group conflict. The focus is on using in-class and group activities to develop effective small-group interaction skills and group presentation skills. Three credit hours.
SPCH 3323 Conflict Management  
Prerequisite: SPCH 1300. Development of the student’s ability to effectively manage conflict in organizations, groups, and personal relationships. Topics include theories, styles, patterns, and systems of conflict as well as conflict management techniques of negotiation, and mediation. The focus is using in-class activities to better understand the factor and dynamics of conflict resolution and develop effective conflict management skills. Three credit hours.

SPCH 3330 Professional Communication  
Prerequisite: SPCH 1300. Development of the student’s ability to effectively interact in professional business situations. Topics include listening, coaching/mentoring, dealing with difficult people, delegation, formal and informal communication, civility, and customer service. Focus on using in-class activities to develop effective professional communication skills. Three credit hours.

SPCH 3340 Communication Ethics for the Professional  
Prerequisite: SPCH 1300. This course explores the common ethical questions encountered in business and professional settings. Topics include whistle blowing, employee rights, public relations, ethical codes, sexual harassment, leadership ethics, and organizational legitimacy. The focus is on illustrating the importance of ethics to the professional through practical applications of communication-based principles. Three credit hours.

SPCH 3350 Nonverbal Communication  
Prerequisite: SPCH 1300. Examination of codes of nonverbal communication within personal, interpersonal, and professional contexts. Topics include the functional perspective of nonverbal communication; factor of appearance, body language, space, touch, paralanguage, artifacts, and time; interpersonal attractiveness; credibility; dominance; and impression management. Focus on using major nonverbal communication theories and concepts to develop a heightened awareness of the role of non-verbal in human interaction. Three credit hours.

SPCH 4110 Senior Presentation  
Prerequisite: SPCH 4300. Development and presentation of a major work done in the senior seminar. Part of the speech communication major capstone sequence. One credit hour.

SPCH 4100, 4201 Independent Study  
Prerequisite: SPCH 1300. These courses provide students with an opportunity to read and conduct research in a selected area of speech communication studies. Projects and papers must be approved by the instructor prior to registration. One or two credit hours.

SPCH 4300 Senior Seminar  
Prerequisites: SPCH 2310, Speech 2310, and 15 hours in speech communication. Application of human communication theory to real situations. Topics include researching the communication literature, organizing arguments, analyzing communication events, and deriving practical implications from communication theory. Focus on applying a specific communication theory to a specific real-life situation. Part of the speech communication major capstone sequence. Three credit hours.

SPCH 4310 Investigations into Communication Research  
Prerequisite: SPCH 1300 and 4300. Examination of the applied role of communication research methods in a variety of contemporary organizations. Topics include the research process, both quantitative and qualitative research approaches, as well as questions of research ethics. Focus on identifying the practical applications of research methods for organizational members. Dual-listed in the ULAR Graduate Catalog as SPCH 5310. Three credit hours.

SPCH 4311 Organizational Communication  
Prerequisite: SPCH 2310. Examination of organizational communication theories, communicative implications of historical and modern management theories, as well as special interest topics. Major topics include cultural and critical approaches to organizational communication, classical management and human relations theory, and communication effectiveness. Special topics may include teams in organizations, diversity, organizational politics, leadership and change. Focus on applying organizational communication theories and concepts to understand others better and to control one’s own communication in organizations. Dual-listed in the ULAR Graduate Catalog as SPCH 5311. Three credit hours.

SPCH 4312 Intercultural Communication  
Prerequisites: SPCH 1300. Examination of culture as it influences human interaction in a wide range of contexts, including work, medical, interpersonal and political. Topics include culture shock, language, nonverbal, intercultural conflict, and culture and the media. Focus on using major intercultural communication theories and concepts, as well as in class activities to develop a heightened awareness of intercultural issues, as well as intercultural communication competence. Dual-listed in the ULAR Graduate Catalog as SPCH 5312. Three credit hours.

SPCH 4313 Seminar: Topics in Communication  
Prerequisites: SPCH 2310. Investigation of timely communication theories, skills, and practices. Topics selected from a variety of theoretical or practical perspectives. Focus is on an in-depth treatment of a content area not typically represented in other courses in the major. May be repeated for credit. Dual-listed in the ULAR Graduate Catalog as SPCH 5313. Three credit hours.

SPCH 4314 Internship  
Prerequisites: SPCH1300. An opportunity to apply communication concepts and skills in a professional setting within the department. Interns gain experience working in the Speech Communication Interactive Learning Center, assisting in its operation primarily with students in the basic course. Focus is on experiencing and analyzing communication in real-world situations. Contact the department’s basic course coordinator before enrolling in this course. Three credit hours.

SPCH 4315 Cooperative Education in Speech Communication  
Prerequisite: SPCH 1300. An opportunity to apply communication concepts and skills in a professional setting outside the department. Focus us on experiencing and analyzing communication in real-world situations. Contact the department’s coordinator of cooperative education before enrolling in this course. Three credit hours.

SPCH 4323 Family Communication  
Prerequisite: SPCH 1300. Examination of long-term relationships within a family context from a speech communication perspective, primarily examining behaviors that occur in a functional family. Topics include family rules and roles, conflict styles, power, and decision-making. Focus is on using major family communication theories and concepts to help the student analyze the communication system of a family and identify communication patterns, problems, and dilemmas in the families. Three credit hours.

SPCH 4324 Organizational Communication II  
Prerequisite: SPCH 1300. Special topics in organizational communication including but not limited to organizational identification, risk and issue management, organizational change, or critical approaches to organizational communication. Focus on giving students an in-depth understanding of a specialized aspect of organizational communication. Dual-listed in the ULAR Graduate Catalog as SPCH 5324. Three credit hours.

SPCH 4350 Effective Crisis Communication  
This course investigates and analyzes instances of effective and ineffective crisis communication. Students will examine the internal organizational processes and the larger environment within which various organizations exist focusing on issues such as stakeholders, legal environments, and the larger social and cultural contexts. Three credit hours.

SPCH 4357 Communicating with Difference  
This course explores communication and difference in such areas as race and ethnicity, social class, age, sexual orientation and disability. Through applying communication theories and ideas to our experiences in each of the targeted areas, we can emerge with tools to manage communication across lines of difference and create more positive social worlds. Dual-listed in the ULAR Graduate Catalog as SPCH 5357. Three credit hours.
Interim Dean:  
Ann B. Bain, Professor

Associate Dean:  
Thomas J. Lynch, Professor

Associate Dean for Research & Graduate Studies:  
Haydar Al-Shukri, Professor

Assistant to the Dean:  
Laura L. Beck

The College of Science (COS) provides instruction and research in many fields of science, mathematics, health science and nursing. Its objectives include enhancing educational opportunities for undergraduate and graduate students, improving science and mathematics education in Arkansas, expanding research opportunities for faculty and students, and strengthening its many partnerships with schools, corporations and government to improve the economic strength of our region.

COS provides its majors with appropriate course content designed to develop the attitudes and skills necessary for careers in many fields of science, mathematics, health science, and nursing needed to meet the highly technical demands of today’s society. COS graduate programs provide advanced training and expertise for anyone who expects to pursue a career in one of these fields. In addition, many course offerings within COS are required to fulfill the general education core requirements and for other majors throughout the University.

General Information
The curriculum of each department is designed to attain these objectives. Introductory courses in astronomy, biology, chemistry, geology, health, human performance & sport management, mathematics and statistics, and physics are designed to meet the needs of all college students. Advanced courses are available in each field of study, arranged in scope and sequence, that lead to increased competency and specialization in these fields. Graduates of COS programs are capable of immediately seeking employment or pursuing an advanced degree through graduate education.

An associate degree is offered in nursing. Baccalaureate degrees are offered with majors in biology, chemistry, environmental health sciences, geology, health professions, human performance & sport management, mathematics, nursing and physics. Minors are offered in the aforementioned areas as well as in astronomy and statistics. Pre-professional curricula opportunities are also available within the college. Pre-professional curricula opportunities include but are not limited to dentistry, medicine, nursing, pharmacy, physical therapy physician assistant and veterinary medicine. In addition, opportunities for study in marine science are provided through UALR’s affiliation with the Gulf Coast Research Laboratory located in Ocean Springs, Mississippi.

Please see the UALR Graduate Catalog for graduate coursework leading to master’s degrees in biology, chemistry, health, human performance & sport management, integrated science, mathematics, and applied physics, and for information about the doctoral programs available through applied science and bioinformatics.

Most COS departments offer honors track options for highly motivated and well-prepared students. Specific requirements are defined by each department. Please review the departmental descriptions on the following pages of this catalog and/or contact each respective department chairperson for details.

COS partners with the College of Health Related Professions (CHRP) of the University of Arkansas for Medical Sciences (UAMS) in providing the necessary pre-professional curricula for many of the CHRP programs. These programs are coordinated between both institutions and include all courses needed by students in the health-related professions. Many of the prerequisite courses for CHRP programs are listed in this catalog. Prospective students are expected to read the latest CHRP catalog or visit the website of their intended program to obtain the latest information on prerequisite requirements.

COS has several scholarships available in the various program areas. For more information contact the departmental offices or Karin Bara in the Office of Development.

Scholarships
COS has several scholarships available in the various program areas. For more information contact related departmental offices. Please note: Stephanie Conrad oversees UALR Private Scholarships. She may be contacted at (501) 683-7319 or you may email privatescholarships@ualr.edu for more information.

Students applying to a degree program in COS must meet the admissions requirements of the department offering the degree. Each department’s section in this catalog identifies its specific admissions criteria.

Pre-Admit Status
Students who do not meet admission requirements for a requested major may be assigned a “pre-admit” status. Those students will be advised by the Education Counselor in the Dean’s office until admission requirements are met. If students do not make academic progress in meeting admission requirements, the Education Counselor will provide assistance in determining a more suitable major.

Pre-professional Studies
COS offers pre-professional curricula for students interested in professional areas requiring a background in science and/or technology as well as in the liberal arts. The pre-medical and pre-health advisors and the college’s Premedical Advisory Committee advise students preparing to apply for entrance into such programs. Applications must be submitted approximately one year before the student enters a professional school. Thus, students should obtain information and advice about their intended programs of study as early as possible.
Prospective students should be aware of the Arkansas Health Education Grant Program (ARHEG). The ARHEG provides assistance to students seeking professional training in dentistry, optometry, veterinary medicine, osteopathic medicine, podiatric medicine and chiropractic medicine to allow them to attend out-of-state institutions. Students are encouraged to visit with ARHEG to determine if they meet the eligibility requirements and inquire about the availability of funding for that particular year.

**Pre-Medical and Pre-Dental**

Students are required to meet with the Pre-Med Advisor (Dr. Greg Barnes, FH 404) early in their academic career. Students are also required to meet with Dr. Barnes within the first two weeks of school the fall semester in which they are applying to medical or dental school. The following course sequences meet the entrance requirements of most medical or dental schools. Students should contact the medical or dental school of their choice for specific entrance requirements.

- BH 1401 Science of Biology
- BIOL 2403 Zoology
- BIOL 3300 Genetics
- CHEM 1402 General Chemistry I
- CHEM 1403 General Chemistry II
- CHEM 3350 General Organic Chemistry I
- CHEM 3150 Organic Chemistry Laboratory I
- CHEM 3351 General Organic Chemistry II
- CHEM 3151 Organic Chemistry Laboratory II
- PHYS 1121 Elementary Physics I Laboratory
- PHYS 1121 Elementary Physics I
- PHYS 1321 Elementary Physics I Laboratory
- PHYS 1322 Elementary Physics II
- PHYS 1122 Elementary Physics II Laboratory

These are the minimum science courses required and will prepare the student for the Medical College Admissions Test (MCAT). Some medical or dental schools may require or recommend additional courses. The College of Medicine of the University of Arkansas for Medical Sciences requires the following courses for admission: genetics, two semesters each of biology, general chemistry, organic chemistry, mathematics (or through Calculus I), and physics; and English. UAMS DOES NOT ALLOW FOR THESE COURSES TO BE TAKEN ONLINE. Students considering entrance at other medical schools should verify that specific program’s entrance requirements.

**Audiology and Speech Pathology**

Please see the undergraduate and graduate curriculum for audiology and speech pathology in the College of Professional Studies.

**Chiropractic**

A candidate must have completed at least 90 credit hours leading to a baccalaureate degree, including laboratory courses in biology, chemistry, and physics. A grade point of 2.25 or greater is required, and no more than 20 hours may be acquired through CLEP or challenge examinations. Only non-science courses may be completed through credit by examination. The Council on Chiropractic Education, through its accrediting agency, requires the pre-professional curriculum to include six hours of English, eight hours of biology with a laboratory, eight hours of inorganic chemistry with a laboratory, eight hours of organic chemistry with a laboratory, eight hours of physics with a laboratory, three hours of general psychology, three hours of sociology, 24 total physical sciences hours, and 24 total hours in the humanities or social sciences. Additional course requirements vary with each chiropractic program. The student should obtain specific information from the school of his or her choice.

**Cytotechnology**

This program is offered through the College of Health Related Professions at the University of Arkansas for Medical Sciences. To be admitted, students must have completed a minimum of 84 semester credits, at least five of which must be upper-level (junior/senior) from an accredited college or university. The required courses include:

- English Composition (6 hours)
- College Algebra (3 hours)
- Biology or Zoology (20 hours)
- Fundamental Chemistry (8 hours)
- Fine Arts (3 hours)
- History of Civilization or World History (6 hours)
- Humanities (3 hours)
- U.S. History or American Government (3 hours)
- Social Sciences (6 hours)
- Speech Communication (3 hours)
- Electives (24 hours)

**Dental Hygiene**

Dental Hygiene offers both an Associate and a Bachelor’s degree. Students should visit the website uams.edu/chrp, for specific requirements of each degree program. Students must have completed at least 39 credit hours from an accredited college or university to be admitted to the dental hygiene program in the College of Health Related Professions at the University of Arkansas for Medical Sciences. The required courses include:

- Microbiology (4 hours)
- College Algebra or higher mathematics (3 hours)
- Computer Fundamentals/Applications (3 hours)
- Fine Arts (3 hours)
- General Psychology (3 hours)
- History of Civilization (6 hours)
- Humanities (3 hours)
- Introduction to Sociology (3 hours)
- Speech Communication (3 hours)
- English Composition (6 hours)
- U.S. History or American Government (3 hours)

**Diagnostic Medical Sonography**

This program is offered through the College of Health Related Professions at the University of Arkansas for Medical Sciences. To be admitted, students must have completed a minimum of 52 credit hours from an accredited college or university.

The required courses include:

- English Composition (6 hours)
- Human Anatomy and Physiology (8 hours)
- Introductory Physics (4 hours)
- Speech Communication (3 hours)
- College Algebra (3 hours)
- U.S. History or National Government (3 hours)
- History of Civilization (6 hours)
- Introduction to Sociology (3 hours)
- General Psychology (3 hours)
- Fine Arts (3 hours)
- Humanities (3 hours)
- Computer fundamentals/applications (3 hours)
- Electives (6 hours)

**Emergency Medical Sciences**

Emergency Medical Sciences offers an Associates degree and a Certificate in Emergency Medical Sciences. It also offers an intensive Six-Month Paramedic Program. Please contact the CHRP Department for specific details about the Paramedic Program.
Health Information Management
This program is offered through CHRP at UAMS. To be admitted, students must have graduated from high school. Graduating high school students may apply to the program. There are no prerequisites. Successful applicants should be computer literate and know how to use word processing and spreadsheets. While there are no prerequisite courses, students must complete 35 credit hours of general education courses plus 3 credit hours of computer fundamentals; the latter must be taken within seven years of admission into the program.

Medical Technology
The Medical Technology program is offered through CHRP at UAMS and accepts students with a minimum of 67 credit hours. The pre-medical technology course work must include:
- College Algebra or higher math (3 hours)
- General Chemistry (8 hours)
- General Biology (BIOL 1401, 2403) (8 hours)
- Microbiology (4 hours)
- Anatomy and Physiology (4 hours)
- English Composition (6 hours)
- Speech Communication (3 hours)
- Fine Arts (3 hours)
- History of Civilization (6 hours)
- U.S. History or American Government (3 hours)
- Social Science (6 hours)
- Humanities (3 hours)
- Biological Science Electives (6 hours)
- Anatomy and Physiology (8 hours)
- Microbiology (4 hours)
- Elementary Physics (4 hours)
- College Algebra or higher math (3 hours)
- Chemistry (3 hours)

Department of Imaging and Radiation Sciences

Nuclear Medicine Imaging Sciences Program
This program is offered through CHRP at UAMS. To be admitted, students must have completed a minimum of 84 credit hours from an accredited college or university, 6 credit hours of which must be junior/senior level. The required pre-professional courses include:
- Human Anatomy and Physiology (8 hours)
- General Physics I and II (8 hours)
- General Chemistry (8 hours)
- Biological Sciences or Microbiology (4 hours)
- Statistics (3 hours)
- College Algebra (3 hours)
- Speech Communication (3 hours)
- English Composition (6 hours)
- History of Civilization (6 hours)
- Humanities (3 hours)
- U.S. History or American Government (3 hours)
- Fine Arts (3 hours)
- Social Sciences (6 hours)
- Computer fundamentals / Applications (3 hours)
- Electives (12 hours)

Department of Imaging and Radiation Sciences

Optometry
Most schools and colleges of optometry require certain courses prior to admission. These courses include:
- General Biology and Zoology (8 hours)
- General Chemistry (8 hours)
- Organic Chemistry (8 hours)
- English (6 hours)
- Mathematics (including differential calculus) (6-9 hours)
- Microbiology (4 hours)
- Psychology (3 hours)
- Elementary Physics (8 hours)
Additional course requirements vary with each optometry program. The student should obtain the specific information from the school of his or her choice. Science courses taken at UALR should be those designated for pre-professional students and must include laboratory experience. Brief survey courses in the sciences will not prepare a student for an optometry school.

**Physical Therapy**

There are physical therapy programs available at the University of Central Arkansas (UCA) and Arkansas State University (ASU); Both programs are graduate level and require a baccalaureate degree for admission plus specific course requirements. UCA’s program is a doctoral program and ASU’s is a master’s program. Students interested in either program should request admissions materials directly from the appropriate institution. Students should also seek advisement while attending UALR from an advisor in the Department of Biology or the dean’s office in the College of Science.

**Pre-Pharmacy**

This two-year, 69-hour pre-pharmacy curriculum meets the specific entrance requirements of the University of Arkansas College of Pharmacy located on the UAMS campus. Students planning to enter other schools of pharmacy are urged to obtain a copy of the entrance requirements from the school of their choice early in their freshman year and coordinate those requirements with courses taken at UALR. For advising purposes, the pre-pharmacy students should declare Chemistry BA or BS degree or Biology BS as major. The UALR pre-pharmacy curriculum assumes that the student is prepared to enroll in MATH 1302 and CHEM 1402. If the student is deficient in these areas, an additional semester or summer school may be necessary.

The UALR pre-pharmacy curriculum is organized by subject areas, semester hours, and courses. Some of the subject areas allow for choices among courses. In the freshman year the student should fulfill the mathematics requirement, at least six hours of the English/communications requirement, the general chemistry and biology requirements, the economics requirement, and one or two humanities electives. In the sophomore year, the student should satisfy the physics, organic chemistry, and critical thinking requirements, together with the remaining required communication course and humanities electives.

No course can be used to satisfy the requirements in more than one area. No more than eight semester hours of CLEP, AP credit, or credit by examination for core requirements that appear on the official transcript will be accepted to meet the pre-pharmacy requirements. For non-core requirements, no more than 12 semester hours of CLEP, AP credit, or credit by examination that appear on the official transcript will be accepted to meet the pre-pharmacy requirement will be accepted. Note that UAMS pharmacy does not accept on-line courses or laboratory courses. Courses should be taken in a face-to-face format. The humanities elective requirement cannot be met by developmental education courses or courses in the following areas: health, physical education, business, science, military science, education, computer courses, agriculture, studio courses in art, music, or theater. All chemistry and biology courses must be courses for majors in that field. Physics courses do not have to be calculus-based.

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**Pharmacy Suggested Curriculum (69 hours)**

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<thead>
<tr>
<th>Mathematics (3-5 hours)</th>
<th>Economics (3 hours)</th>
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<tbody>
<tr>
<td>MATH 1451 Calculus I or MATH 1311 Applied Calculus I</td>
<td>ECON 2322 Principles of Microeconomics or ECON 2323 Principles of Macroeconomics or ECON 2301 Survey of Economics or ACCT 1310 Introduction to Accounting and Taxation or ACCT 2310 Principles of Accounting I</td>
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<tr>
<td>ENGLISH/COMMUNICATION (9 hours)</td>
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<td>RHET 1311 Composition I</td>
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<td>RHET 1312 Composition II</td>
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<td>ENGL 2335 Introduction to Literature or RHET 2312 Advanced Composition or other, higher course</td>
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<td>SPCH 1300 Speech Communication</td>
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<td>CHEMISTRY (16 hours)</td>
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<td>CHEM 1402 General Chemistry I</td>
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<td>CHEM 3350 General Organic Chemistry I or CHEM 3351 Organic Chemistry Laboratory I</td>
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<td>CHEM 3151 Organic Chemistry Laboratory I</td>
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<td>BIOLOGY (12 hours)</td>
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<td>BIOL 1401 Science of Biology</td>
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<td>BIOL 2401 Microbiology or BIOL 4406 Pathogenic Microbiology</td>
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<td>BIOL 2403 Zoology</td>
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<td>PHYSICS (4 hours)</td>
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<td>PHYS 1321 Elementary Physics I and PHYS 1121 Elementary Physics I Laboratory</td>
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<td>RECOMMENDED ELECTIVES (9 hours)</td>
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<td>Electroencephalography and Stereotaxic Surgery</td>
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<td>Neuroanatomy and Physiology</td>
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<td>Pharmacology</td>
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**Respiratory Care**

This program is offered through CHRP at UAMS. Both an associate of science and a bachelor of science degree are available. The bachelor of science degree may be completed in either Little Rock or Texarkana. To be admitted to the bachelor of science program, students must have completed a minimum of 66 credit hours from an accredited college or university. The required pre-professional courses include:

- English Composition (6 hours)
- College Algebra (3 hours)
- Human Anatomy and Physiology (8 hours)
- Chemistry (4 hours)
- Physics (4 hours)
- Microbiology (4 hours)
- Speech Communication (3 hours)
- U.S. History or American Government (3 hours)
- Computer Fundamentals/Applications (3 hours)
- General Psychology (3 hours)
- Introduction to Sociology (3 hours)
- History of Civilization (6 hours)
- Humanities (3 hours)
- Fine Arts (3 hours)
- Electives (6 hours)
Surgical Technology

This program is offered through CHRP at UAMS Associate of Science Degree.

The following 34-35 semester credits are required from a regionally accredited college or university and must fulfill all College of Health Related Professions requirements regarding acceptance of transfer credit:

- Human Anatomy and Physiology (8 hours)
- Microbiology (4 hours)
- Computer Fundamentals (3 hours)
- College Algebra or higher math (3 hours)
- English Composition (6 hours)
- Speech Communication (3 hours)
- U.S. History or American Government (3 hours)
- Introduction to Sociology (3 hours)
- General Psychology (3 hours)
- Electives (5 hours)

For specific details on the time requirement to complete courses for the associate degree, contact the chairperson of the Department of Surgical Technology at UAMS.

Veterinary Medicine

Admission requirements to colleges of veterinary medicine are similar to those listed for medicine. However, admission requirements do vary. Students interested in veterinary programs should contact the college of their choice and identify specific requirements early in their undergraduate studies.

UALRTeach

This innovative teacher preparation program offers students seeking math or science degrees the opportunity to also earn a teaching license. Students receive early field experience and learn from mentor teachers while still pursuing their core degree. UALRTeach allows students to explore teaching as a career at no cost. Both of the one-credit courses below are available to UALR students who are thinking of majoring in science or math.

UALRTeach classes begin in the fall, SCED/IGSC 1101 Step 1: Inquiry Teaching FYC. The class focuses on hands-on and inquiry-based lessons. SCED/IGSC 1102 Step 2: Inquiry Lesson Design is offered in the spring. Students will continue developing lesson-planning skills learned in Step 1 but also become familiar with exemplary middle school science curricula.

SCED/IGSC 1101 Step 1: Inquiry Teaching FYC

An introduction to the theory and practice necessary to design and deliver quality inquiry-based science and mathematics instruction that provides the scaffold for the early field experience. In this one hour credit course, the UALRTeach instructor or master teacher and the elementary school mentor teacher emphasize both inquiry and classroom management techniques. Step 1 invites students to explore teaching as a career. With the guidance of the instructor, in Step 1, students teach science or math lessons in upper elementary classrooms to obtain firsthand experience with planning and implementing inquiry-based curriculum. Master teachers teach Step 1, so students have direct access to accomplished teachers holding certificates who love teaching and who believe that teaching is a rewarding career choice. Local public school elementary classrooms provide the future teachers with a first taste of teaching in a supportive, diverse environment. Students shall be required to submit to a criminal background check.

SCED/IGSC 1102 Step 2: Inquiry Lesson Design

Prerequisite: SCED/IGSC 1101. This course (Step 2) continues the exploration of teaching careers in a middle school environment that began in SCED/IGSC 1101 (Step 1). In this one hour credit course, students observe a lesson taught by a middle school mentor teacher, and then plan and teach three inquiry-based middle school lessons with a partner. Students build on and practice lesson design skills developed in the Step 1 course while also becoming familiar with science or mathematics curricula for the middle school setting. Students demonstrate their own content knowledge in developing the lesson plans. As a result of their classroom experiences, students reflect on the observation and their teaching. At the end of the Step 2 experience, students are generally ready to make a decision about whether they want to pursue a pathway to teacher certification.

Course in Integrated Science

IGSC 4401 Integrated Science Methods

Prerequisite: 16 credit hours of science courses. Lecture, laboratory, and field methods stress the learning of science as active, integrated, constructive processes involving experimentation, investigation, communication, reasoning, and problem solving as applied to life, earth, and physical systems. Three hours lecture and two hours laboratory sessions are held each week.

Departments/Programs

Department of Applied Science

Department of Biology
- Bachelor of Science in Biology
- Bachelor of Science in Environmental Health Sciences

Department of Chemistry
- Bachelor of Arts in Chemistry
- Bachelor of Science in Chemistry

Department of Earth Sciences
- Bachelor of Science in Geology

Department of Health, Human Performance & Sport Management
- Bachelor of Science in Health, Human Performance and Sport Management: Emphasis in Health Education & Promotion
- Bachelor of Science in Health, Human Performance and Sport Management: Emphasis in Health & Exercise Science in Secondary Education

Department of Mathematics & Statistics
- Bachelor of Arts in Mathematics
- Bachelor of Science in Mathematics

Department of Nursing
- Associate of Science in Nursing
- Bachelor of Science in Nursing

Department of Physics & Astronomy
- Bachelor of Arts in Physics
- Bachelor of Science in Physics
The Department of Applied Science is an interdisciplinary, graduate only department which supports applied research in a broad set of areas, including the following:

- Combustion
- Nanotechnology
- Plant Genetics
- Biomedical Engineering
- Biotechnology
- Environmental Research
- Geophysics
- Optics and Solar Energy
- Materials Science
- Signal Processing

The department offers two degrees: the Doctor of Philosophy and the Master of Science. Each degree has several emphases, which are explained under the separate programs. Faculty housed in several other departments within the College of Science participate in the various emphasis tracks.

### Courses in Applied Science (ASCI)

**ASCI 4310 Introduction to Signal Processing Cross-Listed (SYEN 4310)**

Prerequisite: MATH 3322 or equivalent. Introduction to the fundamental concepts and mathematics in signal processing. Use of the fundamental transform techniques (Laplace transform, discrete Fourier transform, z-transform). Discrete time representation of signals, linear time invariant systems. Correlation, coherence, power spectral density, and time delays. Bode plots, poles and zeros, state space. Standard system models (ARMA, ARMAX). FIR and IIR filters. Dual-listed in the UALR Graduate Catalog as ASCI 5310. Three hours lecture. Three credit hours.

**ASCI 4355 Elastic Wave Theory (Cross-listed with SYEN 4371)**


**ASCI 4360 Potential Theory**

Solution to Laplace equation using different boundary and initial conditions. One-, two-, and three-dimensional equations will be analyzed. Various coordinate systems (rectangular, cylindrical, and spherical) will be used in the solution of Laplace equation. Bessel function and orthogonality of Bessel function. Legendre function, Associate Legendre function, and orthogonality of Legendre function. Dual-listed in the UALR Graduate Catalog as ASCI 5360. Three credit hours.
**Chairperson:** Bush, John M., Associate Professor

**Professors:** Baltosser, William H.
Kleve, Maurice G.
Lanza, Janet
Lynch, Thomas J.
Sikes, Robert S.

**Associate Professors:** Grace, Stephen C.
Stapleton, Carl R.
Tang, Fusheng
Tarasenko, Olga M.
Wang, Hong

**Assistant Professors:** Gifford, Matthew E.
Zeng, Lirong

**Instructors:** Barnes, Greg F.
Hearnsberger, Scott M.
Payne, Forrest E.
Pritts, Terrell E.

**Adjunct Professors:** Fearer, Todd
Green, Reed
Tumilson, Renn

**Professor Emeriti:** Baeyens, Dennis
Heidt, Gary
Ferguson, Dale
Fribourgh, Jim
Moore, Phyllis
Morgans, Lee
Peck, James
Whitsell, Joseph

Biology is a diverse discipline, the study of which allows entry into fields such as biotechnology, cell biology, conservation, ecology, physiology, environmental sciences, and the many aspects of the health-related sciences. The biology department includes faculty, coursework, and programs in the traditional area of biology, Ecology and Organismal, molecular biotechnology, secondary education, and environmental health sciences. The biology department offers two degree programs: BS in biology and BS in environmental health sciences.

Students in both degree programs benefit from extensive laboratory experience that provides hands-on use of modern laboratory and field equipment. Through an affiliation with the Gulf Coast Research Laboratory at Ocean Springs, Mississippi, the department offers a variety of courses in marine biology. Furthermore, abundant opportunities allow specialized learning through undergraduate research, internships, cooperative education, and practicums. Student organizations for both degree programs provide opportunities for recreational, service, and career-oriented activities in which students and faculty interact informally.

**General Information**

Within the biology curriculum, the department offers courses that serve several objectives: to provide students with an understanding of basic biological principles and their importance in society; to provide a pre-professional background for students preparing to enter medicine, dentistry, veterinary medicine, and other professional fields; to provide a strong academic background for students entering careers immediately after the completion of their undergraduate degree; and to provide the breadth and depth of background needed to succeed in a graduate program.

A student pursuing the BS in biology may select from four concentrations: general biology, ecology and organismal biology, molecular biotechnology, and secondary education. A minor in biology is also offered.

**Admission Requirements**

Students who select biology as their major must have completed at least 15 credit hours at UALR, have a cumulative grade point average of 2.00 or greater on all course work at UALR, and have taken BIOL 1400 or BIOL 1401 (or equivalent) with a grade of C or greater.

Students who entered UALR conditionally by contract must complete the contract before being eligible for admission to the biology program.

Decisions regarding course equivalency and situations in which students have tested out of courses or transferred credit from other programs will be made by the department chairperson.

Transfer students with 30 hours or more in transfer credit may be accepted into the biology degree program with fewer than 15 hours at UALR with the approval of the department chairperson.

**Honors Program in Biology**

The department offers an honors program to provide qualified students the opportunity to pursue advanced study and receive appropriate recognition. Interested students should apply to the department chairperson for admission.

Participants in the honors program are selected by the department faculty on the basis of these criteria:

1. junior standing,
2. minimum cumulative GPA of at least 3.25, and
3. acceptance by a faculty member for participation in a research project.

To complete the honors program a student must:

1. maintain the 3.25 GPA,
2. enroll in undergraduate research courses for a minimum of two semesters,
3. complete a minimum of three credit hours and a maximum of six hours of undergraduate research, and
4. present the results of the undergraduate research project at an honors seminar as well as submit a written report approved by the faculty supervisor to the department faculty.
**Gulf Coast Research Laboratory**

The University of Arkansas at Little Rock is affiliated with the Gulf Coast Research Laboratory at Ocean Springs, Mississippi. Through this arrangement students receive UALR credit for courses taken at the research laboratory during the 12-week summer teaching session, which usually begins the first full week in June each year. The summer session consists of two terms, although the length of some classes varies. Students register and pay tuition on the UALR campus and have their credit transferred to this campus for inclusion in their academic records. Students who want to take courses in this program must apply by May 1 for summer enrollment and have prior approval of their department chairperson or the on-campus coordinator. For more information or application forms, contact the chairperson, Department of Biology.

**Major in Biology**

Students who wish to major in biology may choose from four different concentrations:

1. General Biology
2. Ecology and Organismal Biology
3. Molecular Biotechnology
4. Secondary Education/Teacher Licensure

**General Biology Concentration**

This concentration is designed to give students a broad overview of biology. Students completing this program have a broad background but also have enough upper-level courses to build depth in knowledge and skills. The program provides sufficient flexibility that students can tailor their programs to specific needs.

**Ecology and Organismal Biology Concentration**

This concentration is designed to prepare students interested in ecology, conservation, and organismal biology for entry into graduate programs, employment in governmental agencies, non-profit organizations, or positions where an integrating organismal and ecological background is required. Students completing this program have a broad background but also have enough upper-level courses to build depth in knowledge and skills. The program provides sufficient flexibility that students can tailor their programs to specific needs.

**Molecular Biotechnology Concentration**

This concentration is a joint effort between the biology department at the UALR and the medical technology department of the UAMS. The curriculum is designed for students who want to pursue a research career in molecular biotechnology at the bachelor’s level (this program is not intended as a premedical or pre-professional curriculum). This concentration will prepare students for technical occupations in basic and applied molecular biotechnology research and positions with federal and state governmental agencies and private or commercial enterprises that conduct either basic or applied research in biotechnology.

The concentration is divided into two levels: a four-semester Pre-Biotechnology Curriculum that leads to admission to the Molecular Biotechnology Research Program (MBRP) which is a joint curriculum between UALR and UAMS. Completion of the Pre-Biotechnology Curriculum and candidacy to the MBRP requires a minimum of 60 hours including BIOL 2401, 2402, 2403, and 3300; eight hours of general chemistry; four hours of organic chemistry; and a minimum GPA of 2.60. Students transferring to UALR who wish to apply to the MBRP may substitute transferring courses for these requirements with the approval of the Molecular Biotechnology Research Committee. Admission to the MBRP will be competitive, based on the student’s cumulative GPA, an interview with the Molecular Biotechnology Research Committee, and two faculty recommendations. Each fall, a maximum of 20 students meeting these requirements will be admitted to the program.

This program of courses is a major-minor combination; no separate minor field is required. Requirements for this concentration are as follows in the column to the right.

**Secondary Teacher Licensure**

This concentration is designed to prepare students for teacher licensure in secondary education. Biology is the major emphasis and earth sciences the secondary emphasis (as prescribed by Arkansas law). A minor in secondary education is required. For more information, please see “Secondary Education Licensure” and contact the Department of Biology for academic advising.

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**Bachelor of Science in Biology**

**General Biology Concentration**

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**

See page 25 for requirement details. (In completing courses required in the biology major, 8-hour lab science core requirement also met.)

**Second Language Proficiency (none required)**

**Major (61 hours)**

**Biology Foundation Courses-All Concentrations (23 hours)**

- BIOL 1400 Evolutionary and Environmental Biology
- BIOL 1401 Science of Biology
- BIOL 2401 Microbiology
- BIOL 2402 Botany
- BIOL 2403 Zoology
- BIOL 3300 Genetics
- BIOL 3303 Principles of Ecology
- BIOL 4190 Biology Seminar

Students must achieve a C or greater in each of these courses to complete the Foundation Course requirements.

**General Biology Required Courses (38 hours)**

- BIOL 1400 Evolutionary and Environmental Biology
- BIOL 1401 Science of Biology
- BIOL 2401 Microbiology
- BIOL 2402 Botany
- BIOL 2403 Zoology
- BIOL 3300 Genetics
- BIOL 3303 Principles of Ecology
- BIOL 4190 Biology Seminar

**Biology Electives: (17 hours)**

Must include at least three courses with laboratories either as part of the course or as a separately numbered laboratory course. Students may choose these electives from the remaining biology course offerings on the basis of individual preference or need. Students choosing to specialize further may select an emphasis in botany, cell biology and physiology, ecology, or zoology.

**Additional requirements: (21 hours)**

Students must complete at least eight hours of freshman chemistry, four hours of organic chemistry, six hours of physics (PHYS 1321 and 1322 or equivalent) and three hours of computer science or statistics.

**Minor (12-29 hours—typical minor requires 18)**

**Unrestricted General Electives**

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Science in Biology

Ecology and Organismal Biology Concentration

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (In completing courses required in the biology major, 8-hour lab science core requirement also met.)

Second Language Proficiency (none required)

Major (79 hours)

Biology Foundation Courses-All Concentrations (23 hours)
- BIOL 1400 Evolutionary and Environmental Biology
- or BIOL 1401 Science of Biology
- BIOL 2401 Microbiology
- BIOL 2402 Botany
- BIOL 2403 Zoology
- BIOL 3300 Genetics
- BIOL 3303 Principles of Ecology
- BIOL 4190 Biology Seminar

Students must achieve a C or greater in each of these courses to complete the Foundation Course requirements.

Ecology and Organismal Biology Required Courses (17 hours)
- BIOL 3100 Genetics Lab
- BIOL 3103 Ecology Lab
- BIOL 3405 Invertebrate Zoology
- or BIOL 3409 Vertebrate Zoology
- BIOL 4310 Evolution
- BIOL 4403 Plant Taxonomy
- or BIOL 4412 Plant Ecology
- BIOL 4403 Comparative Physiology
- or BIOL 4419 Plant Physiology

Ecology and Organismal Electives (12 hours from the following)
- BIOL 3405, 3409, 3407, 3391, 3199-3499, 4312, 4314, 4315, 4402, 4404, 4405, 4407, 4408, 4409, 4410, 4411, 4412, 4421, 4424, 4305, 4419, 4401, 4415, 4417, 4391, 4199-4399, 4100-4300, 4189-4389
- ENHS 3310
- ERSC 4422
- Gulf Coast Research Laboratory courses

Physical Sciences and Mathematics (27 hours)
- CHEM 1400 & 1401 Fundamental Chemistry I & II
- or CHEM 1402 & 1403 General Chemistry I & II
- CHEM 2450 Organic Survey
- or CHEM 3150/3350 General Organic Chemistry I with lab
- STAT 2350 Introduction to Statistical Methods
- or MATH 1311/1111 Applied Calculus I with lab or higher
- 12 additional upper-level credits in mathematics, statistics, or science courses other than biology (i.e. Earth Science, Physics, or Chemistry)

Minor (none required)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Biology

Molecular Biotechnology Concentration

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (In completing courses required in the biology major, 8-hour lab science core requirement also met.)

Second Language Proficiency (none required)

Major (79 hours)

Biology Foundation Courses-All Concentrations (23 hours)
- BIOL 1400 Evolutionary and Environmental Biology
- or BIOL 1401 Science of Biology
- BIOL 2401 Microbiology
- BIOL 2402 Botany
- BIOL 2403 Zoology
- BIOL 3300 Genetics
- BIOL 3303 Principles of Ecology
- BIOL 4190 Biology Seminar

Students must achieve a C or greater in each of these courses to complete the Foundation Course requirements.

Molecular Biotechnology Concentration (Joint effort between UALR and UAMS)

UALR Biotechnology (8 hours)
- BIOL 4417 Molecular Biology
- BIOL 4418 Biotechnology

Biology Electives-upper-level courses with laboratories (12 hours)
- A recommended course list is available from the Biology Department

UAMS Biotechnology (13 hours)
- 3210 Laboratory Principles and Techniques
- 3211 Introduction to Research
- 4305 Cell Culture Principles and Techniques
- 4106 Technology Transfer
- 4507 Biotechnology Laboratory Internship

Physical Sciences, Mathematics, and Computations (24 hours)
- Chemistry (12 hours)
  - CHEM 1400 Fundamental Chemistry I
  - or CHEM 1402 General Chemistry I
  - CHEM 1401 Fundamental Chemistry II
  - or CHEM 1403 General Chemistry II
  - CHEM 2450 Organic Chemistry Short Course

- Physics (6 hours)
  - PHYS 1321 Elementary Physics I
  - PHYS 1322 Elementary Physics II

- Mathematics (3 hours)
  - MATH 1302 College Algebra

- Computer Science (3 hours)
  - CPSC 1370 Computer Literacy
  - or equivalent course

Minor (none required)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Science in Biology Secondary Education/Life Sciences

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major

Biology Foundation Courses (23 hours)
(In completing courses required in the biology major, 8-hour lab science core requirement also met.)

BIOL 1400 Evolutionary and Environmental Biology
BIOL 4190 Biology Seminar

TCED 4600 Student Teaching
SCED 4330 Reflective Teaching

BIOL 2401 Microbiology
BIOL 2402 Botany
BIOL 2403 Zoology
BIOL 3300 Genetics
BIOL 3303 Principles of Ecology
BIOL 4190 Biology Seminar

Students must achieve a C or greater in each of these courses to complete the Foundation Course requirements

Concentration Requirements (43 hours)

BIOL 3100 Genetics Lab
BIOL 3103 Ecology Lab
ERSC 1302/1102 Physical Geology
ERSC 1303/1103 Historical Geology

ERSC Electives – 3 Hours
ERSC 3380 Oceanography
or ERSC 3390 Weather Studies
PHYS 1321 Elementary Physics I

BIOL electives – 12 hours to include at least one course in organismal and cellular biology

Other Requirements (12 hours)
8 Hours freshman Chemistry and 4 Hours Organic Chemistry

Minor (18 hours)

Secondary Education Courses
SCED 3110 Instructional Skills Practicum
SCED 4321 Teaching Diverse Adolescents
SCED 4222 Adolescent Diversity Practicum
SCED 4223 Adolescents with Special Needs
SCED 424 Classroom Management
TCED 4600 Student Teaching
SCED 4330 Reflective Teaching

**Students must pass the *Praxis I before enrolling in SCED, TCED, and ARED 4194 courses. GPA of 2.65 is required for admission to the education program. Students must pass the Praxis II prior to graduating.

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Minor in Biology

A minor in biology requires 20 hours of credit in biology courses to include BIOL 1400 or 1401, a minimum of eight hours from sophomore level courses and eight additional hours, at least three of which must be upper level.

NOTE: Intro to Human Anatomy and Physiology (BIOL 1411 and 1412) as well Human Genetics (BIOL 3313) does not count towards biology major or minor.

Courses in Biology (BIOL)

BIOL 1102 Introductory Biology Laboratory
A laboratory course in introductory biology covering the general concepts of microscope use, cell organization, physical and chemical bases of life, energy processing, cell reproduction, plant tissue structures, animal structures, organismic reproduction and development, genetics, and evolution. Offered only to students who have transfer credit for three credit hours of introductory biology lecture or the equivalent. Two hours laboratory per week. One credit hour.

BIOL 1111 Introduction to Human Anatomy and Physiology I Laboratory
Prerequisite: Only for students that have taken A&P I lecture or equivalent elsewhere or completed an online A&P I lecture equivalent. A laboratory course designed to be taught inside the current BIOL 1411 course and offered only to students that have 3 hours of Biology Department approved transfer credit for A&P I lecture or equivalent. After an introduction, the following topics will be discussed: basic chemistry, cell biology, histology, integumentary system, skeletal system, nervous system, and sensory system. This course cannot be used for credit toward a biology major or minor. Two hours laboratory per week. One credit hour.

BIOL 1112 Introduction to Human Anatomy and Physiology II Laboratory
Prerequisite: Only for students that have taken A&P II lecture or equivalent elsewhere or completed an online A&P II lecture equivalent. A laboratory course designed to be taught inside the current BIOL 1412 course and offered only to students that have 3 hours of Biology Department approved transfer credit for A&P II lecture or equivalent. After an introduction, the following topics will be discussed: muscular, digestive, respiratory, circulatory, lymphatic, urinary, reproductive, and endocrine organ systems. This course cannot be used for credit toward a biology major or minor. Two hours laboratory per week. One credit hour.

BIOL 1305 Science Skills
Prerequisite: Permission of the instructor. This course will help biology, chemistry, and earth science students reach their educational objectives. Interactive instructional methods promote the development of skills that lead to success in college and a successful career in science. Students 1) identify and use appropriate campus resources, 2) master common computer programs, 3) learn graphing and statistical methods, 4) develop better strategies to manage money, time, and stress wisely, and 5) explore the research conducted by UALR science faculty. Grading is based on projects, attendance, and participation. This course cannot be used for credit toward a biology, chemistry, or earth science major or minor. Three credit hours.

BIOL 1400 Evolutionary and Environmental Biology
Evolutionary, ecological, and environmental interrelationships among organisms. Basic biological principles and modern technology form the basis for inquiry and debate. The impact of society upon global biodiversity is examined from competing viewpoints. The role of science in shaping society and the influence of society upon science are evaluated. Students learn through reading, writing, computer simulations, videos, field exercises, and through participation in critical thinking and problem-solving activities. Three hours lecture, two hours laboratory per week. Four credit hours. (ACTS Course Number BIOL 1004)
BIOL 1401 Science of Biology
The process of science, including observation, evaluation, and predictions, will be applied to the understanding of biological principles. Illustration of the methods of science in the study of major biological concepts, including the cell theory, energy transformation, inheritance, and the theory of evolution. Selected biological systems will be surveyed to compare life forms and to examine related human issues. Three hours lecture, two hours laboratory per week. Four credit hours. (ACTS Course Number BIOL 1014)

BIOL 1411 Introduction to Human Anatomy and Physiology I
The first semester of a two-semester course emphasizing the anatomy and physiology of the human organism. After an introduction, the following topics will be discussed: basic chemistry, cell biology, histology, integumentary system, skeletal system, nervous system, and sensory system. This course cannot be used for credit toward a biology major or minor. Three hours lecture, two hours laboratory per week. Four credit hours. (ACTS Course Number BIOL 2404)

BIOL 1412 Introduction to Human Anatomy and Physiology II
Prerequisite: Biology 1411 or consent of instructor. The second semester of a two-semester course emphasizing the anatomy and physiology of the human organism. The muscular, digestive, respiratory, circulatory, lymphatic, urinary, reproductive, and endocrine organ systems will be covered during this term. This course cannot be used for credit toward a biology major or minor. Three hours lecture, two hours laboratory per week. Four credit hours. (ACTS Course Number BIOL 2414)

BIOL 1413 Human Biology
A study of the structure and function of the human body, including the basic anatomy and physiology of the various body systems. Special attention will be given to methods of promoting and ensuring the well-being of the human organism. Designed for general students who want practical information about their bodies. This course is not intended for students majoring in nursing nor can it be used for credit toward a biology major or minor. Three hours lecture, two hours laboratory per week. Four credit hours.

BIOL 2301 Environment and Man
A study of the relationship between humans and the natural environment. Characteristic animal and plant life in broad areas of nature and the influence individuals exert on these organisms; population and environmental problems humans have created, with the possible implications for the future and corrections which must be faced. Three hours lecture. Credit not applicable toward a biology major. Three credit hours.

BIOL 2400 Human Microbiology
A study of microbiological principles and those microorganisms relating to humans and their environment. This course is designed for associate degree health related programs and is not recommended for a baccalaureate degree in health related professions. This course cannot be used for credit toward a biology major or minor. Three hours lecture, two hours laboratory per week. Four credit hours.

BIOL 2401 Microbiology
Prerequisites: BIOL 1400 or 1401, or 1411 and 1412, AND CHEM 1400 or 1402, or their equivalents. The morphology, physiology, and classification of microorganisms; the relationship of microorganisms to biotechnology, medicine, and nursing. Two hours lecture, four hours laboratory per week. Four credit hours. (ACTS Course Number BIOL 2004)

BIOL 2402 Botany
Prerequisite: BIOL 1400 or 1401 or equivalent. The structure and function of plants at the molecular, cellular, and organismal levels; survey of major plant groups. Two hours lecture, four hours laboratory per week. Four credit hours. (ACTS Course Number BIOL 1054)

BIOL 2403 Zoology
Prerequisite: BIOL 1400 or 1401 or equivalent. A survey of the animal kingdom from microscopic forms to mammals. Acquaints the student with the nature of animals. A study of general principles including taxonomy, organ systems, similarities of structure, function, and behavior of animals. Three hours lecture, two hours laboratory per week. Four credit hours. (ACTS Course Number BIOL 1054)

BIOL 3100 Genetics Laboratory
Prerequisite or corequisite: BIOL 3300. Selected experiments in genetics to emphasize techniques, analysis, and interpretation of the principles of inheritance in plants and animals. Two hours laboratory per week. One credit hour.

BIOL 3103 Principles of Ecology Lab
Prerequisite or corequisite: BIOL 3303. Basic methods and materials of ecological research. Two hours laboratory. One credit hour.

BIOL 3300 Genetics
Prerequisites: 12 hours of biology to include BIOL 1400 or 1401 or equivalent, four hours of chemistry; microbiology is recommended. Basic principles and theories of inheritance with applications to plants, animal, and human heredity. Emphasis on roles of DNA and RNA and the genetics of microorganisms. Three hours lecture per week. Three credit hours.

BIOL 3303 Principles of Ecology
Prerequisites: BIOL 1400 or 1401, 2402 or 2403, or their equivalents. Recommended corequisite: BIOL 3103. Principles of Ecology Lab. An introduction to living organisms and relationships to their environment including the structure and interactions of populations, communities, ecosystems, and the biosphere. Three hours lecture per week. Three credit hours.

BIOL 3313 Human Genetics
Prerequisites: BIOL 1400 and 1401 or BIOL 1411 and 1412 or the consent of the instructor. The basic concepts and mechanisms of human genetics in relationship to human uniqueness; impact on advances in healthcare, biotechnology; public policy, and the law. Study of genetics technology for detecting, treating, and preventing genetic disorders. This course cannot be used for credit toward a biology major or minor. Three hours lecture per week. Three credit hours.

BIOL 3391 Cooperative Education in Biology
Prerequisites: junior standing, acceptance as a biology major, minimum GPA of 2.50, and consent of the department chairperson. Cooperative education seeks to integrate academic and professional work experience. Students will be placed in a work setting consistent with their biological career objectives. This course requires a minimum of 200 semester work hours. No more than six hours independent study, undergraduate research, and/or cooperative education may be counted for biology elective credit (See “Independent Research and Study” on page 35). Three credit hours.

BIOL 3400 Developmental Biology
Prerequisites: BIOL 1400 or 1401, 2403, or their equivalents. The development of organisms including the topics of gametogenesis, fertilization, cleavage, morphogenesis, organogenesis, cell differentiation, and regeneration. These topics will be approached from both the structural point of view of classical embryology and the more recent molecular mechanistic viewpoint. Three hours lecture, two hours laboratory per week. Four credit hours.

BIOL 3402 Mammalian Anatomy
Prerequisite: BIOL 2403. A study of the gross anatomy of mammalian organ systems with emphasis being placed on the human organism. Three hours lecture, two hours laboratory per week. Four credit hours.
BIOL 3404 Comparative Vertebrate Morphology
Prerequisites: BIOL 1400 or 1401, 2403, or their equivalents. The comparative anatomy of selected vertebrate animals; homologous structures in various animal groups. Two hours lecture, four hours laboratory per week. Four credit hours.

BIOL 3405 Invertebrate Zoology
Prerequisites: BIOL 1400 or 1401, 2403, or their equivalents. Comparative anatomy, physiology, embryology, adaptive radiation, and evolutionary relationships of invertebrate groups. Three hours lecture, two hours laboratory per week. Four credit hours.

BIOL 3407 Plant Morphology
Prerequisites: BIOL 1400 or 1401, 2402, or their equivalents. A lecture-laboratory course covering the fundamental morphological characteristics of plants. The life histories and habits of the major plant groups are covered. Two hours lecture, four hours laboratory per week. Four credit hours.

BIOL 3408 Vertebrate Histology
Prerequisites: BIOL 1400 or 1401, 2403, or BIOL 1411 and 1412, or their equivalents. A study of the cell and fundamental tissues; the microscopic structure of the organ systems of representative vertebrates, and emphasis on the relationship between microscopic structure and function. Three hours lecture, two hours laboratory per week. Four credit hours.

BIOL 3409 Vertebrate Zoology
Prerequisites: BIOL 1400 or 1401, 2403, or their equivalents. A general study of vertebrates, including adaptations, reproduction, behavior, distribution, ecology, and taxonomy. Emphasis on Arkansas species and field studies. Two hours lecture, four hours laboratory per week. Four credit hours.

BIOL 3411 Dendrology
Prerequisites: BIOL 1400 or 1401, 2402, or their equivalents. Detailed coverage of tree and other woody plant identification, recognition, classification, silvics, range, economic use, and wildlife value of native and introduced North American species. Two hours lecture, four hours laboratory per week. Four credit hours.

BIOL 3499 Special Topics
Prerequisites: variable, depending on instructor and course content. Each special topics course must first be approved by the biology department, which will also decide if biology credit will be granted. The topics will represent specialized areas of study in the biological sciences. Credit will vary and will depend on the amount of time necessary to cover the topic. One to four hours lecture. One, two, three, or four credit hours.

BIOL 4190 Biology Seminar
Prerequisites: senior standing and completion of or concurrent enrollment in biology core courses. Preparation and presentation of papers including analysis and implications of investigations in the biological sciences. Required of all majors. One hour per week. One credit hour.

BIOL 4201 AIDS
Prerequisites: BIOL 1400 or 1401, junior class standing, or consent of the instructor. Graduate standing required if student enrolled in BIOL 5201. A study of the disease AIDS. This will include cell biology, the disease process, and the social, economic, legal, and political aspects related to the disease and society. This course cannot be used for credit toward a biology major or minor. Dual-listed in the UALR Graduate Catalog as BIOL 5201. Two hours lecture per week. Two credit hours.

BIOL 4100, 4200, 4300 Independent Study
Prerequisites: senior standing, at least 20 hours in biology, and consent of the instructor. For students who wish to conduct library studies, curate museum collections, help faculty with a variety of special projects, or perform other activities. The student is expected to spend two to four hours per week on the project for each hour of credit earned. The exact hourly commitment per week will depend on the nature of the project and will be agreed on in advance by the student and instructor. No more than six hours independent study, cooperative education, and/or undergraduate research may be counted for biology elective credit (See “Independent Research and Study”). One, two, or three credit hours.

BIOL 4305 Animal Behavior
Prerequisites: BIOL 1400 or 1401, 2403. Graduate standing required to enroll in 5305. Description of the known behavior of various vertebrate and invertebrate phyla with emphasis on adaptive significance. Special attention to mating, defensive, nutritive, and social behavior. The ontogeny of behavioral patterns will be presented where known. Behavior will be related to the ecology of various animal populations. Dual-listed in the UALR Graduate Catalog as BIOL 5305. Three hours lecture per week. Three credit hours.

BIOL 4308 Wildlife Management
Prerequisites: BIOL 1400 or 1401, 2403, or their equivalents. Wildlife conservation and management. Ecology, program development, and management of wildlife in relation to the objectives of consumptive and nonconsumptive interest groups. Three hours lecture per week. Three credit hours.

BIOL 4309 Wildlife Management Techniques
Prerequisites: BIOL 1400 or 1401, 2403. Techniques and equipment used to obtain biological information needed to manage wildlife on a scientific basis. Fundamental procedures of planning and conducting wildlife investigations. One hour lecture, six hours laboratory per week. Three credit hours.

BIOL 4310 Evolution
Prerequisites: BIOL 1400 or 1401 and junior standing. Graduate standing required if student enrolled in 5310. Basic principles of evolutionary biology are covered, including: Darwinian Theory, principles of inheritance, micro-evolution and speciation processes. The evolution of humans is also discussed. Dual-listed in the UALR Graduate Catalog as BIOL 5310. Three hours lecture per week. Three credit hours.

BIOL 4311 Neurobiology
Prerequisites: 16 hours in biology or consent of instructor; CHEM 1401 or 1403 strongly encouraged. This course examines the functioning of the nervous system, with emphasis on vertebrates—in particular, humans. The course covers the structure and function of neurons as the fundamental unit of the nervous system, functional neuroanatomy, and the basic principles of nervous system development. Three hours lecture per week. Three credit hours.

BIOL 4312 Population and Community Ecology
Prerequisites: BIOL 3303 and at least junior standing. Graduate standing required if student enrolled in BIOL 5312. Basic principles of population ecology will be discussed, including niche concept, demography, population growth and regulation, life history patterns, sociality, competition, predation, mutualisms, and control of community structure. Dual Listed in the UALR Graduate Catalog as BIOL 5312. Three hours lecture per week. Three credit hours.
BIOL 4314 Soil Biology
Prerequisites: BIOL 1400 or BIOL 1401, BIOL 2401, and BIOL 2403; Successful completion of BIOL 3303 is strongly recommended. If taken for graduate credit, the prerequisites also include a BS in biology or permission of the instructor. Concepts of soils are presented with emphasis on biological processes and soil/ ecosystem relationships. Hands-on laboratory exercises and field exercises will supplement course lectures. Dual-listed in the UALR Graduate Catalog as BIOL 5314. Three hours lecture per week. Three credit hours.

BIOL 4315 Toxicology
Prerequisites: BIOL 1401, BIOL 2401, and BIOL 2403; Successful completion of BIOL 3402 or 4413 is strongly recommended. If taken for graduate credit, the prerequisites also include a BS in biology or permission of the instructor. Principles of toxicology are presented with an emphasis on toxicokinetics and toxicity mechanisms. Laboratory testing, risk analysis, and study design requirements are applied to various settings. Lectures will be supplemented with case studies. Dual-listed in the UALR Graduate Catalog as BIOL 5315. Three hours lecture per week. Three credit hours.

BIOL 4189, 4289, 4389 Undergraduate Research
Prerequisites: junior standing, at least 20 hours in biology, consent of the instructor. Students will design and conduct an independent scientific investigation. A paper reporting on the project in journal format is required for completion of the course. The student is expected to spend two to four hours per week on the project for each hour of credit earned. The exact hourly commitment per week will depend on the nature of the project and will be agreed upon in advance by the student and instructor. No more than six hours independent study, cooperative education, and/or undergraduate research may be counted for biology elective credit (See “Independent Research and Study”). One, two, or three credit hours.

BIOL 4391 Cooperative Education in Biology
Prerequisites: senior standing, acceptance as a biology major, minimum GPA of 2.50, completion of BIOL 3391, and consent of the department chairperson. Cooperative education seeks to integrate academic and professional work experience. Students will be placed in a work setting consistent with their biological career objectives. This course requires a minimum of 200 semester work hours. No more than six hours independent study, undergraduate research, and/or cooperative education may be counted for biology elective credit (See “Independent Research and Study”). Three credit hours.

BIOL 4401 Cell Biology
Prerequisites: BIOL 1400 or 1401, 12 additional hours in biology, CHEM 1401 or 1403; microbiology is strongly encouraged. A study of the organization of cells as related to the structure and function of biological molecules. Emphasis is placed on eukaryotic cells. Dual-listed in the UALR Graduate Catalog as BIOL 5401. Three hours lecture, three hours laboratory per week. Four credit hours.

BIOL 4402 Limnology
Prerequisites: BIOL 1400 or 1401, 2402, 2403, 3303, CHEM 1403, or equivalents. A study of physical and chemical characteristics of water, morphometry and physiography of lake and stream basins and an introduction to the ecology and taxonomy of aquatic communities. Laboratory: Instruction in methods of physical, chemical, and biological sampling and analysis. Field work will include study of various types of aquatic habitats and sampling methods involved. Some extended Saturday field trips will be required. Dual-listed in the UALR Graduate Catalog as BIOL 5402. Two lectures, one four-hour laboratory per week. Four credit hours.

BIOL 4403 Comparative Physiology
Prerequisites: BIOL 1400 or 1401, 2403, CHEM 1403, or the equivalents. Organ function in a wide range of organisms, including vertebrates and invertebrates. A comprehensive survey of functional relationships in more than one group of animals. Dual-listed in the UALR Graduate Catalog as BIOL 5403. Three hours lecture, three hours laboratory per week. Four credit hours.

BIOL 4404 Mammalogy
Prerequisites: BIOL 1400 or 1401, 2403, 3404 or 3409, or their equivalents, or consent of instructor. Classification, distribution, ecology, and natural history of mammals. Emphasis on Arkansas species. Field studies, preparation of study specimens. Dual-listed in the UALR Graduate Catalog as BIOL 5404. Two hours lecture, four hours laboratory per week. Four credit hours.

BIOL 4405 Ichthyology
Prerequisites: BIOL 1400 or 1401, 3404 or 3409. Classification, phylogeny, morphology, physiology, and ecology of fishes concentrating on North American and Arkansas freshwater fishes. Dual-listed in the UALR Graduate Catalog as BIOL 5405. Three hours lecture, three hours laboratory. Four credit hours.

BIOL 4406 Pathogenic Microbiology
Prerequisites: BIOL 1400 or 1401, 2401, or their equivalents. Survey of pathogenic microbiology, immunology, and virology with emphasis on fundamental principles of each science and their application to the diagnosis and control of human diseases. Dual-listed in the UALR Graduate Catalog as BIOL 5406. Three hours lecture, two hours laboratory per week. Four credit hours.

BIOL 4407 Herpetology
Prerequisites: BIOL 1400 or 1401, 3403, 3404 or 3409, or their equivalents, or consent of instructor. Classification, anatomy, distribution, ecology, and natural history of amphibians and reptiles. Field techniques, student projects, laboratory work, and curatorial training will emphasize species found in Arkansas. Dual-listed in the UALR Graduate Catalog as BIOL 5407. Two hours lecture, four hours laboratory per week. Four credit hours.

BIOL 4408 Advanced Field Biology
Prerequisites: BIOL 1400 or 1401, 2402, 2403, 3303, 3409, or their equivalents. An analysis of major ecological habitats. Comparison of these areas with respect to their physiographic floral and faunal components. Emphasis on vertebrates. Students will spend an extended time in the field. Enrollment is by application only, and a separate field fee is charged. Ninety hours of lecture/laboratory/field trip activity. Four credit hours.

BIOL 4409 Plant Taxonomy
Prerequisites: BIOL 1400 or 1401, 2402 or their equivalents. A study of the principles of plant identification, classification, systematics, and nomenclature. Major families of flowering plants with emphasis on the floristics of the immediate area. Dual-listed in the UALR Graduate Catalog as BIOL 5409. Two hours lecture, four hours laboratory. Four credit hours.

BIOL 4410 Fisheries
Prerequisites: BIOL 1400 or 1401, 2403, 3303 or 3409, or their equivalents, or consent of instructor. A survey of fish management and fish culture principles and techniques including population assessment, habitat improvement, pond culture, commercial fish farming, and an introduction to fish diseases. Dual-listed in the UALR Graduate Catalog as BIOL 5410. Three hours lecture, three hours laboratory per week. Four credit hours.

BIOL 4411 Ornithology
Prerequisites: 16 hours in biology to include BIOL 2403. This course is designed to introduce students to selected aspects of avian biology. Emphasis is placed on ecology, evolutionary biology, natural history, and classification of birds. Three hours lecture, two hours laboratory per week. Weekend field trips. Dual-listed in the UALR Graduate Catalog as BIOL 5411. Four credit hours.
**BIOL 4412 Plant Ecology**  
Prerequisites: BIOL 1400 or 1401, 2402 or 2403, 3303, or their equivalents. Study of plant species ecology (life history and reproductive biology) and vegetation ecology (abundance, structure, dispersion, patterns, and dynamics), with emphasis on quantitative methodology and management principles. Dual-listed in the UALR Graduate Catalog as BIOL 5412. Three hours lecture, two hours laboratory per week. Four credit hours.

**BIOL 4413 Immunology**  
Prerequisites: BIOL 1400 or 1401, 2401, CHEM 1402, 1403. Immunobiology and immunochemistry of humoral and cellular mechanisms of immunity. Dual-listed in the UALR Graduate Catalog as BIOL 5413. Three hours lecture, two hours laboratory per week. Four credit hours.

**BIOL 4414 Biological Methods and Instrumentation**  
Prerequisites: junior standing (60 hours to include 20 hours of biology including 2401, 3300), eight hours of chemistry. A hands-on study of modern biological experimentation. Designed to allow students to perform experiments using radioisotopes, electrophoresis, centrifugation, chromatography, RIA, ELISA, respirometry, enzyme assays and spectrophotometric analysis, with an emphasis on computer analysis of data. Each student will complete an individual research project. Two hours lecture, four hours laboratory. Four credit hours.

**BIOL 4415 Biometry**  
Prerequisites: 12 hours of biology, environmental health sciences, or earth science (in combination or singularly); MATH 1302 or higher numbered mathematics course; three hours of statistics; or consent of instructor. Graduate standing required if student enrolled in 5415. A computer based course in experimental design, data analysis, and interpretation. The objective of the course is to teach the application of statistical procedures relevant to the academic emphasis of students, not statistics per se. Designed to be especially beneficial to those students planning to seek an advanced degree upon completion of their baccalaureate or to go into quality control or research positions. Dual-listed in the UALR Graduate Catalog as BIOL 5415. Two hours lecture and four hours laboratory. Four credit hours.

**BIOL 4416 Microscopy**  
Prerequisites: 15 hours of biology. Graduate standing if student enrolled in 5416. A laboratory course in the fundamental theory and practical application of light and electron microscopy including specimen preparation, photomicrography, and digital computer image processing and enhancement. Topics include brightfield, darkfield, phase, differential interference, contrast, polarized and epi fluorescent light microscopy, and scanning and transmission electron microscopy. Strong emphasis is placed on experimental design and use of the microscope as an experimental tool. Dual-listed in the UALR Graduate Catalog as BIOL 5416. Two hours lecture, four hours laboratory per week. Four credit hours.

**BIOL 4417 Molecular Biology**  
Prerequisites: 19 hours in biology including both BIOL 2401 and 3300; CHEM 1401 or 1403. Successful completion of either BIOL 3400 or 4401 is strongly encouraged. If taken for graduate credit, the prerequisites also include a BS in biology or permission of the instructor. A study of molecular biology theory and practice. Emphasis is on the study of model systems to understand the current approaches and laboratory techniques necessary to answer basic questions in current molecular biology. Dual-listed in the UALR Graduate Catalog as BIOL 5417. Two hours of lecture and four hours of laboratory per week. Four credit hours.

**BIOL 4418 Biotechnology**  
Prerequisites: 19 hours of biology including 2401 and 3300; CHEM 1401 or 1403. BIOL 3400 and 4401 are strongly recommended. BIOL 4417 is also recommended or may be taken concurrently. A study of the applied science of biotechnology designed to introduce students to the elements of a biotechnological career. Topics range from traditional biotechnology such as animal and plant tissue culture to contemporary molecular biotechnology and the use of recombinant DNA technology and genetic engineering in research and industry. Emphasis will be placed on current biomedical, pharmaceutical, and agri/industrial applications. Graduate students must complete and defend a term paper. Dual-listed in the UALR Graduate Catalog as BIOL 5418. Two hours lecture, four hours laboratory per week. Four credit hours.

**BIOL 4419 Plant Physiology**  
Prerequisites: BIOL 1400 or 1401, 2402, CHEM 2450, or their equivalents, or consent of instructor. Study of water relations, nutrition, and metabolism including photosynthesis, growth, and development. Dual-listed in the UALR Graduate Catalog as BIOL 5419. Two hours lecture, four hours laboratory per week. Four credit hours.

**BIOL 4420 General Biochemistry**  
See CHEM 4420.

**BIOL 4421 Introduction to Geographic Information Systems (GIS)**  
Prerequisites: ERSC 2320 or ENHS 4415 or BIOL 4309, or consent of instructor. This course introduces Geographic Information Systems (GIS) and the use of spatial data for problem-solving in science. The lecture portion of the course focuses on the data models used to represent spatial features and on the processes involved in creating, acquiring, analyzing, and displaying georeferenced information. The laboratory portion of the course employs a project-based methodology including applications from geology, biology, environmental science, and political science to foster basic GIS software proficiency. Dual-listed in the UALR Graduate Catalog as BIOL 5421. Two hours lecture per week, four laboratory hours. Four credit hours.

**BIOL 4422 Mammalian Physiology**  
Prerequisites: BIOL 1400 or 1401, 2403, Chemistry 1403, and BIOL 2401 or their equivalents. General physiological principles and a treatment of functions and interrelations of mammalian systems. Dual-listed in the UALR Graduate Catalog as BIOL 5422. Three hours lecture, two hours laboratory. Four credit hours.

**BIOL 4423 Plant Anatomy**  
Prerequisites: BIOL 1400 or 1401, 2402, or their equivalents. Detailed coverage of the microscopic anatomy of all the organs of seed plants and a critical evaluation of the major tissue types found within these plant organs. Dual-listed in the UALR Graduate Catalog as BIOL 5423. Two hours lecture, four hours laboratory. Four credit hours.

**BIOL 4424 Entomology**  
Prerequisites: BIOL 1400 or 1401, 2403, or their equivalents. A study of insects including their anatomy, physiology, behavior, development, diversity, classification, and economic importance. Dual-listed in the UALR Graduate Catalog as BIOL 5424. Two hours lecture, four hours laboratory. Four credit hours.

**BIOL 4425 Forensic DNA**  
Prerequisites: 12 Hours of Biology to include BIOL 1400 or 1401, four hours of chemistry and Microbiology 2401 or consent of the instructor. Genetics is also highly recommended. A comprehensive review of biological principles applied to forensic DNA science, including sample recovery and handling, analytical techniques, and profile matching/exclusion. Dual-listed in the UALR Graduate Catalog as BIOL 5425. Two hours lecture; four hours laboratory per week. Four credit hours.
BIOL 4426 Plant and Human Nutrition
Prerequisites: BIOL 1401, BIOL 2402 and BIOL 2403. Plant nutrition refers to needs and uses of the basic chemical elements in the plants, which are essential for plant growth and development. Thus, plant nutrition is an area of fundamental importance for both basic sciences (Plant physiology, Plant cell and molecular biology, Plant development) and applied sciences (Agronomy, Crop physiology, Horticulture, Human nutrition and health). Human nutrition refers to the needs and uses of the basic chemical elements and compounds in the human body, which are essential for human development and healthy life. This course will focus on (1) Plant nutrients; (2) The uptake and transport of mineral nutrients in plants; (3) Functions of mineral nutrients in the growth and development of plants; (4) Nutrient deficiency and toxicity; (5) Uptake, transport and functions of mineral nutrients in human body; (6) Plant nutrients and their relationships to the human health; (7) Functional foods; and (8) Green Medicine. This course is designed for students who want to pursue a degree or update their knowledge in areas of plants sciences, agriculture, food science and human nutrition. Dual-listed in UALR Graduate Catalog as BIOL 5426. Two hours lecture, and four hours laboratory and case study per week. Four credit hours.

BIOL 4427/5427 Tissue Engineering
Prerequisites: Microbiology (2401) and one of the following: Immunology (4413), or Cell Biology (4401), or Molecular Biology (4417), or Biotechnology (4419). Tissue engineering (TE) is defined as the development and manipulation of laboratory-grown molecules, cells, tissues, or organs to replace and/or support the function of injured body parts. TE applies the principles and methods of biology, stem cell biology, immunology, life sciences, physical sciences, engineering, cell and drug delivery, nanobiotechnology, bioinformatics to understand physiological systems and to modify and create cells and tissues for therapeutical applications. TE is highly interdisciplinary. TE has resulted in both clinically used and experimental therapies for structural and functional repair (e.g. skin, bone, cartilage, tendon, muscle, and blood vessel), for enhancing metabolic function (e.g. liver) for improved drug delivery (localized delivery of a drug), and as a vehicle for cell-based gene therapy. Two hours lectures and two hours laboratory per week. Four credit hours.

BIOL 4428/5428 Techniques in Molecular Biology
Prerequisites: BIOL 3300 or its equivalent. BIOL 4417 or BIOL 4401 is strongly encouraged. A course designed to give students technical skills and understanding of basic principles in molecular biology and biotechnology. It emphasizes experimental techniques necessary for studying biological systems at the molecular level. Techniques covered include recombinant DNA and protein techniques, forward and reverse genetics methods in studying gene functions, including virus-induced gene silencing (VIGS) and online database mining. Dual-listed in the UALR Graduate Catalog as BIOL 5428. Two hours lecture and four hours laboratory per week. Four credit hours.

BIOL 4199-4499 Special Topics in Biology
Prerequisites: 20 hours in biology, consent of instructor; other prerequisites may be required depending on the topic. Specialized study in the biological sciences. Credit varies and depends on the depth of the course content. Each topic is appropriate for both advanced undergraduate and graduate students. Dual-listed in the UALR Graduate Catalog at the 5000-level. One to four hours lecture per week combined with up to four hours laboratory. One, two, three, or four credit hours.

Courses in Gulf Coast Research Laboratory (BIOL)

BIOL 3450 Introduction to Marine Zoology
Prerequisite: eight hours of biological science. A general introduction to the marine environment with emphasis on local fauna. Introduction to the marine environment and some of its physical, chemical, geological, and ecological characteristics that affect marine life. Emphasis on local fauna and estuarine species. Four credit hours.

BIOL 3550 Oceanography I: Marine Biology
Prerequisite: eight credit hours of biological science. An overview of biological oceanography with emphasis on organisms, habitats, and fisheries of the Mississippi Sound and the Gulf of Mexico. Five credit hours.

BIOL 4151, 4251, 4351 Special Problems in Marine Science
Prerequisites: to be set by problem director. Special problems are research oriented, and grades are based on reports submitted by students. Students who want to take a special problems course must submit a brief proposal of planned study to the GCRL registrar. Special problems proposal forms are available from the GCRL registrar. This proposal must be approved by the student’s UALR advisor and the GCRL staff member directing the study. One, two, or three credit hours.

BIOL 4352 Coastal Vegetation
Prerequisite: 10 hours of biology including general botany. A broad study of the general and specific aspects of coastal vegetation, with emphasis on local examples such as tidal marshes, swamps, savannas, woodlands, strand and island (insular) vegetation, and certain unique and peculiar areas. Vegetation composition, variation, succession, climax, and distribution, including survey and descriptive methods. Aerial techniques, ground truth, plant identification, delineation of vegetation types, and mapping. Three credit hours.

BIOL 4450 Marine Botany
Prerequisite: 10 credit hours of biology, including botany. A survey, based on local examples, of the principal groups of marine algae and marine flowering plants, treating structure, reproduction, distribution, identification, and ecology. Four credit hours.

BIOL 4451 Comparative Histology of Marine Organisms
Prerequisites: general histology, consent of instructor. A detailed study of the histological organization of representative marine organisms. Fixation, processing, and study of tissues using light microscopy, transmission electron microscopy, and scanning electron microscopy. The relationship between structural changes and physiological changes during life cycle of organism. Histopathology with respect to tissue responses to infection and damage by toxic agents. Four credit hours.

BIOL 4452 Marine Fisheries Management
Prerequisite: 16 hours of biological science or consent of instructor. Practical marine fishery management problems. Trends in human population numbers, aggregations, and life styles with associated environmental impacts and resource allocation implications, which pose complex problems for fishery management scientists and administrators. International and local legal, political, social, and economic factors, as well as biological potential, must be considered in making rational decisions toward achieving optimum yield from marine fishery resources. The history of management scheme successes and failures, sources of information, and the current status of fishing technology, mariculture, management methods, legal problems, and educational needs will be explored. Four credit hours.
BIOL 4453 Behavior and Neurobiology of Marine Animals  
Prerequisite: 16 credit hours of zoology or consent of instructor.  
Survey of behavior, neuroanatomy, and neurophysiology of marine animals with emphasis on the neural mechanisms underlying the behavior of selected invertebrates, fishes, birds, and mammals. Introduction to the experimental study of the behavior of marine animals in the field and laboratory. When possible, students will carry out independent studies on local species. Neural mechanisms underlying behavior; the anatomy and physiology of the nervous systems of marine invertebrates and vertebrates. Four credit hours.

BIOL 4454 Fauna and Faunistic Ecology of Tidal Marshes  
Prerequisite: 16 credit hours of biological science or consent of instructor. Survey and discussion of the taxonomy, distribution, trophic relationships, reproductive strategies, and adaptation of tidal marsh animals with emphasis on those occurring in northern Gulf marshes. Four credit hours.

BIOL 4455 Early Life History of Marine Fishes  
Prerequisites: ichthyology, fisheries, biology, ecology, or consent of instructor. Reproductive strategies and early developmental processes of marine fishes. Includes discussion of temporal and spatial distribution patterns, population dynamics, and ecological interactions of fish eggs and larvae; role of early stages of fishes in fisheries oceanography, marine ecology, and systematics; methods of sampling and identifying fish eggs and larvae; data quantification and analysis; rearing experiments; techniques for studying larval fish dynamics. Four credit hours.

BIOL 4456 Salt Marsh Plant Ecology  
Prerequisites: general botany, plant taxonomy, plant physiology, general ecology, or consent of instructor. Botanical aspects of local marshes. Plant identification, composition, structure, distribution, and development of coastal marshes. Biological and physical interrelationships. Primary productivity and relation of marshes to estuaries and associated fauna. Four credit hours.

BIOL 4550 Marine Microbiology  
Prerequisites: general microbiology, consent of instructor. Introduction to marine microorganisms and pertinent literature sources. The role of microorganisms in the ecology of oceans and estuaries is stressed. Use of laboratory sampling equipment, methods of processing samples, and laboratory techniques useful in studying marine microorganisms. Five credit hours.

BIOL 4551 Marine Ecology  
Prerequisite: 16 credit hours of biological science including general zoology, general botany, and invertebrate zoology. A consideration of the relationship of marine organisms to their environment. The effects of temperature, salinity, light, nutrient concentration, currents, food, predation, and competition on the abundance and distribution of marine organisms are considered. Five credit hours.

BIOL 4650 Marine Invertebrate Zoology  
Prerequisites: 16 credit hours of zoology, including an introductory course in invertebrate zoology. A concentrated study of the important free-living marine and estuarine invertebrates of the northeastern Gulf of Mexico, with emphasis on the structure, classification, phylogenetic relationships, larval development, and functional processes. Six credit hours.

BIOL 4651 Marine Vertebrate Zoology and Ichthyology  
Prerequisites: 16 credit hours of zoology including comparative morphology or consent of instructor. A general study of the marine chordata, with emphasis on fish including lower groups, mammals, and birds. Groups of vertebrates occurring in the area associated with marine environments, with taxonomic characteristics used in their classification and identification, and with functional adaptations of the organisms. Greatest emphasis is placed on local fishes. For obvious reasons, no conscious attempt is made to duplicate material which could be offered with ease to the student at his or her home institution. Every effort is made to take advantage of the unique teaching situation that the area provides. Six credit hours.

BIOL 4652 Parasites of Marine Animals  
Prerequisites: general parasitology or consent of instructor. A study of the parasites of marine and estuarine animals with emphasis on morphology, taxonomy, life histories, and host-parasite relationships. Six credit hours.

BIOL 4653 Aquaculture  
Prerequisites: 16 credit hours of biology, including invertebrate zoology, natural history of vertebrates, or ichthyology. A review of the technology, principles, and problems relating to the science of aquaculture, with emphasis on the culture of marine species. Six credit hours.

UAMS Molecular Biotechnology Courses  
(BIOM)

BIOM 3210 Laboratory Principles and Techniques  
Prerequisite: admission to the professional program in medical technology or molecular biotechnology. Introduction to principles and techniques used in clinical and research laboratories. Emphasis on laboratory mathematics, safe practices, and basic instrumentation. Two hours lecture per week. Two credit hours.

BIOM 3211 Introduction to Research  
Prerequisite: admission to the professional program in medical technology or molecular biotechnology. How to design, conduct, and interpret life science research including planning biomedical research, the principles of statistical design, sample size estimation, and designs in life science research. Also includes the correspondence between objectives, design and analysis. Two lecture hours per week. Two credit hours.

BIOM 4106 Technology Transfer  
Prerequisites: admission to the professional program in molecular biotechnology and UALR BIOL 4417 and BIOL 4418. Overview of the conversion from research to manufacturing, including regulatory environment in which the production occurs. One hour lecture. One credit hour.

BIOM 4305 Cell Culture Principles and Techniques  
Prerequisites: admission to the professional program in molecular biotechnology and UALR BIOL 4417 and BIOL 4418. Introduction to principles and techniques of cell culture. Explores protocols for the culture, cloning, and selection of cells. Includes basic cell biology, growth characteristics and requirements, cell passing, and quantitation. Two hours lecture, three hours laboratory per week. Three credit hours.

BIOM 4507 Biotechnology Laboratory Internship  
Prerequisites: admission to the professional program in molecular biotechnology and UALR BIOL 4417 and 4418. Supervised experience in a biotechnology research laboratory. Emphasis on manual and automated techniques and development of professional behavior. Includes research principles and techniques, laboratory organization, and materials management. Twenty clinic hours per week. Five credit hours.
Environmental Health Sciences
Fribourgh Hall, Room 406C, (501) 569-3501, (501) 569-3271 (fax)
Director: Carl R. Stapleton, Associate Professor

The Bachelor of Science in Environmental Health Sciences program is designed to prepare students for a broad range of career opportunities in the environmental profession. With a total of 22 hours of approved electives, students can focus on their individual career objective. Although the curriculum prepares students to be immediately competitive for environmental employment upon graduation, it also emphasizes research and creates a foundation for those seeking graduate degrees in the environmental field. Employment opportunities are available both in the public and private sectors. Courses within the curriculum emphasize development of environmental skills in both field and laboratory settings. These environmental skills include permitting, impact analysis, restoration ecology, sampling, computer modeling, epidemiology, planning, energy analysis, toxicology, risk assessment, research methods, information dissemination, and best management practices. Both cooperative education and internship experiences are available for majors. A student chapter of the National Association of Environmental Professionals provides opportunities for professional growth and community service involvement.

General Information

Admission Requirements
To major in Environmental Health Sciences, a student must have completed a minimum of 15 credit hours at the University of Arkansas at Little Rock with a cumulative GPA of 2.00 or better and must have completed both ENHS 2320 and ENHS 2120 with a grade of “C” or better. Any decisions concerning environmental health sciences course equivalencies will be made by the Program Director.

Combined Major-Minor in Environmental Health Sciences and Biology
The B.S. degree in Environmental Health Sciences is a combined major-minor in Environmental Health Sciences and Biology. Therefore, a minor is not required for the Environmental Health Sciences major, but a separate minor can still be selected.

Requirements for the Environmental Health Sciences major include the following:
- Basic Sciences – 37 credit hours;
- Core – 11 credit hours;
- Environmental Media – 6 credit hours;
- Environmental Analysis and Risk Assessment – 8 credit hours;
- Biology Electives (Approved) – 8 credit hours; and
- General Electives (Approved) – 14 credit hours.

Minor in Environmental Health Sciences
A minor in Environmental Health Sciences requires 18 credit hours, including ENHS 2320, Introduction to Environmental Health Sciences, ENHS 2120, Introduction to Environmental Health Sciences Laboratory, and ENHS 3310, Environmental Regulations. A grade of “C” or better is required for both ENHS 2320 and ENHS 2120 prior to enrollment in any upper-level ENHS courses. The remaining 11 credit hours are course electives from the ENHS program. Elective hours must be approved by the Program Director. Some environmental health sciences elective courses may require completion of prerequisites other than ENHS 2320, ENHS 2120, and ENHS 3310.

Bachelor of Science in Environmental Health Sciences

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit (See page 25 for requirement details.)

Core (44 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (84 hours)

ENHS Foundation Requirements (11 hours)
ENHS 2320 Intro Environmental Health Sciences
ENHS 2120 Intro Environmental Health Sciences Lab
ENHS 3310 Environmental Regulations
ENHS 4389 Research in Environmental Health Sciences
ENHS 4190 Seminar in Environmental Health Sciences

Environmental Media (6 Hours)
Select Two Courses
ENHS 3350 Principles of Air Pollution
ENHS 3340 Intro Water Resources Management
BIOL 4314/5314 Soil Biology

Environmental Analysis & Risk Assessment (8 Hours)
Select Two Courses
ENHS 4415/5415 Environmental Impact Analysis
ENHS 4410/5410 Environmental Planning
ENHS 4430/5430 Epidemiology: Environment and Health

Basic Science Foundation Requirements (37 hours)
BIOL 1400 Evolutionary and Environmental Biology
or BIOL 1401 Science of Biology
BIOL 2401 Microbiology
BIOL 2402 Botany
or BIOL 2403 Zoology
BIOL 3303/3103 Principles of Ecology w/Lab

Chemistry (12 hours)
CHEM 1400 Fundamental Chemistry I
or 1402 General Chemistry I
CHEM 1401 Fundamental Chemistry II
or 1403 General Chemistry II
CHEM 2450 Organic Survey
or CHEM 3150/3350 General Organic Chemistry I with lab
PHYS 1321 Elementary Physics I
STAT 2350 Intro Statistical Methods
CPSC 1370 Computer Literacy

Approved Electives (14 hours)

Recommended Courses
ERSC 4421 Intro to Geographic Information Systems (GIS)
ERSC 4422 Applied GIS
RHET 3326 Technical Writing
PSYC 3308 Urban Environmental Psychology

Other Courses by Approval of Program Director Required

Approved Biology Electives (8 Hours)

Recommended Courses
BIOL 3400 Developmental Biology
BIOL 3408
BIOL 4402 Limnology
BIOL 4406 Pathogenic Microbiology
BIOL 4413 Immunology
BIOL 4424 Entomology

Other Courses by Approval of Program Director Required

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Courses in Environmental Sciences (ENHS)

ENHS 2320 Introduction to Environmental Sciences
Prerequisites: BIOL 1401 or BIOL 1400, MATH 1302, CPSC 1370. This course is designed to provide individuals with the basic elements of Environmental Health Sciences. Lectures will be presented concerning environmental media assessment, water supplies, water quality, air pollution, environment and energy relationships, land use, and environmental impact analysis. Three hours lecture per week. Three credit hours.

ENHS 2120 Introduction to Environmental Health Sciences Laboratory
Prerequisite or Corequisite: Completion of ENHS 2320 with a grade of “C” or better or consent of the instructor and concurrent enrollment in ENHS 2320. The introduction to environmental Health Sciences laboratory will emphasize experiments, field-based data collection and analysis methods, computer exercises, and laboratory methods. Two hours laboratory per week. One credit hour.

ENHS 3310 Environmental Regulations
Prerequisite: ENHS 2320 or equivalent. The basis for regulation of environmental pollutant sources and natural resources. The environmental litigation process is reviewed with reference to appropriate federal, state, and local regulations. Case studies will be used to supplement class lectures. Three hours lecture per week. Three credit hours.

ENHS 3340 Introduction to Water Resources Management
Prerequisites: ENHS 2320, CHEM 1403, BIOL 2401, MATH 1302, or the equivalents. Concepts related to the management of surface and ground water resources; sources of environmental pollutants, sampling methods and pollution control alternatives; the application of computers to water resource management problems. Three hours lecture per week. Three credit hours.

ENHS 3350 Principles of Air Pollution
Prerequisites: ENHS 2320, CHEM 1403, MATH 1302, or the equivalents. The principles of air quality monitoring, air pollution transport and control methods; effects of air pollutants on health and natural resources; dispersion modeling techniques. Three hours lecture per week. Three credit hours.

ENHS 3391 Cooperative Education in Environmental Health Sciences
Prerequisites: junior standing, consent as an environmental Health Sciences major, minimum GPA of 2.50, and consent of program director. Cooperative education seeks to integrate academic and professional work experiences. Students will be placed in a work setting consistent with their environmental education career objectives. This course requires a minimum of 200 semester work hours. Three credit hours.

ENHS 4189, 4289, 4389 Research in Environmental Health Sciences
Prerequisites: senior standing, consent of instructor. For students who want to carry out individual research. The student is expected to spend two to four hours per week on the project for each hour of credit earned. The exact hourly commitment per week will depend on the nature of the project and will be agreed on in advance by the student and the instructor. One, two, or three credit hours.

ENHS 4190 Seminar in Environmental Health Sciences
Prerequisites or corequisites: ENHS 2320, 4415, senior standing, consent of instructor. Discussions of current and emerging environmental Health Sciences problems. One hour of discussion per week. One credit hour.

ENHS 4320 Introduction to Industrial Hygiene
Prerequisites: ENHS 3310, CHEM 2450 or 3350 and 3150, MATH 1302, or the equivalents. Recognition, evaluation, and control methods for environmental hazards in the workplace; instrumentation techniques for personal and ambient sampling. Regulations appropriate to industrial hygiene are reviewed for various work settings. Three hours lecture per week. Three credit hours.

ENHS 4391 Cooperative Education in Environmental Health Sciences
Prerequisites: junior standing, major in Environmental Health Sciences, minimum GPA of 2.50, minimum of one semester of ENHS 3391, and consent of program director. Cooperative education seeks to integrate academic and professional work experiences. Students will be placed in a work setting consistent with their environmental education career objectives. This course requires a minimum of 200 semester work hours. Three credit hours.

ENHS 4199-4399 Special Topics in Environmental Health Sciences
Prerequisite: senior standing as Environmental Health Sciences major or consent of instructor. Topics include specialized areas of Environmental Health Sciences. Credit will vary and will be appropriate for both advanced undergraduate and graduate students. Dual-listed in the UALR Graduate Catalog.

ENHS 4410 Environmental Planning
Prerequisite: ENHS 3310 or the equivalent. Environmental planning process and evaluation methods applicable to environmental programs; resource allocation and procurement; emphasis on environmental planning case studies including watershed planning, land use, solid and hazardous waste, air quality, wastewater treatment facilities planning, wetlands, and master planning. Group discussions and role-playing exercises will supplement class lectures. Dual-listed in the UALR Graduate Catalog as ENHS 5410. Three hours lecture, two hours laboratory per week. Four credit hours.

ENHS 4415 Environmental Impact Analysis
Prerequisites: ENHS 3340 or 3350, RHET 3316, BIOL 3303 and 3103, STAT 2350, or consent of instructor. Knowledge and skills necessary to prepare and review environmental impact assessments and statements. The content of the National Environmental Policy Act is presented and analyzed. Case studies and group discussions are used to supplement class lectures. Field studies are performed on a selected site for which an environmental impact assessment will be written. Dual-listed in the UALR Graduate Catalog as ENHS 5415. Three hours lecture, two hours laboratory per week. Four credit hours.

ENHS 4430 Environmental Epidemiology
Prerequisites: ENHS 3340 or 3350, BIOL 2401, STAT 2350, or consent of instructor. The principles of environmental epidemiology are introduced with emphasis on application to various environmental settings. A brief introduction to vital statistics is provided. Health effects of various environmental agents will be identified with appropriate indicators and epidemiological methods for Environmental Health Sciences professionals to monitor environmental effects. Dual-listed in the UALR Graduate Catalog as ENHS 5430. Three hours lecture, two hours laboratory per week. Four credit hours.

ENHS 4295-4695 Internship in Environmental Health Sciences
Prerequisites: Senior standing, consent of instructor. Supervised internship with state, local, and federal agencies and industries concerned with environmental programs. Forty clock hours per hour of credit. Two, three, four, five, or six credit hours.
BS Degree in Environmental Health Sciences

Combined Major-Minor (Environmental Health Sciences and Biology)

Recommended Curriculum Sequence

First Semester (16 credit hours)
RHET 1311 Composition I (3 hours)
MATH 1302 College Algebra (3 hours)
HIST 1311 History of Civilization I (3 hours)
BIOL 1400 Evolutionary and Environmental Biology
or BIOL 1401 Science of Biology (4 hours)
CPSC 1370 Computer Literacy (3 hours)

Second Semester (14 credit hours)
RHET 1312 Composition II (3 hours)
SPCH 1300 Speech Communication (3 hours)
CHEM 1400 Fundamental Chemistry I
or CHEM 1402 General Chemistry I (4 hours)
ENHS 2320 Introduction to Environmental Health Sciences (3 hours)
ENHS 2120 Introduction to Environmental Health Sciences Laboratory (1 hour)

Third Semester (17 credit hours)
HIST 1312 History of Civilization II (3 hours)
PHYS 1321 Elementary Physics I (3 hours)
CHEM 1401 Fundamental Chemistry II
or CHEM 1403 General Chemistry II (4 hours)
ENHS 3310 Environmental Regulations (3 hours)
BIOL 2402 Botany
or BIOL 2403 Zoology (4 hours)

Fourth Semester (17 credit hours)
STAT 2350 Statistical Methods (3 hours)
BIOL 2401 Microbiology (4 hours)
ENHS 3340
or ENHS 3350
or BIOL 4314 (3 hours)
BIOL 3303 and BIOL 3103 Ecology Lecture and Laboratory (4 hours)
ARHA 2305 Art History
or THEA 2305 Introduction to Theater
or MUHL 2305 Introduction to Music (3 hours)

Fifth Semester (14 credit hours)
CHEM 2450 Organic Survey
or CHEM 3350 General Organic Chemistry I and CHEM 3150 General Organic I Lab (4 hours)
General Elective (3 hours)
ENHS 4415 Environmental Impact Analysis
or ENHS 4410 Environmental Planning
or ENHS 4430 Epidemiology: Environment and Health (4 hours)
POLS 1310 American National Government
or HIST 2311
or HIST 2312 (3 hours)

Sixth Semester (14 credit hours)
BIOL Elective (4 hours)
General Elective (3 hours)
SOCI 2300 Introduction to Sociology (3 hours)
ENHS 4415 Environmental Impact Analysis
or ENHS 4410 Environmental Planning
or ENHS 4430 Epidemiology: Environment and Health (4 hours)

Seventh Semester (14 credit hours)
PSYC 2300 Introduction to Psychology (3 hours)
General Elective (4 hours)
BIOL Elective (4 hours)
ENHS 4389 Research in Environmental Health Sciences (3 hours)

Eighth Semester (14 credit hours)
ENHS 3340
or ENHS 3350
or BIOL 4314 (3 hours)
ENHS 4190 Seminar in Environmental Health Sciences (1 hour)
General Elective (4 hours)
ARHA 2305 Art History
or THEA 2305 Introduction to Theater
or MUHL 2305 Introduction to Music (3 hours)
ENGL 2337
or ENGL 2338
or PHIL 2320 (3 hours)
The department is organized with the following objectives in view:
1. to increase the general cultural background of all students;
2. to prepare chemistry majors for graduate study, industrial work, or positions with professional ratings in government service;
3. to provide the basic training for professional students in medicine, dentistry, engineering, pharmacy, and other professional fields; and
4. to prepare high school chemistry teachers.

The department’s bachelor of science degree is certified by the American Chemical Society (ACS). Students earning this degree will be certified to the ACS for full membership on graduation.

The department sponsors a student affiliate chapter of the ACS. Any student enrolled in a program of study leading to a bachelor’s degree in chemistry or a related discipline is eligible for membership. The chapter serves as a focal point for those interested in the field of chemistry and offers them opportunities for practical experience and professional contacts.

General Information

Admission Requirements
The department welcomes students to the bachelor of arts (BA) and bachelor of science (BS) programs of study who express an interest, demonstrate an aptitude, and are dedicated to pursue excellence in their studies. Most applicants will have at least a 2.00 cumulative grade point average in their college work. They will have earned a grade of C or greater in College Algebra, its equivalent, or a more advanced mathematics course. They will have earned grades of B or greater in CHEM 1400 & 1401 or equivalents, or a grade of C or greater in CHEM 1402 or equivalent. Aptitude and dedication can also be demonstrated by presenting exceptional science and mathematics preparation in high school.

Honors Program in Chemistry
The department also offers an honors program in chemistry. To graduate with honors a student must
• maintain an overall grade point average of 3.20 or greater,
• maintain a grade point average of 3.20 or greater in chemistry courses,
• complete at least four credit hours of a faculty-directed laboratory research project and present the findings in a scientific meeting or departmental seminar, and
• meet ACS certification requirements.

Major in Chemistry
The BS in chemistry requires at least 34 hours in chemistry above the freshman level including: CHEM 2310, 2311, 3150, 3170, 3171, 3250, 3340, 3350, 3351, 3370, 3371, 4190, 4340, and 4411. Required courses outside of the chemistry department are PHYS 2321, 2121, 2322, 2122, and MATH 1451, 1452, 2453. Additional requirements for ACS certification are: six credit hours of advanced chemistry courses to include CHEM 4420 Biochemistry, two hours of undergraduate research, and a three-hour upper-level mathematics course. A second language or a computer language is encouraged but not required. A minor is not required for this curriculum.

The BA in chemistry is offered for premedical and predental students, secondary teachers, and others. Requirements for this degree include the Core Requirements, Second Language Proficiency, 26 hours above the freshman level including CHEM 2310, 2311, 3150, 3151, 3340, 3350, 3351, 3572, 4190, and three hours of upper-level chemistry electives. Required courses in Physics are PHYS 1321, 1121, 1322, 1122. MATH 1451 is the only required mathematics courses, but one or two semesters of calculus are strongly recommended. A minor in biology is recommended for this program.

Secondary Teacher Licensure in Science Education
This concentration is designed to prepare students for certification in secondary education. Chemistry is the major emphasis and this program meets the requirements for a BA in chemistry. Earth sciences is the secondary emphasis as prescribed by Arkansas law. A minor in secondary education is required. For additional information review see “Secondary Teacher Licensure.” For freshmen and sophomores who are interested or think they may be interested in teaching, please see the UALRTeach web site or email ualrteach@ualr.edu to obtain information on the introductory one-hour courses, steps 1 and 2.

Minor in Chemistry
A minor in chemistry requires a minimum of 22 hours, to include CHEM 1402, CHEM 1403, CHEM 2310, CHEM 2311 or CHEM 4420, CHEM 3350, CHEM 3150, CHEM 3351, and CHEM 3151 or equivalent courses.

Transfer Students
Transfer students must meet all degree requirements. In addition, transfer students must successfully complete at UALR a minimum of six hours of upper-level chemistry courses for a major in chemistry or three hours of upper-level chemistry courses for a minor in chemistry.
Options in Freshman Chemistry

Students planning to enroll in CHEM 1402 must meet the minimum score on a placement exam. The placement exam may be offered on-line so students can take it prior to attempting to enroll in CHEM 1402. The department’s website, ualr.edu/chemistry/ has information on how to take the exam.

Students who have had two units of high school algebra and high school chemistry and meet the minimum score on the chemistry placement test should start with CHEM 1402 and 1403.

Students who have had no high school chemistry and have a weak high school mathematics background but are interested in a pre-professional or science degree should take CHEM 1300, 1402, and 1403.

Students whose major field requires only eight hours of freshman chemistry should take CHEM 1400 and 1401. This sequence will prepare a student to take CHEM 2450 Organic Survey, but not other upper-level chemistry courses.

Graduate Programs

The department also offers the master of arts and the master of science degrees in chemistry and cooperates with the Department of Applied Science in offering the applied science Ph.D. in applied chemistry. Consult the UALR Graduate Catalog for a description of these programs, as well as policies governing UALR graduate programs.

Academically talented undergraduate chemistry students may schedule courses on an accelerated basis and enroll in selected graduate courses in their senior year. Students may receive a master’s degree one year after completing the BS degree. This program is an option only for students who have excellent academic records for the first three years of undergraduate study and have completed the suggested 108 hours of undergraduate work through the junior year. Permission for early enrollment in graduate courses in the senior year must be obtained from the dean of the Graduate School on recommendation of the department chairperson. Students registered for graduate credit in dual-listed (4000/5000) courses are responsible for additional assigned work. Details of the bachelor’s/master’s program, including a suggested five-year sequence, are available from the chemistry department office.

The Bachelor of Science in Chemistry is an American Chemical Society Certified Degree

Bachelor of Science in Chemistry

General: 120 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)

See page 25 for requirement details. (Completion of CHEM 1402/1403 in the chemistry major, 4-hours of lab science core requirement also met.)

Second Language Proficiency (none required)

Major (71 hours)

Chemistry Foundation Courses (48 hours)

CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
CHEM 2310 Analytical Chemistry I
CHEM 2311 Analytical Chemistry II
CHEM 3350 Organic Chemistry I -Lecture
CHEM 3150 Organic Chemistry Lab- I
CHEM 3351 Organic Chemistry II-Lecture
CHEM 3250 Qualitative Organic Chemistry Lab
CHEM 3370 Physical Chemistry I-Lecture
CHEM 3371 Physical Chemistry II- Lecture
CHEM 3170 Physical Chemistry I - Lab
CHEM 3171 Physical Chemistry II-Lab
CHEM 3340 Introduction to Inorganic Chemistry
CHEM 4340 Inorganic Chemistry
CHEM 4411 Instrumental Analysis
CHEM 4190 Chemistry Seminar
CHEM 4420 Biochemistry I
CHEM 4289 Undergraduate Research

Supporting Courses (23 hours)

PHYS 2321 Physics for Scientists and Engineers I-Lecture
PHYS 2121 Physics for Scientists and Engineers I - Lab
PHYS 2322 Physics for Scientists and Engineers II- Lecture
PHYS 2122 Physics for Scientists and Engineers II - Lab
MATH 1451 Calculus I
MATH 1452 Calculus II
MATH 2453 Calculus III

Minor (None required)

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Arts in Chemistry

General: 120 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)

See page 25 for requirement details. (Completion of CHEM 1402/1403 in the chemistry major, 4-hours of lab science core requirement also met.)

Second Language Proficiency (0-9 hours)

Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (46 hours)

Chemistry Foundation Courses (34 hours)

CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
CHEM 2310 Analytical Chemistry I
CHEM 2311 Analytical Chemistry II
CHEM 3350 Organic Chemistry I -Lecture
CHEM 3150 Organic Chemistry Lab- I
CHEM 3351 Organic Chemistry II-Lecture
CHEM 3315 Organic Chemistry II-Lecture
CHEM 3151 Organic Chemistry Lab - II
CHEM 3572 Physical Chemistry for Life Sciences
CHEM 3340 Introduction to Inorganic Chemistry
CHEM 4190 Chemistry Seminar
CHEM Elective - 3 hours upper-level courses (3000 level or higher)
Bachelor of Arts in Chemistry
Secondary Education Track

General: 120 total hours, including 45 hours of upper-level courses (3000–4000 level), and 30 hours in residence.

First-Year Colloquium (0–3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (Completion of CHEM 1402/1403 in the chemistry major, 4-hours of lab science core requirement also met.)

Second Language Proficiency (0–9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Major (47 hours)
Chemistry Foundation Courses (35 hours)
CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
CHEM 2310 Analytical Chemistry I
CHEM 2311 Analytical Chemistry II
CHEM 3350 Organic Chemistry I -Lecture
CHEM 3150 Organic Chemistry Lab- I
CHEM 3351 Organic Chemistry II-Lecture
CHEM 3151 Organic Chemistry Lab -II
CHEM 3572 Physical Chemistry for Life Sciences
CHEM 3340 Introduction to Inorganic Chemistry
CHEM 4190 Chemistry Seminar
IGSC 4401 Integrated Science Methods

Supporting Courses (12 hours)
PHYS 1321 Elementary Physics I -Lecture
PHYS 1322 Elementary Physics II- Lecture
PHYS 1121 Elementary Physics I - Lab
PHYS 1122 Elementary Physics II - Lab
MATH 1451 Calculus I

Minor - Secondary Education Courses (18 hours)
SCED 3210 Instructional Skills and Assessment*
SCED 3110 Instructional Skills Practicum*
SCED 4321 Teaching Diverse Adolescents*
SCED 4122 Adolescent Diversity Practicum*
SCED 4123 Adolescents with Special Needs*
SCED 4124 Classroom Management*
TCED 4600 Student Teaching*
SCED 4330 Reflective Teaching*
* Praxis I must be passed before enrolling in SCED or TCED courses. GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to graduating.

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000–4000 level), or 30 hours in residence.

Courses in Chemistry (CHEM)

CHEM 1100 Special Topics in the Laboratory for Transfer Students
Prerequisite: Grade of C or greater from another university in a class with lecture equivalent to CHEM 1400, CHEM 1401, CHEM 1402, or CHEM 1403. Intended for transient and transfer students who passed a lecture class without the accompanying laboratory. One three-hour laboratory session per week. One credit hour.

CHEM 1300 Preparation for General Chemistry
Prerequisite or corequisite: MATH 1302. The class prepares students to take the placement examination required to enroll in CHEM 1402. The class is for students who need to sharpen mathematical, problem-solving, and critical thinking skills while developing chemical knowledge. There will be frequent and comprehensive assessments of learning. The class cannot be combined with CHEM 1100 to satisfy four hours of the laboratory science requirement in the core curriculum. Three hour-long lectures per week. Three credit hours.

CHEM 1305 Science Skills
Prerequisite: Permission of the instructor. This course will help biology, chemistry, and earth science students reach their educational objectives. Interactive instructional methods promote the development of skills that lead to success in college and a successful career in science. Students I) identify and use appropriate campus resources, 2) master common computer programs, 3) learn graphing and statistical methods, 4) develop better strategies to manage money, time, and stress wisely, and 5) explore the research conducted by UALR science faculty. Grading is based on projects, attendance, and participation. This course cannot be used for credit toward a biology, chemistry, or earth science major or minor. Three credit hours.

CHEM 1400 Fundamental Chemistry I
Prerequisite: MATH 1302 with a grade of C or greater. The first in a two-course sequence designed to introduce students in the health related professions (nursing, dental hygiene, physical therapy, respiratory therapy…) to nomenclature, stoichiometry, measurement, periodicity, molecular structure, states of matter, energy, nuclear chemistry and redox and acid/base equilibria. Completing the two-course sequence qualifies students to enroll in CHEM 2450 but no other chemistry classes. This class meets ACTS criteria. Three hour long lectures and one three-hour long laboratory session per week. Four credit hours. (ACTS Course Number CHEM 1214)

CHEM 1401 Fundamental Chemistry II
Prerequisite: CHEM 1400 with a grade of C or greater. The class continues to build upon the knowledge foundation in chemistry and introduces organic nomenclature, functional group reactions, properties of carbohydrates, lipids, proteins, nucleic acids, and enzymes and principles of metabolism. Completing the course qualifies students to enroll in CHEM 2450 but no other chemistry classes. This class meets ACTS criteria. Three hour long lectures and one three-hour long laboratory session per week. Four credit hours. (ACTS Course Number CHEM 1224)

CHEM 1402 General Chemistry I
Prerequisite: MATH 1302 or higher level class, with a grade of C or greater. Students must also attain the minimum score on a placement examination to qualify for enrollment in CHEM 1402. Students who do not attain the minimum score may enroll in CHEM 1300. Finishing CHEM 1300 does not substitute for meeting the minimum score on the placement examination. The class builds upon a knowledge foundation in chemistry and offers inquiry into topics of scientific measurement, chemical nomenclature, expressing qualitative and quantitative statements about chemical reactions, qualitative atomic theory, electronic and molecular structure models, chemical periodicity, thermochemistry, gases, kinetic molecular theory, and nuclear chemistry. The class is designed for chemistry majors and others needing rigorous instruction. It meets ACTS criteria. Three hour-long lectures and one three-hour laboratory session per week. Four credit hours. (ACTS Course Number CHEM 1414)
CHEM 1403 General Chemistry II
Prerequisite: CHEM 1402 with a grade of C or greater. The class continues to build upon the knowledge foundation in chemistry and offers inquiry into topics of chemical equilibrium including acids and bases, and sparingly soluble salts, thermodynamics, kinetics, electrochemistry, and coordination compounds. It meets ACTS criteria. Three hour-long lectures and one three-hour laboratory session per week. Four credit hours. (ACTS Course Number CHEM 1424)

CHEM 1406 General Chemistry for Engineers
This course is designed for Engineering Students. This one semester chemistry course will give engineering students key concepts and principles in chemistry needed for their basic background knowledge. This course is presented using engineering relevant examples and stresses applications in engineering and technology. Consult your advisor for more information. Note: Course Requirements. Consent of Instructor is required. This course has a prerequisite of 70 or higher score on a department placement test. Students who do not attain the minimum score may enroll in CHEM 1300. MATH 1311 Applied Calculus I, or MATH 1342 Business Calculus, or MATH 1451 Calculus I are prerequisite concurrent. Students completing 1406 and changing majors to chemistry may substitute CHEM 1406 for CHEM 1402. Students may not receive credit for both 1402 and 1403 by completing 1406. Three hour-long lectures and one three-hour laboratory session per week. Four credit hours.

CHEM 1409 Chemistry and Society
The class develops a base of chemical knowledge for students to consider the impact chemistry has on the world while meeting the goals of the University’s core curriculum competencies in critical thinking, ethical and moral consciousness, historical conscience, and professional ethics. Mathematics, science and public policy. The class satisfies four hours of the University’s laboratory science curriculum requirement and meets ACTS criteria. Three hour-long lectures and one three-hour laboratory session per week. Four credit hours. (ACTS Course Number CHEM 1004)

CHEM 2310 Analytical Chemistry I
Prerequisite: CHEM 1403 with a grade of C or greater. The class investigates aqueous equilibrium systems including acid/base, complex species, solubility, and oxidation/reduction, statistical analysis of chemical data, classic titrimetric and gravimetric analysis, and laboratory report writing. Two hour-long lectures and one three-hour laboratory session per week. Three credit hours.

CHEM 2311 Analytical Chemistry II
Prerequisite: CHEM 2310 with a grade of C or greater. The class studies modern instrumental analysis and separation of chemical systems, to include electrochemical, spectroscopic and chromatographic methods. Two hour-long lectures and one three-hour laboratory session per week. Three credit hours.

CHEM 2450 Organic Survey
Prerequisite: CHEM 1401 or CHEM 1403 with a grade of C or greater. The class is appropriate for students needing a one-semester overview of organic chemistry. Topics include nomenclature, classification, synthetic pathways, and spectroscopy. Three hour-long lectures and one three-hour laboratory session per week. Four credit hours.

CHEM 3150 Organic Chemistry Laboratory I
Prerequisite or corequisite: CHEM 3350 with a grade of C or greater. Organic compounds will be prepared and identified. Techniques include determining melting and boiling points, simple fractional and steam distillation, re-crystallization, and extraction. One three-hour-long laboratory per week. One credit hour.

CHEM 3151 Organic Chemistry Laboratory II
Prerequisites or corequisites: CHEM 3351 and CHEM 3150 with grades of C or greater. This class continues to build the knowledge base of organic chemistry laboratory skills by introducing more advanced synthetic methodologies and characterization techniques including IR, NMR, MS and GC. BS chemistry majors should not enroll in this laboratory but in CHEM 3250. One three-hour-long laboratory per week. One credit hour.

CHEM 3170 Physical Chemistry Laboratory I
Prerequisites or corequisites: PHYS 2122, CHEM 3370 with a grade of C or greater. An introduction to multivariate statistical methods and error analysis. Experiments include synthesis of compounds, measurement of physical and electrochemical properties, determination of heats of reaction and reaction rates, and superconductivity studies. Laboratory three hours per week. One credit hour.

CHEM 3171 Physical Chemistry Laboratory II
Prerequisites: CHEM 2311, 3170, 3370 with a grade of C or greater. Prerequisites or corequisites: CHEM 3371. Synthesis of inorganic compounds together with measurement of quantum mechanical spectroscopic properties, magnetic susceptibility, and properties of macromolecules. Laboratory three hours. One credit hour.

CHEM 3250 Qualitative Organic Analysis Laboratory
Prerequisite: CHEM 3350 and CHEM 3150 with grades of C or greater. Organic compounds will be prepared and identified. Laboratory three hours. One credit hour.

CHEM 3340 Introduction to Inorganic Chemistry
Prerequisite: CHEM 2450 or 3350 with a grade of C or greater. A study of inorganic chemistry with emphasis on chemical bonding theories (both covalent and ionic molecules), periodic properties with isolation and synthesis associated with few main group elements, acid/base concepts, introduction to transition metals, coordination complexes (name, structures, isomers, chelate effects). Required for BA and BS majors. Lecture three hours per week. Three credit hours.

CHEM 3350 General Organic Chemistry I
Prerequisite: CHEM 1403 with a grade of C or greater. The first in a two-course sequence designed to introduce science students to organic compounds. Topics include nomenclature, alkenes, alkynes, halides, alcohols, ethers, functional groups, stereochemistry, acid-base concepts, organometallics, multiple-step synthesis, and reaction mechanisms, Three hour-long lectures. Three credit hours.

CHEM 3351 General Organic Chemistry II
Prerequisite: CHEM 3350 with a grade of C or greater. The class continues to build the knowledge base of organic chemistry by adding conjugated systems, aromatic compounds, carbonyl compounds, carboxylic acids and derivatives, amines, phenols, aryl halides, spectroscopy and data interpretation. Three hour-long lectures. Three credit hours.

CHEM 3370 Physical Chemistry: Thermodynamics and Kinetics
Prerequisites: CHEM 2311 with a grade of C or greater. Prerequisites or corequisites: MATH 1452, PHYS 2322. An introduction to theoretical chemistry to include the study of gases and condensed phases, phase changes, solutions, chemical reactions, and reaction rates. Lecture three hours per week. Three credit hours.

CHEM 3371 Physical Chemistry: Quantum and Statistical Mechanics
Prerequisites: CHEM 2311 with a grade of C or greater. Prerequisites or corequisites: MATH 2453, PHYS 2322. An introduction to theoretical chemistry to include the study of quantum and statistical mechanics of atomic and molecular systems. Lecture three hours per week. Three credit hours.

CHEM 3372 Physical Chemistry for the Life Sciences
Prerequisites: CHEM 2311, MATH 1451, PHYS 1322 and 1122 with a grade of C or greater. An introduction to theoretical chemistry, with emphasis on the application of physical laws to biochemical systems, such as purified proteins and nucleic acids. Topics include spectroscopic techniques, thermodynamics, and kinetics. Lecture three hours, recitation one hour, and laboratory three hours per week. Five credit hours.
CHEM 4190 Chemistry Seminar
Presentation of papers, discussion, analysis, and implications of experimental investigations in the natural sciences. Seminar serves as the capstone course for assessment. Required of senior chemistry majors in their final semester before graduation. One hour per week. One credit hour.

CHEM 4251 Organic Preparation
Prerequisite: CHEM 3151 or 3250 with a grade of C or greater. Advanced experiments in organic chemistry employing special apparatus and techniques. Dual-listed in the UALR Graduate Catalog as CHEM 5251. Two-three-hour laboratories per week. Two credit hours.

CHEM 4330 History of Chemistry
Prerequisite: CHEM 3350 with a grade of C or greater. This course is a survey of the growth and development of chemistry. Lectures will stress connections of modern chemistry to past chemists/scientists and how ideas are passed from generation to generation. The personality and human side of the scientists will be emphasized along with the interactions between science and society. Dual-listed in the UALR Graduate Catalog as CHEM 5330. Students who have completed CHEM 4330 may not enroll in CHEM 5330. Three credit hours.

CHEM 4340 Inorganic Chemistry
Prerequisites: CHEM 3340, 3371 with a grade of C or greater (the latter may be taken as a corequisite). A theoretical treatment of inorganic chemistry to include atomic structure, valence bond, molecular orbital and ligand field theories; the crystalline state; thermodynamic and kinetic aspects of transition metal chemistry. Laboratory will reinforce concepts developed in lecture. Required for the BS major. Dual-listed in the UALR Graduate Catalog as CHEM 5340. Lecture two hours and laboratory three hours per week. Three credit hours.

CHEM 4342 Environmental Chemistry
Prerequisites: CHEM 3350 and CHEM 2310 with a grade of C or greater. A survey of environmental chemistry. Topics covered will include: Composition of the atmosphere and behavior; energy and climate; principles of photochemistry and atmospheric chemistry; petroleum and coal chemistry and associated environmental problems; chemistries of soaps and surfactants; haloorganics and pesticides, water and air pollution (tropospheric and stratospheric) and connections to climate change; elemental and molecular environmental chemistry in geological media; water cycle and water treatment; principles of nuclear chemistry and radiochemistry; nuclear environmental chemistry; and evaluation of energy sources that are sustainable. Dual-listed in the UALR Graduate Catalog as CHEM 5342. Students who have completed CHEM 4342 may not enroll in CHEM 5342. Lecture three hours a week. Three credit hours.

CHEM 4350 Intermediate Organic Chemistry
Prerequisite: CHEM 3351 with a grade of C or greater. An elective course designed for students with special interests in organic chemistry who wish exposure to additional concepts beyond those covered in CHEM 3350, 3351. Dual-listed in the UALR Graduate Catalog as CHEM 5350. Lecture three hours per week. Three credit hours.

CHEM 4360 Medicinal Chemistry
Prerequisites: CHEM 3351; and CHEM 3150 and CHEM 3151, or CHEM 3250; all with grades of C or greater. This course will serve as an introduction to the chemistry and theory of drug action that includes general drug design, drug-receptor interactions, drug design through enzyme inhibition, pharmacokinetics, and drug metabolism. Additionally the mechanism of specific drug classes will be examined. This course cannot be used as a substitute for the biochemistry requirement of the ACS certified degree. Dual-listed in the UALR Graduate Catalog as CHEM 5360. Lecture three hours per week. Three credit hours.

CHEM 4380 Introduction to Polymer Chemistry
Prerequisite: CHEM 3351, 3151 or 3250 with a grade of C or greater Other courses recommended but not required are CHEM 3370, 3371, 3170, 3171, and 3572. Theoretical and practical aspects of polymer chemistry will be coordinated. Topics include history, types of polymerizations, kinetics, molecular weight, physical properties including thermal and spectroscopic characterization, biopolymers and engineering resins. Dual-listed in the UALR Graduate Catalog as CHEM 5380. Lecture two hours, laboratory three hours. Three credit hours.

CHEM 4399 Special Topics in Chemistry
Prerequisite: consent of instructor. A course for students interested in acquiring additional knowledge in selected topics in chemistry. Possible subjects include: chemical carcinogenesis, environmental chemistry, solid state chemistry, radiochemistry, macromolecules, surface chemistry, quantum chemistry, or others. Dual-listed in the UALR Graduate Catalog as CHEM 5399. Lecture three hours per week. Three credit hours.

CHEM 4400, 4200, 4300, 4400 Independent Study
Prerequisites: junior or senior standing, consent of the chairperson. Designed for students who want to carry out special investigations, which could include chemical education research or directed study of a specialized chemical topic of interest to the student. Topic and method of procedure must have approval of the supervising faculty member. Frequent conferences with the instructor and a study of chemical literature with a final written report are required. The student is expected to spend four to six hours per week on the project for each hour of credit earned. The exact hourly commitment per week will depend on the nature of the project and will be agreed on in advance by the student and the instructor. One, two, three, or four credit hours.

CHEM 4411 Instrumental Analysis
Prerequisites: CHEM 2311, 3350; PHYS 2322, 2122 or 1122, 1122 with consent of instructor with a grade of C or greater. A study of the most common modern instrumental methods of analysis, to include topics in spectroscopy, electrochemistry, and chromatography. Dual-listed in the UALR Graduate Catalog as CHEM 5411. Lecture three hours, one-four-hour laboratory per week. Four credit hours.

CHEM 4420 Biochemistry
Prerequisites: CHEM 2310, 3151, 3351 with a grade of C or greater. A basic course covering the chemistry and metabolism of proteins, lipids, carbohydrates, and nucleic acids, and the action of vitamins, hormones, and enzymes. Dual-listed in the UALR Graduate Catalog as CHEM 5420. Lecture three hours, laboratory three hours. Four credit hours.

CHEM 4321 Biochemistry II
Prerequisites: CHEM 4420 or 5420 with a grade of C or greater. Continuation of Biochemistry I, covering energy generation, metabolism of lipids and amino acids, integration of metabolism, DNA replication and repair, transcription, translation, and control of gene expression. Dual-listed in the UALR Graduate Catalog as CHEM 5321. Students who have completed CHEM 432 may not enroll in CHEM 5321. Lecture three hours per week. Three credit hours.

CHEM 4829, 4389, 4489 Undergraduate Research
Prerequisites: consent of department chairperson, junior or senior standing, compliance with approved guidelines (available from chairperson) and comments in the printed schedule. Trains the student to analyze, plan, and conduct experimental work on a chemical problem. Frequent conferences and a study of chemical literature with a final written report are required. The student is expected to spend four to six hours per week on the project for each hour of credit earned. The exact hourly commitment per week will depend on the nature of the project and will be agreed on in advance by the student and the instructor. Two, three, or four credit hours.
The Earth Sciences include the disciplines of geology, meteorology, oceanography, Geographic Information Systems (GIS), and the application of these disciplines in the environmental sciences. The department’s goals are to relate these disciplines to intelligent living with the earth and to understand the interplay between earth and humanity. Students are encouraged to obtain a scientific understanding of earth systems on a global scale.

The Earth Sciences provide career opportunities for employment in industry, government, and teaching. Students interested in this area of study are urged to consult the departmental faculty regarding curricular plans and career goals. The department offers a bachelor of science in geology, a minor in geology, and a curriculum leading to secondary teacher licensure in science education.

The department offers course work at two levels:
1. University core curriculum requirement: ERSC 1302/1102 and 1303/1103 meet the science laboratory course requirement, and
2. ERSC 2300 meets the social sciences course requirement.

General Information
Professional courses, numbered 3310 and above, are designed for geology majors and minors, engineering technology majors, students interested in science teaching, and for other students with deeper interest in the field. For example, ERSC 3360 and 4353 are of interest to biology students; ERSC 3372, 4322, 4323, 4421, and 4373 are recommended for all students in environmental fields; and ERSC 4371 is appropriate for students in engineering technology or construction management.

For freshmen and sophomores who are interested or think they may be interested in teaching, please see the UALRTeach website (ualr.edu/ualrteach/) for more information about the UALRTeach program.

Laboratory Science Requirement Courses
The core curriculum requirements for science laboratory courses may be met by ERSC 1302/1102 Physical Geology lecture and laboratory and ERSC 1303/1103 Historical Geology lecture and laboratory.

Secondary Teacher Licensure in Science Education
A program leading to initial licensure by the Arkansas Department of Education in the area of secondary education is available to students at UALR. See “Secondary Teacher Licensure” for a description of the requirements. Because completing all the components of the secondary education program in four years requires careful planning, students should see the department chair of their chosen major for advising as early as possible after acceptance to UALR.

Bachelor of Science in Geology

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (Students should select ERSC 1102/1302 and 1103/1303 to complete the Lab Science core requirement.)

Second Language Proficiency (none required)

Major (62 hours)
Earth Science Foundation Courses (33 hours)
ERSC 1302 Physical Geology and ERSC 1102 Physical Geology Laboratory (also counts toward core.)
ERSC 1303 Historical Geology and ERSC 1103 Historical Geology Laboratory (also counts toward core.)
ERSC 3310 Earth Materials
ERSC 3330 Field Geology I
ERSC 3430 Structural Geology
ERSC 3440 Sedimentology
ERSC 4190 Senior Seminar

ERSC Electives (6 hours)
Select at least 6 hours from any ERSC courses other than ERSC 3390, which may not be counted toward the BS in Geology.

Supporting Courses (23 hours)
CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
PHYS 1321 Elementary Physics I
and PHYS 1121 Elementary Physics I Laboratory with PHYS 1322 Elementary Physics II
and PHYS 1122 Elementary Physics II Laboratory or PHYS 2321 Physics for Scientists and Engineers I
and PHYS 2121 Physics for Scientists and Engineers I Laboratory with PHYS 2322 Physics for Scientists and Engineers II
and PHYS 2122 Physics for Scientists and Engineers II Laboratory
MATH 1451 Calculus I
MATH 1452 Calculus II
or STAT 2350 Introduction to Statistical Methods

Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Science Major/Minor in Geology: Environmental Geology

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (Students should select ERSC 1102/1302 and 1103/1303 to complete the Lab Science core requirement.)

Second Language Proficiency (none required)

Major/Minor (71 hours)
Earth Science Foundation Courses (40 hours)
ERSC 1302 Physical Geology
and ERSC 1102 Physical Geology Laboratory (Also counts toward core.)
ERSC 1303 Historical Geology
and ERSC 1103 Historical Geology Laboratory (Also counts toward core.)
ERSC 3310 Earth Materials
ERSC 3330 Field Geology I
ERSC 3430 Structural Geology
ERSC 3440 Sedimentology
ERSC 4340 Stratigraphy
ERSC 4411 Igneous and Metamorphic Petrology
ERSC 4320 Field Geology II
ERSC 4190 Senior Seminar
ERSC 4322 Environmental Geology
ERSC 4421 Introduction to Geographic Information Systems (GIS)

Electives (select 12 hours)
ERSC 4373 Hydrogeology
ERSC 4419 Geomorphology
ERSC 4422 Applied GIS
ERSC 4371 Engineering Geology
ERSC 3380 Oceanography
ERSC 3360 Paleobiology
ERSC 4353 Geology and Ecology of the Bahamas
ERSC 4195, 4295, 4395 Internship in Earth Science
ERSC 4199, 4299, 4499, 4499 Special Topics (must be approved)

Supporting Courses (19 hours)
CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
PHYS 1321 Elementary Physics I
and PHYS 1121 Elementary Physics I Laboratory
with PHYS 1322 Elementary Physics II
and PHYS 1122 Elementary Physics II Laboratory
or PHYS 2321 Physics for Scientists and Engineers I
and PHYS 2121 Physics for Scientists and Engineers I Laboratory
with PHYS 2322 Physics for Scientists and Engineers II
and PHYS 2122 Physics for Scientists and Engineers II Laboratory
MATH 1451 Calculus I
or STAT 2350 Introduction to Statistical Methods

Minor (none required)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Geology Life/Earth Sciences Education Track

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (Students should select ERSC 1102/1302 and 1103/1303 to complete the Lab Science core requirement.)

Second Language Proficiency (none required)

Major (65 hours)
Earth Science Foundation Courses (33 hours)
ERSC 1302 Physical Geology
and ERSC 1102 Physical Geology Laboratory (Also counts toward core.)
ERSC 1303 Historical Geology
and ERSC 1103 Historical Geology Laboratory (Also counts toward core.)
ERSC 3310 Earth Materials
ERSC 3330 Field Geology I
ERSC 3430 Structural Geology
ERSC 3440 Sedimentology
ERSC 4340 Stratigraphy
ERSC 4411 Igneous and Metamorphic Petrology
ERSC 4320 Field Geology II
ERSC 4190 Senior Seminar

Supporting Courses (32 hours)
IGSC 4401 Integrated Science Methods
BIOL 1400 Evolutionary and Environmental Biology
or BIOL 1401 Science of Biology
4-6 hours of BIOL courses at or above 2000-level
ERSC 3360 Paleobiology (may be counted as upper-level Biology hours)
CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
MATH 1311 Applied Calculus I or MATH 1451 Calculus I
6 hours from any combination of MATH or STAT or CPSC courses

Minor (18 hours)
Secondary Education Courses
SCED 3210 Instructional Skills and Assessment
SCED 3110 Instructional Skills Practicum
SCED 4321 Teaching Diverse Adolescents
SCED 4122 Adolescent Diversity Practicum
SCED 4123 Adolescents with Special Needs
SCED 4124 Classroom Management
TCED 4600 Student Teaching
SCED 4330 Reflective Teaching
Praxis I must be passed before enrolling in SCED and TCED courses. GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to graduating.

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Bachelor of Science in Geology
Physical/Earth Sciences Education Track

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (44 hours)
See page 25 for requirement details. (Students should select ERSC 1102/1302 and 1103/1303 to complete the Lab Science core requirement.)

Second Language Proficiency (none required)

Major (62 hours)
Earth Science Foundation Courses (33 hours)
ERSC 1302 Physical Geology and ERSC 1102 Physical Geology Laboratory (Also counts toward core.)
ERSC 1303 Historical Geology and ERSC 1103 Historical Geology Laboratory (Also counts toward core.)
ERSC 3310 Earth Materials
ERSC 3330 Field Geology I
ERSC 3430 Structural Geology
ERSC 3440 Sedimentology
ERSC 4340 Stratigraphy
ERSC 4411 Igneous and Metamorphic Petrology
ERSC 4320 Field Geology II
ERSC 4190 Senior Seminar

Supporting Courses (29 hours)
IGSC 4401 Integrated Science Methods
CHEM 1402 General Chemistry I
CHEM 1403 General Chemistry II
PHYS 1321 Elementary Physics I
and PHYS 1121 Elementary Physics I Laboratory
with PHYS 1322 Elementary Physics II
and PHYS 1122 Elementary Physics II Laboratory
MATH 1311 Applied Calculus I
or MATH 1451 Calculus I
6 hours from any combination of MATH or STAT or CPSC courses

Minor in Geology
Required Courses (8 hours)
ERSC 1302 Physical Geology
and ERSC 1102 Physical Geology Laboratory
ERSC 1303 Historical Geology
and ERSC 1103 Historical Geology Laboratory
12 hours of ERSC electives

Minor in Environmental Geology
Required Courses (12 hours)
ERSC 1302 Physical Geology
and ERSC 1102 Physical Geology Laboratory
ERSC 1303 Historical Geology
and ERSC 1103 Historical Geology Laboratory
ERSC 4421 Introduction to Geographic Information Systems
8 hours from the following:
ERSC 4373 Hydrogeology
ERSC 4419 Geomorphology
ERSC 4422 Applied GIS
ERSC 4322 Environmental Geology
ERSC 4371 Engineering Geology
ERSC 3380 Oceanography
ERSC 3390 Weather Studies
ERSC 4195, 4295, 4395 Internship in Earth Science
ERSC 4199, 4299, 4399, 4499 Special Topics (must be approved)

Courses in Earth Sciences (ERSC)

ERSC 1102 Physical Geology Laboratory
Prerequisite or corequisite: ERSC 1302. A laboratory course designed to accompany ERSC 1302. Students observe, gather and manipulate data, interpret data, and make field measurements using minerals, rocks, graphs, and maps. The laboratory meets for two hours per week. One credit hour. (ACTS Course Number GEOL 1114 when taken with ERSC 1302)

ERSC 1103 Historical Geology Laboratory
Prerequisite or corequisite: ERSC 1303. A laboratory course designed to accompany ERSC 1303. Students are involved with geologic data gathering, manipulation, and interpretation along with field measurements and problem solving. Two hours laboratory per week. One credit hour. (ACTS Course Number GEOL 1134 when taken with ERSC 1303)

ERSC 1302 Physical Geology
An introduction to the science of geology, the geological view of the human environment, how geologists learn about Planet Earth, and how society and geology interact. Active learning applied to natural processes shaping the earth's surface, producing the solid and fluid earth, and historical development of geological paradigms. Three hours lecture per week. Three credit hours. (ACTS Course Number GEOL 1114 when taken with ERSC 1102)

ERSC 1303 Historical Geology
An introduction to the science of geology, how geologists have learned about the Earth using geologic time as a theme. Active learning applied to various measurements of time, the documentation of evolutionary changes presented by the geologic record, and the development of geologic paradigms used in interpreting this record. Three hours lecture per week. Three credit hours. (ACTS Course Number GEOL 1134 when taken with ERSC 1103)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
ERSC 1305 Science Skills
Prerequisite: Permission of the instructor. This course will help biology, chemistry, and earth science students reach their educational objectives. Interactive instructional methods promote the development of skills that lead to success in college and a successful career in science. Students 1) identify and use appropriate campus resources, 2) master common computer programs, 3) learn graphing and statistical methods, 4) develop better strategies to manage money, time, and stress wisely, and 5) explore the research conducted by UALR science faculty. Grading is based on projects, attendance, and participation. This course cannot be used for credit toward a biology, chemistry, or earth science major or minor. Three credit hours.

ERSC 2300 Science and Technology in Society
Recommended prerequisite: RHET 1311. Introduction to how society is impacted by and responds to science-driven decision-making. Examines how society embraces and applies (including governmental institutions) scientific principles and technological advances to solving global societal problems such as sustainability of natural resources, development of new energy resources due to population and economic growth, changes in climate and weather, pollution, and human health issues. Case studies will examine societal response (particularly governmental) to both past and current global scientific and technological issues.

ERSC 3310 Earth Materials
Prerequisites: ERSC 1302, ERSC 1102. Corequisite: CHEM 1402 or consent of instructor. Introduction to mineralogy including the silicate and nonsilicate groups, their crystalline structure, occurrence and origins. Introduction to the three major rock types and economic uses of minerals and rocks. Two hours lecture, three hours laboratory per week. Three credit hours.

ERSC 3320 Field Geology I
Prerequisites: ERSC 1302, ERSC 1102, ERSC 1303, ERSC 1103. Introduction to geologic field methods. Topics include: outcrop description; map and aerial photo interpretation; navigation skills; stratigraphic section measurement; cross-section construction; GPS and GIS techniques; computer drafting techniques; and geologic mapping in the Ouachita Mountains. Two hours lecture, three hours laboratory per week. Three credit hours.

ERSC 3360 Paleobiology
Prerequisites: ERSC 1303/1103, or BIOL 1401, or consent of instructor; ERSC 2320 recommended. The evolution and ecological structure of the biosphere from the origin of life to the present emphasizing the evolution and paleobiology of animal life as shown by the fossil record. Lectures discuss the methods used to interpret the fossil record, and cover topics such as ontogeny, speciation, phylogeny and systematics, functional anatomy, biogeography, biostratigraphy, paleoecology, and macroevolution. Laboratories will focus on paleobiological principles that can be demonstrated by the major groups of invertebrates that are common in the geologic record. Two hours lecture, three hours laboratory per week; one 1-2 day field trip. Three credit hours.

ERSC 3372 Surficial Hydrology
Prerequisites: MATH 1304 or 1311 and consent of instructor; junior standing in earth science, physics, chemistry, biology, environmental health sciences, or engineering technology. Hydrologic cycle, basin analysis, runoff analysis, stream hydraulics, flooding, case histories, field methods in hydrology, hydrologic planning. Three hours lecture per week. Three credit hours.

ERSC 3380 Oceanography
Prerequisite: 4 hours of earth science, biology, chemistry, or physics. This course provides an introduction to the historical, physical, chemical, geological, and biological aspects of the oceans and their importance to the global system. Three hours lecture per week. Three credit hours.

ERSC 3390 Weather Studies
Prerequisite: 4 hours of earth science, biology, chemistry or physics. This course provides an overview of how the distribution of heat, atmospheric circulation, humidity, and air pressure forms local, regional and global weather conditions. The course will include analysis of recent meteorological events that demonstrate basic principles of how weather patterns evolve. May not be counted for BS in Geology. Three hours lecture per week. Three credit hours.

ERSC 3430 Structural Geology
Prerequisites: ERSC 3310, MATH 1303. The description and analysis of geological structures in Earth's crust and an introduction to global tectonics. Topics covered include: the description of geological structures; stress, strain, deformation and rheology; the kinematics and dynamics of folding and faulting; microstructural analysis; principles of plate tectonics; selected orogenic systems of the world. Three hours lecture, two hours laboratory per week. Four credit hours.

ERSC 3440 Sedimentology
Prerequisite: ERSC 1302/1102. Sedimentary processes and products; siliciclastic sediments and environments, biogenic, chemical and other nonsiliciclastic sedimentary rocks and the environments in which the form. Sedimentary petrology methods. Two hours lecture, 4 hours lab per week. Weekend field trips. Four credit hours.

ERSC 4100, 4200, 4300 Independent Problems
Prerequisite: consent of instructor, generally given only with senior standing and/or 20 hours of geology. Field or laboratory problem in consultation with instructor. One, two, or three hours or equivalent per week. One, two, or three credit hours.

ERSC 4190 Senior Seminar
Prerequisite: senior standing and geology major or minor. Students initiate and conduct independent research. Students work with faculty advisor and produce written and oral progress reports throughout the semester culminating in a professional presentation at the end of the semester. Students must contact faculty advisor and discuss their research topic the semester prior to enrollment in this course. Course includes compilation of academic portfolio. One hour per week. One credit hour.

ERSC 4304 Geology of North America
Prerequisites: ERSC 1303/1103, 3360. Detailed history of North America and its life forms as interpreted from rock and fossil records. Principles of interpretation, geologic and biologic succession of events, and advanced individual interpretation of geologic maps, with reports. Two hours lecture, two hours laboratory (or equivalent) per week. Three credit hours.

ERSC 4320 Field Geology II or approved Geology Field Camp
Prerequisites: ERSC 3320 and ERSC 3430. Advanced geologic mapping techniques. Three weeks of field work and instruction at various locations in the United States. Three credit hours. Requires 8 hours in the field every day for three weeks. Additional fee for transportation, food and other field costs. Three credit hours.

ERSC 4322 Environmental Geology
Prerequisite: consent of instructor based on completion of ERSC 1302/1102, GEOG 1311, or the equivalent. Humans as a geologic agents, geologic hazards in the environment, geology and land use studies, urban geology, and case histories. Dual-listed as ERSC 5322. Three hours lecture per week. Three credit hours.

ERSC 4323 Geology of Arkansas
Prerequisites: ERSC 1302/1102, consent of instructor. Regional geomorphology, structure, stratigraphy, and paleontology of Arkansas. Includes field trips to Ozark dome, Ouachita fold belt, Arkansas Valley, and Mississippi Embayment/Gulf Coastal Plain. Dual-listed as ERSC 5323. Three hours lecture per week, weekend field trips. Three credit hours.
ERSC 4340 Stratigraphy
Prerequisite: ERSC 3440. Course will describe and interpret the governing stratigraphic principals and methods of correlation of sedimentary rocks. The role of sedimentary environments, climate and tectonics on sedimentation patterns will be examined. Three hours lecture per week.

ERSC 4353 Geology and Ecology of Bahamas
Prerequisites: Eight hours of core science and consent of instructor. This course explores the geology and ecology of the shallow-water marine environment by examining the preeminent modern example, the Bahamas platform. The Bahamas provide an excellent model for understanding modern and ancient carbonate and reef deposits, and variety of terrestrial/aquatic habitats. Biological processes are ultimately responsible for many of the geological features of the Bahamas, so the course considers the biology/ecology of marine organisms in addition to geological topics. The field component is based at the Gerace Field Center for Geological, Biological, and Anthropological Research on San Salvador Island, Bahamas. Seventy-five hours of lecture/laboratory/field activity. Dual-listed as ERSC 5353. Three credit hours.

ERSC 4371 Engineering Geology
Prerequisite: MATH 1303 or higher or the consent of instructor. The study of the interaction of rock, soil and geologic processes with the engineering activities of man by applying geological data, techniques and principles. The integration of geological, geotechnical and geophysical investigative methods will be emphasized. Lecture topics will include soil and rock mechanics and rock deformation, the assessment of the spatial-temporal variability of subsurface materials, slope stability analysis and slope failure mitigation, earthquake engineering, hydrologic system management, and the application of GIS and geology. Dual-listed as ERSC 5371. Two hours lecture, two hours laboratory per week. Three credit hours.

ERSC 4373 Hydrogeology
Prerequisites: MATH 1302 or MATH 1311; ERSC 3310. Corequisite CHEM 1402. Ground water occurrence, flow, porosity, permeability, aquifer analysis, geology of ground water, water well logging, well development, case histories, field methods, hydrogeologic planning. Dual-listed in the UALR Graduate Catalog as ERSC 5373. Three hours lecture per week. Three credit hours.

ERSC 4389 Undergraduate Research
Prerequisite: senior honors standing in geology. Various topics for thorough research selected by students in consultation with an advisor. Field work and/or experimental or laboratory work resulting in a report to be critiqued by at least two faculty members (no oral defense). The student is expected to spend at least nine hours per week on the project. The exact hourly commitment per week will depend on the nature of the project and will be agreed on in advance by the student and the instructor. Three credit hours.

ERSC 4391 Cooperative Education in Earth Science
Prerequisites: Junior undergraduate standing or graduate standing and consent and approval of assignment by advisor. Supervised professional experience related to students discipline with governmental agencies, industry and consulting firms. This course requires a minimum of 200 semester work hours. Three credit hours.

ERSC 4195, 4295, 4395 Internship in Earth Science
Prerequisites: senior standing in geology, consent and approval of assignment by advisor. Supervised professional experience related to students discipline with governmental agencies, industry, and consulting firms. Forty hours supervised work per credit hour. One, two, or three credit hours.

ERSC 4411 Igneous and Metamorphic Petrology
Prerequisite or corequisite: ERSC 3310. Composition, characteristics, classification, occurrence, and petrogenesis of the igneous and metamorphic rocks. Megascopic and microscopic methods of description. Two hours lecture, four hours laboratory per week. Four credit hours.

ERSC 4419 Geomorphology
Prerequisites: ERSC 1302, ERSC 1102, ERSC 3320, or consent of instructor. The study of form and process at the Earth’s surface. The interactions between erosional and depositional processes at the Earth’s surface with tectonic processes operating within the Earth are examined with respect to landform evolution. Laboratory includes the analysis of maps, digital imagery, and field applications of GIS technology. Dual-listed in the UALR Graduate Catalog as ERSC 5419. Two hours lecture, four hours laboratory or field study per week. Four credit hours.

ERSC 4421 Introduction to Geographic Information Systems (GIS)
Prerequisites: consent of instructor. This course introduces Geographic Information Systems (GIS) and the use of spatial data for problem-solving in science. The lecture portion of the course focuses on the data models used to represent spatial features and on the processes involved in creating, acquiring, analyzing, and displaying georeferenced information. The laboratory portion of the course employs a project-based methodology including applications from geology, biology, environmental science, and political science to foster basic GIS software proficiency. Dual-listed as ERSC 5421. Two hours lecture per week, four laboratory hours. Four credit hours.

ERSC 4422 Applied GIS
Prerequisites: BIOL/ERSC 4421 or consent of instructor. This course builds on the fundamental concepts of Geographic Information Systems (GIS) from ERSC 4421 Introduction to GIS. It focuses on advanced applications in GIS with an emphasis on problem-solving, advanced analysis techniques, and database management. Two lecture hours per week, four laboratory hours. Four credit hours.

ERSC 4426 Introduction to Remote Sensing
Prerequisites: ERSC/BIOL 4421 or consent of instructor. This course introduces the fundamentals of manipulating and interpreting the electromagnetic spectrum. The lecture portion of the class covers concepts of remote sensing, including how data is collected, processed, analyzed, and interpreted. The lab portion of the class is focused on building proficiency in several images processing software programs and the use of spatial data for problem-solving in science. Two lecture hours per week, four laboratory hours. Four credit hours.

ERSC 4499, 4299, 4399, 4499 Special Topics
Prerequisite: consent of instructor. Advanced and specialized topics in the geological sciences, especially those of current interest. Refer to semester schedule for special topic offered. Credit will vary depending upon course topic. One, two, three, or four hours or equivalent per week. One, two, three, or four credit hours.
Overview of Health, Human Performance and Sport Management Degrees:

The Department of Health, Human Performance and Sport Management degree programs are designed to educate students as health professionals in community health agencies, health maintenance organizations, business and industry, wellness programs, and also to prepare students to enter graduate programs. Students may also earn a PK-12 teaching licensure in Physical Education Wellness and Leisure.

General Information

We know that healthy living isn’t just a trending buzzword – it’s rooted in scientific study, mastery of technical concepts, and practical application. In the Department of Health, Human Performance, and Sport Management, we provide a solid foundation of knowledge for you to build upon. Here’s how:

• Our faculty members are committed to providing students with a well-rounded educational experience that is achieved through curriculum, research, and service projects.
• Our talented instructors provide students with an excellent blend of scientific and technical proficiency, while incorporating an individualized learning experience.
• Our students receive an indispensable education from classroom lectures as well as hands-on experience.

We offer bachelor’s and master’s degrees as well as special programs such as leisure science and a coaching endorsement.

Admission Requirements

Students who select Health, Human Performance & Sport Management as a major must have completed a minimum of 12 credit hours with a cumulative grade point average of 2.00 or greater.

Emphasis Areas

Students interested in the Bachelor of Science in Health, Human Performance and Sport Management may choose from two emphasis areas.

Emphasis Health & Exercise Science in Secondary Education

The health and exercise science in Secondary Education emphasis prepares students to become licensed teachers in the area of Physical Education, Wellness, and Leisure P-12. Students earning this degree will also complete the courses necessary to obtain a coaching endorsement.

Secondary Teacher Licensure

The secondary education minor occurs in three sequential blocks. Students interested in this degree should review the minor in secondary education under Secondary Teacher Licensure in this catalog. Please contact the Health, Human Performance & Sport Management department at (501) 683-7201 for advising as early as possible to reduce any possible delays in progress toward this degree.

Emphasis in Health Education and Promotion

This course of study is designed to prepare students as health professionals in community health agencies, health maintenance organizations, as well as business and industry wellness programs. It is also designed to assist the entry-level health educator in taking the National Health Education Credentialing examination. This degree requires a minor course of study.

This degree is offered in either face-to-face or online course delivery modalities. For information concerning our online Bachelor of Sciences emphasis in Health Education and Promotion degree contact: Susan Hook at smhook@ualr.edu or (501) 569-3523.
### Bachelor of Science Health Human Performance and Sport Management
#### Health Education and Promotion Emphasis

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**
See page 25 for requirement details.

**Second Language Proficiency** (none required)

**Major (62 hours)**

**Health Human Performance and Sport Management Concentration (21 hours)**
- HHPS 1101 Dieting & Weight Control
- or HHPS 1102 Substance Abuse & Addiction
- or HHPS 1103 Smoking Cessation
- or HHPS 1104 Stress Management
- or One hour LESC course
- HHPS 1370 Personal Health
- HHPS 3372 Advanced First Aid
- HHPS 3377 Drug Education K-12
- HHPS 3401 Nutrition
- HHPS 3422 Exercise, Wellness & Lifestyle
- HHPS 4376 Mental Health Education

**Related Area Requirements (4 hours)**
- HHPS 3412 Applied Human Science (or)
- BIOL 1411 or 1412 Anatomy and Physiology (or)
- BIOL 2401 Microbiology

**Professional Area Requirements (37)**
- ENHS 4430 Epidemiology: Environment & Health
- HHPS 2303 Theory & Practice of Health Education
- HHPS 3374 Community Health Agencies
- HHPS 4371 Health Education Concepts & Applications
- HHPS 4373 Controversial Issues in Health Education
- HHPS 4374 Family Life & Sex Education
- HHPS 4378 Organization & Administration of Health Education
- HHPS 4379 Methods & Techniques of Teaching Health Education
- HHPS 4380 Health Education Program Evaluation
- HHPS 4381 Health Sciences Seminar
- HHPS 4695 Internship in Health Education (to be completed during student’s last semester)

**Minor (12-29 hours—typical minor requires 18)**

**Unrestricted General Electives**
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

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### Bachelor of Science Health Human Performance and Sport Management
#### Health and Exercise Science in Secondary Education Emphasis

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence.

**First-Year Colloquium (0-3 hours)**
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**
See page 25 for requirement details.

**Second Language Proficiency** (none required)

**Major (63 hours)**

**Health Human Performance and Sport Management Concentration (8 hours)**
- HHPS 3401 Nutrition
- HHPS 3412 Applied Human Sciences (or) BIOL 1411 or 1412 Human Anatomy and Physiology

**Professional Area Requirements (55 hours)**
- HHPS 2372 Care and Prevention of Injuries
- HHPS 3210 Teaching Individual Sports
- HHPS 3211 Health and Safety in Early Childhood
- HHPS 3212 Teaching Individual Sports II
- HHPS 3220 Teaching Team Sports
- HHPS 3222 Teaching Team Sports II
- HHPS 3302 Exercise Physiology
- HHPS 3310 Coaching Theory/Methodology
- HHPS 3320 History and Principles of Health & Physical Education
- HHPS 3330 Teaching PK-5 Physical Education
- HHPS 3372 Advanced First Aid
- HHPS 3377 Drug Education K-12
- HHPS 3402 Kinesiology (prerequisite: HHPS 3412 or BIOL 1411)
- HHPS 3410 Biomechanics of Human Movement
- HHPS 3422 Exercise, Wellness and Lifestyle
- HHPS 4340 Adaptive Physical Ed. K-12
- HHPS 4350 Methods & Techniques of Teaching Physical Ed 6-12 (prerequisite: HHPS 3210, 3220, 3310, 3320)
- HHPS 4379 Methods & Techniques of Teaching Health Education
- HHPS 4384 Motor Development

**Minor (18 hours)**

**Secondary Education Courses**
- SCED 3210 Instructional Skills and Assessment **
- SCED 3110 Instructional Skills Practicum **
- SCED 4321 Teaching Diverse Adolescents **
- SCED 4122 Adolescent Diversity Practicum **
- SCED 4123 Adolescents with Special Needs **
- SCED 4124 Classroom Management **
- TCED 4600 Student Teaching **
- SCED 4330 Reflective Teaching **
  **Praxis I must be passed before enrolling in SCED or TCED courses. GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to graduating.**

**Unrestricted General Electives**
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.
Minor in Health Sciences

The minor in Health Sciences is designed for students interested in health education. This minor requires 18 credit hours which should include the following courses:

- HHPS 1370 Personal Health
- HHPS 3401 Nutrition
  - or HHPS 3422 Exercise, Wellness, and Lifestyle,
- HHPS 3302 Exercise Physiology
- HHPS 3377 Drug Education K-12
  - or HHPS 4373 Controversial Issues in Health Education
- HHPS 4374 Family Life and Sex Education
- HHPS 4376 Mental Health Education
  - or HHPS 4371 Health Education Concepts and Applications
- HHPS 3374 Community Health Agencies
  - or HHPS 4378 Organization and Administration of Health Education Programs

Minor in Health and Exercise Science: 20 hours

- HHPS 3422 Exercise, Wellness, & Lifestyles
- HHPS 3210 Individual Sports
- HHPS 3220 Teaching Team Sports
- 12 hours of Upper-Level Health and Exercise Science Courses.

Minor in Sport Management

Sport Management, is an interdisciplinary field of study which emphasizes a broad understanding of both sport and business. The Sport Management minor encourages the development of this interdisciplinary knowledge base and provides the students with the practical skills necessary for successful careers in management, promotion, administration, marketing, organizing and leading a sport business or organization. This minor requires 18 credit hours which should include the following courses:

Sport Management Minor Prerequisite Course
(3 credits)

- HHPS 2330 – Introduction to Sport Management

Sport Management Minor Required Core Courses
(15 credits)

- Select 15 credits (5 courses) from the following list:
  - HHPS 3330 Governance and Management of Sport Organization
  - HHPS 3331 Legal and Ethical Issues in the Sport Industry
  - HHPS 3332 Sport Facility and Event Management
  - HHPS 3334 Sports Marketing Management
  - HHPS 3335 Economics and Finance in the Sport Industry
  - HHPS 4399/5399 Special Topics

Arkansas Coaching Endorsement information

Students wishing to coach athletics in the State of Arkansas must obtain a Coaching Endorsement from the Arkansas State Department of Education.

All individuals enrolled in teacher licensure programs who wish to coach, will have to wait until completion of their degree program and until they have received an initial teaching license.

Students who have teaching licensures from another subject area who complete the coaching endorsement course of study and successfully complete Praxis #0095 coaching will meet requirements for an Arkansas coaching endorsement.

The B.S. in Health and Exercise in Secondary Education offered in the Department of Health, Human Performance & Sport Management includes all required courses necessary for the Coaching Endorsement.

After obtaining an Arkansas Teaching Licensure, students may then add the Coaching Endorsement by:

- Completing the required program of study
  - HHPS 2372 Care & Prevention of Injuries
  - HHPS 3302 Exercise Physiology
  - HHPS 3372 Advanced First Aid
  - HHPS 3210 Individual Sports
  - HHPS 3402 Structural Kinesiology
  - or BIOL 1411 Human Anatomy and Physiology I
  - HHPS 3310 Coaching Theory
  - HHPS 4350 Methods of Teaching Physical Education Licensure
  - Praxis II: # 0095 Physical Education: Content and Design
  - Leisure Science Program: (LESC)

The Department of Health, Human Performance and Sport Management offers leisure science and wellness courses to help students develop appreciation, knowledge, and understanding of the importance of exercise in daily living.

Leisure science and wellness courses also enable students to develop a satisfactory level of skill in leisure time activities. Emphasis is placed on developing an individual lifetime activity program to improve health-related fitness components.

Courses in Health, Human Performance & Sport Management

HHPS 1101 Dieting and Weight Control

A practical short course designed to teach the proper methods of dieting and controlling body weight. Students will be taught how to determine, achieve, and maintain their correct body mass by using the scientific principles of proper nutrition and exercise. The futility of using drugs and fad diets to control weight will be explained. One credit hour.

HHPS 1102 Substance Abuse and Addiction

A practical short course designed to provide basic knowledge of drug abuse and addiction. Students will evaluate the role of drugs and other addictive behaviors in their life, and identify their risk factors for abuse or dependence. Students will be given information on available resources and options for behavior change and coping skills. One hours lecture/discussion per week. One credit hour.

HHPS 1103 Smoking Cessation

A practical short course designed to explore nicotine dependency/addiction and smoking cessation options. Based on assessment of individual tobacco use and knowledge of the advantages and disadvantages of smoking cessation options, students will plan and implement, if appropriate, a strategy for long term smoking cessation. One hour lecture/discussion per week. One credit hour.

HHPS 1104 Stress Management

A practical short course designed to assist the individual in identifying sources and situations that trigger reactions, both positive and negative, that display the physiological stress response. The individual will be taught how to identify stressors in their lives and explore possible ways of changing responses in order to develop satisfactory reactions to these stressors. The approach to this course is both personal and practical. One hour lecture/discussion. One credit hour.
HHPS 1170 Cardiopulmonary Respiration
Current lifesaving techniques used on individuals with heart or breathing emergencies. Appropriate first aid techniques also included. Two hours lecture/laboratory. One credit hour.

HHPS 1370 Personal Health
Designed to develop the understanding, attitudes, and practices which contribute to optimum physical, mental, and social well-being. Emphasis on major health problems and causes of death in various age groups. Three hours lecture per week. Three credit hours. (ACTS Course Number HEAL 1003)

HHPS 2303 The Theory and Practice of Health Education
Prerequisite: HHPS 1370 Personal Health or departmental approval. An introduction to the scientific basis for developing health education interventions from program assessment through program evaluation. History, theory, concepts and applications will be discussed. Issues related to the design of relevant, practical and effective health education programs will be considered. Three hours lecture per week. Three Credit hours.

HHPS 2330 Introduction to Sport Management
This course will provide an overview of all facets of sports including management, career opportunities, marketing and promotion, public relations, fund raising, economics and finance, legal and ethical issues, and event and facilities management. Three hours lecture per week. Three Credit hours.

HHPS 2372 Care and Prevention of Injuries
Care, prevention, and treatment of injuries to various parts of the body; taping and wrapping; laboratory practicum activities; exercise therapy techniques and basic understanding necessary to sound exercise programs. Three hours lecture/laboratory per week. Three credit hours.

HHPS 3195 Practicum in Health Education
Prerequisites: junior standing, consent of program coordinator. Directed observation and supervised field work in a health education professional setting. Emphasis on planning, conducting, and evaluating activities in the program. One credit hour for 30 clock hours. One credit hour.

HHPS 3196 Practicum in Exercise Science
Prerequisites: HHPS 2302, consent of program coordinator and instructor of HHPS 2302. Practicum students will administer physical fitness tests to those enrolled in HHPS 2302 at both the beginning and end of the semester. They will help prescribe exercise and be responsible for helping HHPS 2302 class members achieve their stated fitness goals. This aid will consist of advice and motivation, leadership of exercise groups, nutrition planning, and modification of exercise prescriptions where required. One credit hour for 30 clock hours. One credit hour.

HHPS 3210 Teaching Individual Sports
The course is an examination of the theory and practice of teaching and coaching: tennis and golf. Two hours lecture per week. Two credit hours.

HHPS 3211 Health and Safety in Early Childhood
A practical short course designed to provide an introductory experience to the basic concepts of health and safety in early childhood environments. Specific attention is given to recognition of common illnesses in young children, infection control practices, injury prevention, and basic emergency treatment procedures. Some of the regulations that guide health and safety practices in early educational environments will be examined. Two hours lecture per week. Two credit hours.

HHPS 3212 Teaching Individual Sports II
This course is an examination of the theory and practice of teaching/coaching Tumbling and Track. Two hours lecture per week. Two credit hours.

HHPS 3220 Teaching Team Sports
The course is an examination of the theory and practice of teaching and coaching: basketball, volleyball, and baseball. Two hours lecture per week. Two credit hours.

HHPS 3222 Teaching Team Sports II
This course is an examination of the theory and practice of teaching/coaching baseball/fast-pitch softball, soccer, and football. Two hours lecture per week. Two hour credit.

HHPS 3302 Exercise Physiology
Prerequisites: HHPS 3412 or department approval. The relationship between regular, moderate exercise and the resultant increase in the efficiency of the heart, lungs, and muscles. Students learn to assess fitness by the use of various laboratory instruments and techniques and to improve fitness by the judicious use of specific training programs. Two hours lecture, two hours laboratory. Three credit hours.

HHPS 3310 Coaching Theory and Methodology
Course is designed to improve the knowledge and understanding of methods and coaching theories. Students learn how to manage young athletes in conditioning, skill development, competition, motivation, and strategies. Three hours lecture per week. Three credit hours.

HHPS 3320 History of Physical Education
A study of the historical development of organized physical activity designed to improve the understanding and appreciation of the purpose, value, nature, scope, and significance of physical education throughout history. Three hours lecture per week. Three credit hours.

HHPS 3330 Teaching PK-5 Physical Education
This course is designed to help students understand the need for an effective pre kindergarten – 5 physical education program. It will provide the prospective PK-5 school classroom teacher, as well as the PK-5 physical education specialist, with a knowledge base in the principles of physical fitness, elementary physical education curriculum planning and appropriate selection of physical activities for children. The students will be working with hands-on projects integrating the discipline of physical education and other curriculum subjects found in grades PK-5th. Three hours lecture per week. Three Credit hours.

HHPS 3331 Legal/Ethical Issues in Sport
Prerequisite: HHPS 2330. This course is designed to provide standard information on legal and ethical issues in the sport industry and the risk managers are responsible for. This course will focus on the three major areas of the law that have a direct impact on the management of sport: tort liability and risk management; contract law; and constitutional law. Identifying management strategies and education for proactive rather than reactive responses will be a major emphasis. Additionally, time will be spent investigating moral issues in sport, and judgments about right and wrong behavior among athletes, coaches, spectators, and others. Three hour lecture per week. Three credit hours.

HHPS 3332 Sport Facility and Management
Prerequisite: HHPS 2330. Sport and entertainment (amateur and professional) activities are held in facilities that create unique opportunities for the sport and entertainment business manager. This course offers a comprehensive look at the discipline of facility management and event planning/operations. Three hour lecture per week. Three credit hours.
HHPS 3333 Governance & Management of Sport
Prerequisite: HHPS 2330. This course is designed to familiarize students with the concepts of governance, policy, decision-making, organizational behavior, and human resource management in the sport context. Through various individual and group assignments, students will gain knowledge and develop skills relevant to becoming an effective sport administrator. Emphasis will be placed on learning the structure of common sport organizations at various levels (scholastic, recreational, amateur, professional and others) as well as organizational behavior theory and common human resource issues (staffing, performance appraisal and leadership). Three hours lecture per week. Three credit hours.

HHPS 3334 Sports Marketing Management
Prerequisite: HHPS 2330. This course investigates principles and processes in sport marketing and sales. Focuses on research and development, sport promotion, sport sponsorship, advertising, merchandising, and distribution of sporting goods. Three hours lecture per week. Three credit hours.

HHPS 3335 Sport Finance and Economics
Prerequisite: HHPS 2330. In this course, students will be introduced to current economic and financial issues confronting managers in the sport industry. Three hours lecture per week. Three credit hours.

HHPS 3372 Advanced First Aid
Training individuals to realize ethical and legal obligations in rendering competent first aid in case of accident or injury until a physician can be found. American Heart Association advanced first aid certification on successful completion of the course. Three hours lecture per week. Three credit hours.

HHPS 3374 Community Health Agencies
Principles and practices of public health and voluntary health programs and agencies. Students make guided observation in laboratory situations and engage in seminars. Three hours lecture per week. Three credit hours.

HHPS 3377 Drug Ed. K-12
An in-depth study of drug education designed to help teachers, administrators, and other special interest groups present drug education programs. Three hours lecture per week. Three credit hours.

HHPS 3391 Cooperative Education in Health Education
Prerequisites: junior standing, acceptance as a Health, Human Performance & Sport Management major, minimum GPA of 2.50, and consent of program coordinator. Cooperative education seeks to integrate academic and professional work experiences. Students will be placed in a work setting consistent with their Health, Human Performance & Sport Management career objectives. This course requires a minimum of 200 semester work hours. Three credit hours.

HHPS 3401 Nutrition
Fundamental principles of human nutrition, nutritional value of foods, nutritional requirements of individuals at all ages, application of principles of nutrition under various physiological and economic conditions. Four hours lecture-demonstration per week. Four credit hours.

HHPS 3402 Structural Kinesiology
Prerequisites: HHPS 3412 or BIOL 1411 OR BIOL 1412 or equivalent or department approval. This course is a study of muscles, bones and joints as they are involved in the science of movement. Several physiological and mechanical principles are included to increase the understanding of the structures discussed in the course content. Four hours lecture-demonstration per week. Four credit hours.

HHPS 3410 Biomechanics of Human Movement
Prerequisites: HHPS 3402 and MATH 1302 or department approval. This course is intended to serve as an introduction to the biomechanics of human movement, including terminology and mechanical concepts using both quantitative and qualitative problems and applications. Three hours lecture and one hour lab per week. Four credit hours.

HHPS 3412 Applied Human Science
This course is designed to develop within the prospective health, physical education and wellness professional an understanding and applicable knowledge of the human organism. Those systems appropriate for understanding humans within the activity setting are emphasized such as the skeletal, muscular, nervous, circulatory, endocrine, and respiratory. Three hours lecture and one hour lab per week. Four credit hours.

HHPS 3422 Exercise, Wellness & Lifestyle
This course is designed to give the student an initial fitness assessment and exercise prescription experience. Basic concepts of assessment and principles of physical training will be covered. Students will implement an individual training program and demonstrate proficiency in assessment techniques of various skill and health-related fitness components. This course also requires students to actively participate in field work consisting of advice and motivation, leadership of exercise groups, nutrition planning, and modification of exercise prescriptions. Three hour lecture and one hour lab per week. Four credit hours.

HHPS 4340 Adapted Physical E. K-12
Course presents the philosophy and methods pertaining to the adaptation of physical education for handicapped and exceptional students. A basic knowledge of handicapped conditions and their complications for participating in physical education along with classroom, laboratory, and practical experience will be provided to increase the awareness of the handicapped and to facilitate the application of knowledge to real life situations. Dual-listed in the UALR Graduate Catalog as HHPS 5340. Three hours lecture per week. Three credit hours.

HHPS 4350 Methods and Techniques of Teaching Physical Education 6-12
Prerequisites: HHPS 3320, HHPS 3210, and HHPS 3310, or department approval. This course provides a detailed review of the analysis and application of the major responsibilities and competencies required for teaching physical education 6-12. Emphasis is on learning the State Standards for Physical Education, Wellness, & Leisure (SSPEWL) K-12 licensure requirements and preparation for the ETS PRAXIS Series exams. This is the designated capstone course for the BS in Health Human Performance and Sport Management: emphasis in Health and Exercise Science, Minor in Secondary Education. Dual-listed in the UALR Graduate Catalog as HSCI 5350. Three hours lecture per week. Three credits hours.

HHPS 4371 Health Education Concepts and Applications
Examination of the concepts, philosophy, and applications of health education in public, private, professional, and commercial organizations that exist to improve and maintain health. Dual-listed in the UALR Graduate Catalog as HHPS 5371. Three hours lecture per week. Three credit hours.

HHPS 4372 First Aid Instructor Training
Prerequisites: HHPS 3372, current American Red Cross first aid certification. Students under supervision develop a lesson plan, observe teachers, develop tests, and participate in the American Red Cross first aid program. Instructor training course for candidates to become certified by the American Red Cross to teach standard first aid and personal safety. Three hours lecture per week. Three credit hours.

HHPS 4373 Controversial Issues in Health Education
Designed to expand the health educators knowledge of health issues as they are influenced by laws, public opinion, and scientific knowledge; an in-depth study of current controversial issues in health education. Dual-listed in the UALR Graduate Catalog as HHPS 5373. Three hours lecture per week. Three credit hours.

HHPS 4374 Family Life and Sex Education
A study of dating, engagements, marriage, children, divorce, and sexual behavior patterns. Three hours lecture per week. Three credit hours.
HHPS 4376 Mental Health Education
Examination of methods to be used by teachers to develop the mental health of individual students. Emphasis on the health educator’s role in reducing mental and emotional problems. Three hours lecture per week. Three credit hours.

HHPS 4378 Organization and Administration of Health Education Programs
Prerequisites: HHPS 2303 and HHPS 4380 or department approval. This course is designed to provide a foundation in the organization and management of community-based health education programs. The purpose of this course is to provide an introduction to the fundamental concepts of management, administration and leadership; as well as, demonstrate their application in a variety of health education, health promotion and wellness programs. Dual listed in the UALR Graduate Catalog as HHPS 5378. Three hours lecture per week. Three credits hours.

HHPS 4379 Methods and Techniques of Teaching Health Education
Prerequisite: HHPS 2303 or department approval. This course will focus on basic philosophic structure of an efficient, meaningful, and effective application of health education, teaching methods, learning models and theories. Students will gain experience in the organization and planning of programs intended to motivate, sustain individual behavior, and change community attitudes and policies. Three hour lecture per week. Three credit hour.

HHPS 4380 Health Education Program Evaluation
Prerequisites: HHPS 4371 or department approval. This course is designed to provide students with an opportunity to learn about program evaluation and measurement concepts in health education and their application. Content includes: evaluation terminology, how to write measurable objectives, how to identify evidence based models, how to design and collect data using quantitative and qualitative methods, how to interpret data. Three hours lecture per week. Three credit hours.

HHPS 4381 Health, Human Performance & Sport Management Seminar
Prerequisites: HHPS 2303, HHPS 4371, HHPS 4373 or department approval. The course will emphasize the National Commission for Health Education Credentialing seven areas of responsibility. It is the designated capstone course for the emphasis area of Health Education and Promotion in the Department of Health Human Performance and Sport Management Bachelor of Science degree, and prepares students for the Certified Health Education Specialist examination. The course evaluation will incorporate a portfolio component that will consist of artifacts from the prerequisite courses. Three hours lecture per week. Three credit hours.

HHPS 4384 Motor Development
Prerequisites: HHPS 3412 or department approval. This course analyzes the basic concepts relating to human motor development. Basic research and relevant theories of general human development are discussed in relation to motor development and the learning of motor skills. The course provides an understanding of the motor development from early childhood through adulthood. Three hours per week lecture. Three hours credit.

HHPS 4391 Cooperative Education in Health Education
Prerequisites: junior standing, acceptance as a Health, Human Performance & Sport Management major, minimum GPA of 2.50, minimum of one semester of HHPS 3391, and consent of program coordinator. Cooperative education seeks to integrate academic and professional work experiences. Students will be placed in a work setting consistent with their Health, Human Performance & Sport Management career objectives. This course requires a minimum of 200 semester work hours. Three credit hours.

HHPS 4394, 4294, 4394 Workshop in Health Education
Provides opportunities for students, in-service teachers, and interested individuals to work and study with health education professionals. The student can expect to spend two to four hours per week (15 week semester) on the workshop for each hour of credit earned. The exact hourly commitment per week will depend on the nature of the workshop and will be specified in advance by the instructor. One, two, or three credit hours.

HHPS 4399 HHPS Special Topics
Prerequisite: HHPS 2330. Selected topics of current relevance reflecting interest in specialized areas of health education, human performance, and sport management. Course topics will be announced in advance. This is a 3 credit hour lecture course.

HHPS 4402 Fitness Management
Prerequisites: BIOL 1411, 1412, HHPS 3302 or the equivalents. This course is designed to train students in the theory and skills required for the administration of fitness programs in industry, YMCAs, rehabilitation clinics, and similar facilities. Emphasis will be on standards and guidelines for facility staffing, programming, and equipment. Overview and discussion of organizational structure, client screening, emergency/safety procedures, and legal issues. Two hours lecture and two hours of program/facility fieldwork per week. Four credit hours.

HHPS 4100-4600 Independent Study in Health Education
Prerequisite: consent of department chairperson. Provides an opportunity for advanced students to conduct an in-depth study in a specific area of interest or a special problem. May be taken for one to six credit hours. The student is expected to spend two to four hours per week on the project for each hour of credit earned. The exact hourly commitment per week will depend on the nature of the project and will be agreed on in advance by the student and instructor. One, two, three, four, five, or six credit hours.

HHPS 4693 Internship in Health Education
Prerequisites: senior standing, 3195, 3196, consent of program coordinator. Directed observation and supervised field work in a health education professional setting. Emphasis on administration, supervision, and program leadership in public, private, or voluntary health agencies, institutions, or business. Six hours credit for 200 clock hours. Six credit hours.

Courses in Leisure Science (LESC)
LESC 1100 Team Sports I
Theory and practice needed to understand and develop an appropriate level of skill in flag football and volleyball. One credit hour.

LESC 1101 Team Sports II
Theory and practice needed to understand and develop an appropriate level of skill in basketball and softball. One credit hour.

LESC 1102 Sports Officiating
Emphasis is placed on developing the mechanics of signals, rules, and regulations to successfully officiate football, basketball, baseball, and softball. Practical applications of signals, rules, and regulations will be applied by the actual officiating of games. One credit hour.

LESC 1103 Beginning Ice Skating
For individuals who do not know how to ice skate. Emphasis on fundamentals, safety, and the basic steps. One credit hour.

LESC 1105 Beginning Swimming
For nonswimmers. Emphasis on fundamentals of swimming and water safety and the basic strokes: front crawl, back crawl, elementary backstroke, and side stroke. One credit hour.

LESC 1106 Scuba Diving
Theory and practice in the skills involved in the safe and effective use of snorkel, fins, face mask, and scuba equipment. Deep water training sessions are required for certification. A fee is charged for use of equipment and expense of deep water training sessions. One credit hour.

LESC 1107 Water Polo
Fundamental knowledge, techniques, and skills necessary to develop an understanding of and ability to play water polo. One credit hour.
LESC 1108 Water Aerobic Exercise
This course incorporates the health-related fitness components of muscular strength, muscular endurance and cardiovascular endurance in an aquatic environment. Due to increased resistance provided by water overload training, improvement should occur in these areas. Deep water exercises such as water walking and water jogging along with aerobic exercises done to music, combine to make up a stress-free fitness program. The ability to swim is not a prerequisite for water aerobic exercise. One credit hour.

LESC 1109 Racquetball
Emphasis is on developing skills in racquetball, presenting information on equipment safety, preliminaries to the strokes in racquetball, and introduction of the game itself. Practical application will enable the novice to develop both physical and mental skills to achieve in racquetball. One credit hour.

LESC 1111 Restrictive Activity
Designed for men and women who are physically unable to participate in other physical education activities. A statement from the family physician is required regarding the nature of the physical problem. One credit hour.

LESC 1112 Judo
Theory and practice of fundamentals of judo. Emphasis on the development of skills, rules, regulations, and necessary equipment. One credit hour.

LESC 1113 Karate
Theory and practice of fundamentals of karate. Emphasis on the development of skills, rules, regulations, and necessary equipment. One credit hour.

LESC 1114 Self-Defense
Fundamentals of self-defense designed for the individual interested in studying the scientific principles of gravity and body control over opposing forces as a self-protective device. One credit hour.

LESC 1115 Hunter Safety
A basic course in the principles of safe hunting. Qualifies students over 21 years of age for an Arkansas Game and Fish Commission Certificate as a Hunter Safety Instructor. One credit hour.

ESC 1116 Beginning Tennis
Emphasis on rules, scoring, selection of racket, grip, footwork, and body positioning. Also emphasizes forehand, backhand, serve, net volley, lob, fundamental strategy, and techniques of singles and doubles play. One credit hour.

LESC 1117 Beginning Golf
Theory and practice of fundamental skills and techniques of golf. Emphasis on rules and etiquette, use of one wood and three irons, grip, stance, backswing, head position, follow-through, approach shots, full strokes, and putting. A fee is charged. Held off campus. One credit hour.

LESC 1118 Beginning Badminton
Theory and practice of fundamental skills and techniques of badminton. Emphasis on stroke perfection and on strategy and techniques of singles and doubles play. One credit hour.

LESC 1119 Beginning Bowling
Theory and practice of fundamentals of bowling. Emphasis on four-step approach, consistency, body position, release, spot bowling, follow-through, timing, rebound, scoring, rules, and bowling etiquette. A fee is charged. Held off campus. One credit hour.

LESC 1120 Beginning Horseback Riding
Fundamental knowledge, techniques, and skills needed to develop appropriate skill. Emphasis on care of and adjustment to the horse and safety in riding. The walk, trot, canter, and introduction of jumping will also be emphasized. A fee is charged. Held off campus. One credit hour.

LESC 1121 Fencing I Beginning
An introduction to foil fencing. Designed to provide a sound basic understanding of the history, rules, etiquette, and safety aspects of the sport of fencing. Develops basic technical and tactical skills needed for novice-level competition through emphasis on basic offense and defense, continuation of attack, compound attacks, and practical bouting. One credit hour.

LESC 1122 Tumbling
This course includes the theory and practice for conditioning and developing basic skills in tumbling. Intermediate skills will be introduced during the latter half of the semester. Development of strength and flexibility is emphasized. One credit hour.

LESC 1123 Body Mechanics and Conditioning
Emphasis on self-improvement in fitness, conditioning, nutrition, strength development, weight loss or gain, efficient body mechanics, posture, and decreasing or increasing body measurements. One credit hour.

LESC 1124 Stretch/Stress Program
Emphasis is placed on a series of relaxing and effective stretches to help relieve tension, increase flexibility, and range of motion. The stress reduction section provides techniques to help relieve stress and tension. One credit hour.

LESC 1125 Lifetime Fitness
Emphasis is placed on developing an individual lifetime program to improve the health-related components of fitness and wellness. Practical application of principles of exercise and the science of nutrition will be major components in achieving and maintaining ideal body weight. One credit hour.

LESC 1126 Walking to Fitness
Emphasis is placed on developing an individual level of walking performance. Practical applications of principles of exercise and the components of an effective cardiovascular workout are used in achieving fitness through a walking program. One credit hour.

LESC 1128 Weight Lifting/Training
An introduction to the fundamentals of weight lifting applicable to the development of muscular strength and endurance. Principles of exercise, body composition goals, lift techniques, safety instruction, and flexibility maintenance are emphasized. One credit hour.

LESC 1131 Aikido
Theory and practice of fundamentals of Aikido. Concentration will be on the development of skills, rules, regulations, and necessary equipment. One credit hour.

LESC 2103 Intermediate Ice Skating
Review of material in LESC 1103. New material includes: back crossover, T stop, back crossover in a figure eight pattern, fast forward crossover, three turns, and T take off; review of door carries, forced outside and inside edges, open Mohawk turn, one foot snow plow, hockey stop, spin, and bunny hop. One credit hour.

LESC 2105 Intermediate Swimming
Prerequisite: LESC 1105 or equivalent. Review of three basic strokes: front crawl, back crawl, and elementary backstroke. Coordinated stroking in side strokes, breaststroke, inverted breaststroke. Development of strong isolated arm strokes and leg kicks, safety and survival skills, simple diving, simple rescue skills, artificial respiration, and distance swimming. One credit hour.

LESC 2116 Intermediate Tennis
Prerequisite: LESC 1116 or equivalent. Review of rules and scoring, selection of racket, grip, footwork and body positioning, forehand, backhand, serve and volley strokes, and game strategy. Developing the approach shot, lob, and overhead, and strengthening the volley and serve. Analysis of singles and doubles play strategy. One credit hour.
LESC 2117 Intermediate Golf
Prerequisite: LESC 1117 or equivalent. Review of the game of golf: rules, etiquette, selection of clubs, grip, stance, backswing, head position, follow-through, approach shots, full strokes, and putting. Appropriate use of one, three, and five woods and two, three, five, seven, eight, and nine irons. Irons: short approach shots, high loft, distance shots; woods: driver and use on fairway; putting: playing from rough hillside lies and sand traps. A fee is charged. Held off campus. One credit hour.

LESC 2119 Intermediate Bowling
Prerequisite: LESC 1119 or equivalent. Review of scoring rules, bowling etiquette, fundamentals, consistency, four-step approach, body position, aiming, back swing, release, follow-through, and rebound. Analysis of three-, four-, and five-step approaches, natural hook, severe hook, backup, and straight release; theories of aiming and principles of motion as they apply to bowling. A fee is charged. Held off campus. One credit hour.

LESC 2120 Intermediate Horseback Riding
Prerequisite: LESC 1120 or equivalent. Review and perfection of walk, trot, and canter, with emphasis on effective leads; effective use of rider’s body, hands, and legs. Introduction to barrel and cross-country course. A fee is charged. Held off campus. One credit hour.

LESC 2121 Fencing II Intermediate
An intermediate course designed to improve technical and tactical skills in the use of the foil. Intensive review of Fencing I, attacks on the blade, compound attacks, defense against compound attacks, tactics, defense, rules, and officiating; individual lessons, practice bouts, and class competition. One credit hour.

LESC 2122 Intermediate Gymnastics
Prerequisite: LESC 1122 or equivalent. Review of conditioning, basic skills in tumbling, and the vault. Free exercise routines, balance beam, and uneven bars for women; pommel horse, still rings, horizontal bar, and parallel bars for men. Introduction to composition of gymnastic routines. Strength and flexibility are emphasized. Students will perform required skills and routines and create routines. One credit hour.

LESC 2123 Body Mechanics II
Methods and techniques of developing strength, flexibility, and cardiovascular fitness using aerobic and self-improvement exercises. Conditioning will start slowly and progress to desirable levels of stress. One credit hour.

LESC 3103 Advanced Ice Skating
Review of material covered in LESC 2103. New material includes: squat and shoot-the-duck, review edges, layover step, layover and return, spinning, forward pivots, two-foot spins, half Mapes jumps, outside forward rolls, and spirals. One credit hour.

LESC 3105 Advanced Swimming
Prerequisite: LESC 2105 or equivalent. Review of coordinated strokes, side strokes, breaststroke, butterfly, and inverted breaststroke. Continued development of isolated arm strokes and leg kicks, safety and survival skills, rescue skills, and artificial respiration. Emphasis on coordinated strokes for extended distances, trudgen and trudgen crawl, floating and survival skills, surface diving, and underwater swimming and diving. One credit hour.

LESC 3106 Advanced Scuba Diving
Review of basic scuba techniques and safety procedures. Emphasis on water diving experience: safe diving procedures, limited visibility diving, light salvage and recovery diving, and deep and decompression diving. Advanced National Association of Underwater Instructors open water certification course. One credit hour.

LESC 3116 Advanced Tennis
Prerequisite: LESC 2116 or equivalent. Review of tennis fundamentals. Continued development of all strokes. Emphasis on development of serve, greater force and addition of spins, overhead smash, different types of lobs, different types of volleys, ground stroke, slice, and chop. Concentration on skill development in singles and doubles play and practice in tennis officiating. One credit hour.

LESC 3117 Advanced Golf
Prerequisite: LESC 2117 or equivalent. Review of golf fundamentals. Emphasis on development of approach shots, full shots with a club, and playing difficult lies, with concentration on improving putting skills. A fee is charged. Held off campus. One credit hour.

LESC 3119 Advanced Bowling
Prerequisite: LESC 2119 or equivalent. Review of bowling fundamentals. Emphasis on developing skill using a natural or severe hook. Concentration on body mechanics and principles of motion. A fee is charged. Held off campus. One credit hour.

LESC 3120 Advanced Horseback Riding
Prerequisite: LESC 2120 or equivalent. Emphasis on fine qualities of gaits; cause and solution to resistance problems; introduction to hunt seat; false and counter leads; cross-country and jumping tests; and understanding the health of the horse. A fee is charged. Held off campus. One credit hour.

LESC 4105 Lifeguard Training
Prerequisite: student must be able to swim 500 yards continuously. This is a course which will provide instruction of skills necessary for lifeguarding, CPR, and first aid training which will lead to Red Cross Lifeguard Certification. One credit hour.

LESC 4205 Water Safety Instructor
Prerequisites: LESC 4105, American National Red Cross water safety instructor’s certification. Methods and techniques of teaching swimming. Two hours lecture, two hours laboratory. Two credit hours.
The objectives of the department are to prepare students to enter graduate school, to teach at the elementary and secondary levels, to understand and use mathematics in other fields of knowledge with basic mathematical skills for everyday living, and to be employed and to act in a consulting capacity on matters concerning mathematics.

The department offers degrees in mathematics (bachelor of science and bachelor of arts) and secondary teacher licensure in mathematics (bachelor of science and bachelor of arts). The department also offers minors in mathematics and statistics.

### General Information

#### Admission Requirements

Students can apply for admission to any mathematics major using their online accounts (BOSS). Decisions regarding equivalency of courses and situations in which students have tested out of courses will be made by the department chairperson.

#### Scholarships and Awards

##### Scholarships

- The DeWoody and Emily Dickinson Math Scholarship is awarded to a full- or part-time mathematics major in his/her sophomore or junior year. In selecting a recipient for the Dickinson Scholarship, academic accomplishments are given the highest consideration, with additional consideration given to financial need, leadership skills, and involvement with student/math activities.

- The Jerry and Sherri Damerow Mathematics Scholarship is awarded to a full- or part-time student majoring in mathematics. Preferences are given to juniors and seniors, and academic accomplishment and financial need are strongly considered. This scholarship may be used to support undergraduate research.

- The Ma Endowed Family Scholarship is awarded to a full- or part-time student majoring in Mathematics. Academic accomplishment and financial need are strongly considered when selecting a recipient.

- The Linda and Tom McMillan Mathematics Scholarship is awarded to a full- or part-time student majoring in mathematics. Preferences are given to juniors and seniors, and academic accomplishment and financial need are strongly considered.

- The Mathematics and Statistics Faculty Award is a merit-based award for undergraduates with majors in mathematics and statistics.

##### Awards

The Department of Mathematics and Statistics annually confers the following awards:

- Outstanding Undergraduate Student
- Outstanding Graduate Student
- Outstanding Graduating Senior
- Outstanding Achievement by an Undergraduate Student
- Outstanding Achievement by a Graduate Student
- Outstanding Teaching by a Graduate Student
- Outstanding Service Award
- Outstanding Tutor Award

#### Honors Program in Mathematics

The department offers an honors program to permit exceptional students to pursue advanced study and receive recognition for its completion. The honors program is distinct from graduation with honors and does not replace it.

Participants in the honors program must be mathematics majors with at least junior standing (60-90 credit hours). The students will be selected by a faculty committee, normally during the junior year and usually before the second semester. Minimum admission requirements are a 3.25 grade point average overall and a 3.25 grade point average in all mathematics and statistics courses. These averages must be maintained for continued participation in the program. There will be at most five students in the program at one time. For details about the program please contact the department office.

#### Developmental Mathematics

Pre-Core Mathematics is offered to students who require additional prerequisite skills prior to enrolling in a core mathematics class. This is a course that is designed to prepare students with the necessary skills to be successful in college level mathematics. Topics include operations with real numbers (including exponents and radicals) and algebraic expressions, ratios, proportions, linear inequalities, linear and quadratic equations in one variable, linear equations in two variables, systems of linear equations, and logarithms.

For information on alternative methods of receiving credit for a developmental mathematics course, students should contact the department chair.
Mathematics Placement Tests
MUST enroll in MATH 0321

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 or less</td>
<td>ACT Math</td>
</tr>
<tr>
<td>44 or less</td>
<td>Compass Algebra</td>
</tr>
<tr>
<td>44 or less</td>
<td>EOC Compass Algebra*</td>
</tr>
<tr>
<td>499 or less</td>
<td>SAT Math</td>
</tr>
</tbody>
</table>

May enroll in MATH 1302, 1315, 1321, or take College Algebra MPT to attempt higher placement

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>21+</td>
<td>ACT Math</td>
</tr>
<tr>
<td>45+</td>
<td>Compass Algebra</td>
</tr>
<tr>
<td>45+</td>
<td>EOC Compass Algebra*</td>
</tr>
<tr>
<td>50+</td>
<td>Compass College Algebra</td>
</tr>
<tr>
<td>500+</td>
<td>SAT Math</td>
</tr>
</tbody>
</table>

May enroll in MATH 1303, MATH 1311, or MATH 1342

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>67+</td>
<td>Compass College Algebra</td>
</tr>
</tbody>
</table>

May enroll in MATH 1451

<table>
<thead>
<tr>
<th>Score</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>46+</td>
<td>Compass Trigonometry</td>
</tr>
</tbody>
</table>

**EOC (End of Course) scores reflect Compass tests administered as part of the legislative requirement for developmental courses. EOC scores are valid for credit bearing course placement.

Major in Mathematics

Bachelor of Science
The bachelor of science degree is designed for students who plan to enter graduate school or who wish immediate employment as mathematicians. It requires MATH 1223, 2453, 2350, 3310, 3312, 3322, 4390, 4303, 4304, STAT 3352, six additional hours of upper-level mathematics or statistics electives to include either MATH 4310, 4306, or 4302. Six hours of German or French are strongly recommended for students who intend to obtain the PhD degree in mathematics.

Bachelor of Arts
The bachelor of arts degree requires MATH 1223, 2453, 2350, 3310, 3312, 3322, 4303, 4390, STAT 3352, and 9 hours of upper-level mathematics or statistics electives. Also, students seeking the bachelor of arts degree are required to complete a 2000-level second language course or demonstrate equivalent proficiency as measured by a competency test.

Secondary Teacher Licensure
Students wishing to teach mathematics at the secondary level must complete either a bachelor of science or a bachelor of arts in mathematics.

The bachelor of science degree within the secondary teacher licensure option consists of MATH 1223, 2453, 2350, 3310, 3312, 3322, 3330, 4381, 4383, 4303, 4304, 4390, and either 4310, 4306 or 4302; STAT 3352; and the minor in secondary education. See the Secondary Teacher Licensure* section for details.

The bachelor of arts in mathematics within the secondary teacher licensure option consists of MATH 1223, 2453, 2350, 3310, 3312, 3322, 3330, 4381, 4383, 4390; STAT 3352; nine hours of upper-level MATH or STAT electives; and a minor in secondary education. See the Secondary Teacher Licensure* section for details.

Minor in Mathematics
The minor requires MATH 1451, 1452, 2453, 2350, and six hours of upper-level mathematics.

Bachelor of Arts in Mathematics

Second Language Proficiency (0-9 hours)
Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

Electives (9 hours)
Nine hours of approved MATH or STAT courses numbered above 3000.

Minor (12-29 hours—typical minor requires 18)
Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Minor in Statistics
The minor in statistics is designed for students who wish to apply their mathematical training in any of the many fields that employ statistics. It requires at least 12 hours of statistics courses, including STAT 3350, 3352, 3353, and either STAT 3351 or 4352. MATH 1223, 1451, and 1452 are also required. Statistics courses, except 3352, used for a minor may not be used to satisfy requirements for a major in mathematics.
Major (46 hours)

Mathematics Foundation Course (31 hours)
(MATH 1451 Calculus I satisfies the core requirement in mathematics.)
MATH 1223 Introduction to Mathematical Software
MATH 1452 Calculus II
MATH 2453 Calculus III
MATH 2350 Introduction to Proof
MATH 3310 Algebraic Structures I
MATH 3312 Linear Algebra
MATH 3322 Introduction to Differential Equations
MATH 3330 College Geometry I
MATH 4390 Senior Seminar
STAT 3352 Applied Statistics I

Secondary Education Option (6 hours)
MATH 4381 Teaching in Secondary School
MATH 4383 Technology in Math Education

Electives (9 hours)
Nine hours of approved MATH or STAT courses numbered above 3000.

Minor (12-29 hours—typical minor requires 18)

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Bachelor of Science in Mathematics

Secondary Education Option

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (45 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (46 hours)

Mathematics Foundation Courses (40 hours)
(MATH 1451 Calculus I satisfies the core requirement in mathematics.)
MATH 1223 Introduction to Mathematical Software
MATH 1452 Calculus II
MATH 2453 Calculus III
MATH 2350 Introduction to Proof
MATH 3310 Algebraic Structures I
MATH 3312 Linear Algebra
MATH 3322 Introduction to Differential Equations
MATH 4303 Advanced Calculus I
MATH 4304 Advanced Calculus II
MATH 4310 Algebraic Structures I
or MATH 4302 Complex Analysis
or MATH 4306 Topology
MATH 4390 Senior Seminar
STAT 3352 Applied Statistics I

Electives (3 hours)
A three-hour approved MATH or STAT course numbered above 3000.

Bachelor of Science in Mathematics

Secondary Education Option

General: 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (45 hours)
See page 25 for requirement details.

Second Language Proficiency (none required)

Major (46 hours)

Mathematics Foundation Courses (37 hours)
(MATH 1451 Calculus I satisfies the core requirement in mathematics.)
Minor (Secondary Education—18 hours)

Secondary Education Courses
- SCED 3210 Instructional Skills and Assessment
- SCED 3110 Instructional Skills Practicum
- SCED 4321 Teaching Diverse Adolescents
- SCED 4122 Adolescent Diversity Practicum
- SCED 4123 Adolescents with Special Needs
- SCED 4124 Classroom Management
- TCED 4600 Student Teaching
- SCED 4330 Reflective Teaching

Praxis I must be passed before enrolling in SCED and TCED courses. A GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to graduation.

Unrestricted General Electives

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Courses in Mathematics (MATH)

MATH 0321 Pre-Core Mathematics
This is a course that is designed to prepare students with the necessary skills to be successful in college level mathematics. Topics include operations with real numbers (including exponents and radicals) and algebraic expressions, ratios, proportions, linear inequalities, linear and quadratic equations in one variable, linear equations in two variables, systems of linear equations, and logarithms. Two classroom hours plus required lab hours. Three credit hours.

MATH 0322 Pre-Core Mathematics
This course is a continuation of Math 0321 and intended for students who have modules left to complete from Math 0321. Two credit hours.

MATH 0323 Pre-Core Mathematics
This course is a continuation of Math 0322 and intended for students who have modules left to complete from Math 0322. Two credit hours.

MATH 0324 Pre-Core Mathematics
This course is a continuation of Math 0323 and intended for students who have modules left to complete from Math 0323. Two credit hours.

MATH 1223 Introduction to Mathematics Software
Prerequisites: grades of C or greater in MATH 1302 and 1303, equivalent transfer courses. Symbolic and numerical manipulations in a Computer Algebra System (CAS); graphing; simple programming; spreadsheet fundamentals and mathematical typesetting. Four hours lab. Two credit hours.

MATH 1302 College Algebra
Prerequisite: A grade of C or greater in Math 0301 – Intermediate Algebra, a grade of AA, BA or CA in Math 0321 Pre-Core Mathematics, an equivalent transfer course, or an ACT Mathematics score of 21, or SAT Mathematics score greater than or equal to 500. Study of functions, including but not limited to, absolute value, quadratic, polynomial, rational, logarithmic, and exponential; systems of equations; and matrices. Three hours lecture. Three credit hours. (ACTS Course Number MATH 1103)

MATH 1303 Trigonometry
Prerequisite: a grade of C or greater in MATH 1302, an equivalent transfer course, or a suitable score on a mathematics placement test Corequisite with consent of instructor: MATH 1302. Circular functions and their graphs, identities, angles and their measure, functions of angles, right triangles, Law of Sines, Law of Cosines, inverses of circular functions, solutions of trigonometric equations, complex numbers, and DeMoivre’s Theorem. Three hours lecture. Three credit hours. (ACTS Course Number MATH 1203)

MATH 1311 Applied Calculus I
Prerequisite: a grade of C or greater in MATH 1302 or an equivalent transfer course or an ACT Mathematics score of 24. Not intended for mathematical science majors or minors. Introduction to differential and integral calculus of algebraic functions and their technical applications in the areas of optimization, mean values, and area. Three hours lecture. Three credit hours.

MATH 1312 Applied Calculus II
Prerequisites: grades of C or greater in MATH 1303 and either 1311 or 1451, or equivalent transfer courses. Differential and integral calculus of algebraic functions, transcendental functions, and vector-defined functions; integration techniques, parametric equations, and differential equations. Three hours lecture. Three credit hours.

MATH 1321 Quantitative and Mathematical Reasoning
Prerequisite: A grade of C or greater in Intermediate Algebra or an equivalent transfer course, or a grade of AQ, BQ, CQ, in any of UALR’s Pre-Core Mathematics courses (MATH 0321, MATH 0322, MATH 0323, MATH 0324), or a MATH ACT score of 21 or greater, or an SAT Mathematics score of 500 or greater. The overarching goal of Quantitative and Mathematical Reasoning is to provide students with mathematical understandings and skills to be productive workers, discerning consumers, and informed citizens. Students will solve problems using mathematical reasoning involving logic, proportions, algebra, and relations. In keeping with the tenets of student performance in a general education course, this course is designed to deliver instruction that focuses on process, conceptual understanding, communication and problem solving found in the following strands: (a) Personal, state and national finance (b) Statistics and probability (c) Mathematical modeling (d) Quantities and measurement. Students seeking a degree in a Non-STEM major are advised to take this course. Note: This course satisfies the state mandated requirement for the baccalaureate degree. Three hours lecture. Three credit hours. (ACTS Course Number MATH 1003)

MATH 1342 Business Calculus
Prerequisite: a grade of C or greater in MATH 1302, an equivalent transfer course, or a suitable score on a mathematics placement test. Differential and integral calculus with applications to economics and management sciences. Three hours lecture. Three credit hours.

MATH 1451 Calculus I
Prerequisites: grades of C or greater in MATH 1302 and 1303, equivalent transfer courses, or a suitable score on a mathematics placement test. Limits and limit theorems, continuity, derivatives and the chain rule, implicit differentiation, applications, the definite integral, the Fundamental Theorems of Calculus, and applications of integration. Three hours lecture. Two hours lab. Four credit hours. (ACTS Course Number MATH 2405)

MATH 1452 Calculus II
Prerequisite: a grade of C or greater in MATH 1451 or an equivalent transfer course. Integration, the definite and indefinite integrals, L’Hopital’s rule, improper integrals, Taylor polynomials, infinite series, power series, polar coordinates, and conic sections. Three lecture hours and two lab hours. Four credit hours. (ACTS Course Number MATH 2505)

MATH 2310 Discrete Mathematics
Prerequisite: a grade of C or greater in MATH 1302. Emphasizes applications of mathematics in computer science and other areas of modern technology. The topics include mathematical reasoning, set theory, proofs by induction, number systems, relations, directed graphs, trees, and related topics of study. Three credit hours. (ACTS Course Number MATH 2505)

MATH 2350 Introduction to Mathematical Proof
Prerequisite: a grade of C or greater in MATH 1451. An introduction to formal mathematical proof writing in the context of axiomatic systems. Symbolic logic, elementary set theory, methods of proof, mathematical induction, functions and relations, and additional topics in the context of axiomatic systems. Three credit hours.

MATH 2453 Calculus III
Prerequisite: a grade of C or greater in MATH 1452 or equivalent transfer course. Three-dimensional analytic geometry, vectors, lines, planes, partial derivatives, multiple integrals, line integrals, and gradient fields. Three lecture hours and two lab hours. Four credit hours. (ACTS Course Number MATH 2603)
MATH 3310 Algebraic Structures
Prerequisite: a grade of C or greater in MATH 2350. An introduction to modern algebraic structures. Topics include equivalence relations, groups, isomorphisms, direct products, rings, fields, and integral domains. Three hours lecture. Three credit hours.

MATH 3311 Number Theory
Prerequisite: a grade of C or greater in MATH 1302. Basic representation, the fundamental theorem of arithmetic, combinatorial and computational number theory, fundamentals of congruences, solving congruences, arithmetic functions, primitive roots, prime numbers, quadratic congruences, additivity. Three hours lecture. Three credit hours.

MATH 3312 Linear Algebra
Prerequisites: grades of C or greater in MATH 1312 or MATH 1452. Vector spaces, bases, polynomials, Cayley-Hamilton Theorem, invariant subspaces, linear transformations, eigenvalues and eigenvectors, selected applications, Jordan canonical form. Three hours lecture. Three credit hours.

MATH 3322 Introduction to Differential Equations
Prerequisite: a grade of C or greater in MATH 1452 (may be corequisite with consent of instructor). Methods of forming and solving some important types of ordinary differential equations and their application to selected physical and biological models. Three hours lecture. Three credit hours.

MATH 3324 Mathematical Models
Prerequisites: grades of C or greater in MATH 2453, 3312, STAT 3350. A study of selected topics from the physical and biological sciences demonstrating the interaction between model building and mathematical systems. Three hours lecture. Three credit hours.

MATH 3325 Mathematics of Optimization
Prerequisites: grades of C or greater in MATH 2453, 3312, STAT 3350. Linear programming, Simplex and revised simplex algorithms. Transportation problems, networks and flows, games and decisions. Three hours lecture. Three credit hours.

MATH 3330 College Geometry I
Prerequisite: a grade of C or greater in MATH 1451. A survey of secondary school geometry, the axiomatic method; Euclidean geometry; an introduction to non-Euclidean geometry. Three hours lecture. Three credit hours.

MATH 4100, 4200, 4300 Independent Study
Prerequisites: consent of department chairperson and supervising faculty member. Studies of assigned topics chosen to develop investigative, analytical, research, or professional skills related to mathematics, culminating in a written paper. Three hours lecture. One, two, or three credit hours.

MATH 4302 Complex Analysis
Prerequisite: a grade of C or greater in MATH 2350 and MATH 2453. Topological spaces, connectedness, compactness, separation axioms, metric spaces, sequences, completeness, Urysohn's metrization theorem. Additional topics selected from the Tychonoff theorem, compactifications, homotopy, the fundamental group, retractions and fixed points, the fundamental group of surfaces. Dual-listed in the UALR Graduate Catalog as MATH 5306. Three credit hours.

MATH 4304 Advanced Calculus I
Prerequisite: a grade of “C” or greater in MATH 2453 and 2350. Derivatives, mean value theorem, L'Hospital's rule, integration, sequences, and a series of functions. Dual-listed in the UALR Graduate Catalog as MATH 5303. Three hours lecture. Three credit hours.

MATH 4308 Topology
Prerequisite: a grade of C or greater in MATH 2350 and MATH 2453. Topological spaces, connectedness, compactness, separation axioms, metric spaces, sequences, completeness, Urysohn's metrization theorem. Additional topics selected from the Tychonoff theorem, compactifications, homotopy, the fundamental group, retractions and fixed points, the fundamental group of surfaces. Dual-listed in the UALR Graduate Catalog as MATH 5306. Three credit hours.

MATH 4310 Algebraic Structures II
Prerequisite: a grade of C or greater in MATH 3310. Continues the topics of Algebraic Structures I into more advanced topics of modern algebra including factor groups, polynomial rings, quotient rings, and extension fields. Three credit hours.

MATH 4320 Complex Analysis
Prerequisite: a grade of C or greater in MATH 2350, 3312, or equivalent courses; knowledge of a scientific programming language. Error analysis, fixed points and roots, interpolation, approximations, numerical differentiation and integration, linear systems, differential equations. Dual-listed in the UALR Graduate Catalog as MATH 5323. Three credit hours.

MATH 4325 Mathematics of Optimization
Prerequisites: grades of C or greater in MATH 2453, 3312, STAT 3350. Linear programming, Simplex and revised simplex algorithms. Transportation problems, networks and flows, games and decisions. Three hours lecture. Three credit hours.

MATH 4361 History of Mathematics I
Prerequisite: grade of C or greater in MATH 1452. This course will provide an overview of aspects of the history of mathematics from the Early Beginnings (before the sixth century B.C.), Classical Period (sixth century B.C. to fifth century), and Medieval and Renaissance Periods (sixth century to sixteenth century). This survey course discusses a broad range of the history of mathematics including a variety of topics over many consecutive time periods, and is organized so that there is more discussion than lecture. The course will consider both the growth of mathematical ideas and the context in which these ideas developed, in various civilizations around the world. Attention will be paid to how the history of mathematics or mathematical ideas is important in the teaching of these ideas in both secondary school and college. Three credit hours.

MATH 4362 History of Mathematics II
Prerequisite: grade of C or greater in MATH 1452. This course will provide an overview of aspects of the history of mathematics from the Early Modern Period (seventeenth and eighteenth centuries) and the Modern Period (nineteenth and twentieth centuries). This survey course discusses a broad range of the history of mathematics including a variety of topics over many consecutive time periods, and is organized so that there is more discussion than lecture. The course will consider both the growth of mathematical ideas and the context in which these ideas developed in various civilizations around the world. Attention will be paid to how the history of mathematics or mathematical ideas is important to the teaching of these ideas in both secondary school and college. Three credit hours.

MATH 4390 Senior Seminar
Prerequisites: senior standing and major status in the Department of Mathematics and Statistics. Students in the course prepare and present senior projects and portfolios, prepare and take Major Fields Assessment Test in mathematics, pick, solve, and submit the solution of a problem from the problem sections of professional journals. This course is offered in the fall semester only and is to be taken by mathematics majors planning to graduate in the fall or the following spring. Three credit hours.

MATH 4399-4399 Selected Topics
Prerequisite: consent of instructor. The content of this course changes on demand. For descriptive title of the content refer to the semester schedule. Dual-listed in the UALR Graduate Catalog at the 5000-level. One hour lecture for each hour credit. One, two, or three credit hours.
Courses in Mathematics Education (MATH)

The following courses are designed for the prospective early childhood, middle childhood, or secondary education teacher and cannot be used as part of the undergraduate major or minor in mathematics. For the courses appropriate to teacher licensure, contact the Department of Teacher Education.

MATH 3380 Mathematics I for Early Childhood
Prerequisites: admission to the early childhood/middle childhood education program (social studies/language arts specialty) and a grade of C or greater in MATH 1302 or 1315 or 1321. Problem solving, sets, system of whole numbers, system of integers, system of rational numbers, number theory, graphing, proportional reasoning, technology, and historical developments in mathematics. Includes mathematics content, teaching techniques, mathematics manipulatives, and technology. Emphasis on problem solving, reasoning, communication, and connections. Two hours lecture and two hours laboratory. Three credit hours.

MATH 3382 Mathematics II for Early Childhood
Prerequisites: admission to the early childhood education program and successful completion (C or greater) of MATH 3380. Second mathematics education course for early childhood education majors (no emphasis in mathematics). Problem-solving, estimation, number sense, development of computational algorithms, mental computation techniques, measurement of two- and three-dimensional objects, geometry, probability, data collection and analysis, technology, proportional reasoning, and historical developments in mathematics. The course includes mathematics content, teaching techniques, mathematics manipulatives, and technology. Emphasis on problem solving, reasoning, communication, and connections. Two hours lecture and two hours laboratory. Three credit hours.

MATH 3383 Mathematics for Middle School
Prerequisites: admission to the middle childhood education program (mathematics/science specialty) and a grade of C or greater in MATH 1302. First mathematics course specifically for middle childhood education (mathematics/science specialty) majors. Problem solving; sets; number systems including whole numbers, integers, rational numbers, and real numbers; number theory; algebra; graphing; matrices; proportional reasoning; technology; and historical developments in mathematics. The course includes mathematics content, teaching techniques, mathematics manipulatives, and technology. Emphasis on problem solving, reasoning, communication, and connections. Two hours lecture and two hours laboratory. Three credit hours.

MATH 4383 Technology in Math Education
Prerequisite: admission to the secondary education minor program, MATH 2453 and at least 12 upper-level hours in mathematics, or consent of instructor. Applications of technology in the secondary mathematics classroom. An overview of mathematics software appropriate for the secondary mathematics classroom. Emphasis throughout on problem solving, reasoning, communication, and connections. Required for secondary mathematics teacher licensure. Two hours lecture and two hours laboratory. Fall semester offering. Three credit hours.

Courses in Statistics (STAT)

STAT 2350 Introduction to Statistical Methods
Prerequisites: MATH 1302 or 1315 or 1321 or equivalent. Introduction to the fundamental ideas of statistics, including descriptive statistics, normal distributions, sampling experiments, tests of hypotheses, and elementary probability. This course cannot be applied as upper-level credit toward a major in mathematics. Three hours lecture. Three credit hours.

STAT 3350 Introduction to Probability
Prerequisite: a grade of C or greater in MATH 1452. Combinatorial theory, random variables, continuous and discrete distributions, expected value, jointly distributed random variables, conditional expectation, law of large numbers, central limit theorem. Three hours lecture. Three credit hours.

STAT 3351 Statistical Inference
Prerequisite: a grade of C or greater in STAT 3350. Point estimation, interval estimation, tests of statistical hypotheses, distribution free methods, regression, order statistics. Three hours lecture. Three credit hours.

STAT 3352 Applied Statistics I
Prerequisites: a grade of C or greater in either MATH 1451 or 1311. Measures of central tendency and variation, probability distributions, sampling distributions, tests of hypotheses, confidence intervals. Three hours lecture. Three credit hours.

STAT 3353 Applied Statistics II
Prerequisites: a grade of C or greater in STAT 3352; knowledge of a scientific programming language. Analysis of variance, factorial experiments, unequal subgroups, multiple regression and correlation, analysis of covariance, uses of chi-square tests, tests of independence, goodness of fit. Three hours lecture. Three credit hours.

STAT 4352 Distribution-Free Statistical Methods
Prerequisite: a grade of C or greater in STAT 3352 or its equivalent. Comparison of classical and distribution-free tests of hypotheses, test assumptions, efficiency and related characteristics, Fisher’s method of randomization, ranking tests, tests based on the binomial distribution. Three hours lecture. Three credit hours.

STAT 4354 Design and Analysis of Experiments
Prerequisite: STAT 3351. Factorial experiments, randomized block designs, Latin squares, Graeco-Latin squares, analysis of covariance, incomplete block designs, distribution-free methods. Three hours lecture. Three credit hours.
### Department of Nursing

**Interim Chairperson:**
Womack, Brenda A., Professor

**Associate Professors:**
Gilbert, Cynthia K.
Molsbee, C. Preston
Schafer, Patricia E.
Strickland, Lana D.

**Assistant Professors:**
Anderson, Amy
Benton, Bryan R.
Carmack, Jeffrey
Carmack, Mary V.
Davidson, Elizabeth S.
Evans, Jane
Freuchting, Sara K.
Graves, Sherrie
Jones, Janet
Jones, Jamie
Porter, Kimberly B.
Richardson, Leah
Rurup, Debra A.

**Instructors:**
Reeves, Melissa

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The UALR Department of Nursing offers a ladder curriculum that includes an Associate of Applied Science (A.A.S.) degree program to a Baccalaureate of Nursing (B.S.N.) Completion program.

The A.A.S. degree program is available in Traditional, Accelerated Traditional, LPN-RN Transition, and Paramedic-RN Transition formats.

### Nursing Program Options

- **Associate of Applied Science in Nursing**
- **Bachelor of Science in Nursing: RN to BSN**

To be eligible applicants must either/or:
- Be a UALR Ladder student in their final semester of the A.A.S. program
- Be a recent graduate of associate or diploma program
- Have a valid and unencumbered RN license

- **LPN/Paramedic to RN**

To be eligible applicants must:
- Have a valid unencumbered LPN or Paramedic license

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### General Information

#### Associate of Applied Science in Nursing Program

Students who are considering a career in nursing should be aware that no application for initial Registered Nurse (RN) licensure will be considered by the Arkansas State Board of Nursing without state and federal criminal background checks by the Arkansas State Police and the Federal Bureau of Investigation. The Arkansas State Board of Nursing shall refuse to issue the RN license to any person who is found guilty of or pleads guilty or *nolo contendere* to any offense listed in Act 1208 of 1999, for details refer to the Arkansas Nurse Practice Act Sub-Chapter on Licensing. Persons requesting initial licensure may request a waiver from the Arkansas State Board of Nursing. The Department of Nursing requires a state/national criminal background check and drug screening on all students upon admission and annual scheduled drug screenings thereafter. Results may prohibit entry and/or progression in the program. Clinical agencies used for nursing laboratory may require additional criminal background checks, scheduled drug screening, and/or random drug screens for nursing students. Results of agency screening may prohibit participation in clinical laboratory. Nursing students prohibited from participation in laboratory at a clinical agency will not be permitted to maintain enrollment in the nursing program.

A traditional and a traditional accelerated option is available for those students seeking initial licensure. A transition (fast-track) option is available for qualified LPN/LPTNs, and paramedics. Application and entry into these options does not require completion of all general core courses. Refer to application requirements. All options offer the knowledge, skills, and attitudes essential to the competent nurse and are taught in settings ranging from the classroom, campus skills, and simulation laboratories, to major area hospitals, outpatient facilities, and other health care facilities. The graduate is prepared to enter professional practice settings such as hospitals, long-term care facilities, physicians’ offices, and community settings. The course of study includes 31 credit hours in liberal arts and sciences and 34 lower-level nursing credits.

The Associate of Applied Science program is approved by the Arkansas State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN) 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326, (404) 975-5000. Upon completion of the curriculum, the graduate is eligible to apply to take the National Council Licensing Examination for Registered Nurses (NCLEX-RN). Information regarding the comparison of nursing programs (tuition, fees, and length of programs) may be obtained from ACEN.
Program Options

Traditional Option/Accelerated Traditional Option

The traditional option is offered summer (NURS 1300), fall, spring, fall, spring; the accelerated traditional option is offered summer (NURS 1300), fall, spring, summer, fall. All traditional option students complete NURS 1300 prior to unconditional admission.

Transition Option (LPN/LPTNs and Qualified Paramedics)

Transition option students initially enroll in NURS 1415 Nursing Role Transition, which prepares them for their roles as registered nurses (RN). Upon completion of the AAS program, students are awarded 10 credit hours in nursing for NURS 1300, NURS 1205, and NURS 1505. Students enter in May and complete the program the following May.

Transfer Students

Students previously enrolled in another nursing program must forward a letter requesting transfer and attach copies of all college/university transcripts. Letters and transcripts should be sent to the department chairperson. Students who are requesting transfer from another nursing program are also required to provide a letter of eligibility to reenter their previous nursing program in order to be eligible for consideration for entry into the UALR nursing program. If a student has failed a nursing course the request for transfer is classified as an academic reentry request and reentry policies apply. Students who have failed or withdrawn from more than one nursing course are not eligible for consideration for entry into the UALR nursing program.

Transfer equivalency information for required general education courses is available on the Arkansas Department of Higher Education website (acts.adhe.edu/). It is the responsibility of transfer students to confirm that transfer courses are equivalent to required general education courses.

Equivalencies and Credit by Examination

UALR offers credit by examination with some restrictions for courses; see Credit by Examination under the “Academics” section of this catalog. Credit by examination for NURS 1300, NURS 1205, and NURS 1505 is available to qualified paramedics and to diploma program transfers with certain restrictions. Information about credit by examination in nursing courses is available from the Department of Nursing.

Application/Admission Requirements

Application Requirements

The student must:

1. Be admitted to UALR with regular or conditional admission status and maintain a 2.0 GPA at UALR. Transfer students currently enrolled in other universities at the time of application will be considered for admission into the nursing program if the following documents are on file in the UALR Office of Undergraduate Admissions:
   • Completed UALR application form
   • Valid ACT or SAT scores, completed high school transcript or GED scores, and official college transcripts through the previous fall semester
   • Required immunization records

2. Obtain application advising from the Department of Nursing prior to submitting an application.

3. Have successfully completed or be eligible to enroll in MATH 1302 and in RHET 1311 or their equivalents. All developmental courses must be completed.

4. Have successfully completed or be enrolled in 4 credit hours of Anatomy and Physiology, either BIOL 1411 Introduction to Human Anatomy and Physiology I, BIOL 1412 Introduction to Human Anatomy and Physiology II, or equivalent. A three hour course will not meet this requirement.

5. Have a minimum GPA of 2.60 in required general education courses (detailed below) and a cumulative UALR GPA of 2.00 or greater. The GPA is based on the courses completed at the time of application.

6. Submit a completed Department of Nursing Application Form between January 1 and February 28. Enclose a copy of all college/university transcripts and scores for credit by examination in required general education courses. The first group of students will be accepted from this pool of applicants. The department continues to accept applications after the February 28th date and will admit additional students based on space availability.

7. Complete scheduled A2 EVOLVE Entrance Examination and request score submission to the department or submit score report with the application.

8. ESL students must have TOEFL scores of 83 (internet exam), 207 (computerized exam) or 540 (paper exam).

Admission Requirements

Students will initially be conditionally admitted to the nursing program. Upon completion of the following, students will be officially admitted to the nursing program:

• Successful completion of NURS 1300
• Submission of required documents by designated date (specified on letter of conditional admission)
• Maintenance of required GPA (required general education course(s) and UALR)
• Attendance at scheduled department orientation session

Transition Option (LPN/LPTNs and Qualified Paramedics)

Application Requirements

LPNs/LPTNs must:

• Be a graduate of a state board of nursing approved LPN or LPTN program.
• Have a current, unencumbered LPN or LPTN license in the State of Arkansas or a mutual recognition licensure recognized by the Arkansas State Board of Nursing Nurse License Compact.
• Meet advanced placement testing and work experience requirements:
  • Less than 12 months after LPN/LPTN graduation: No testing required for admission to Transition option.
  • Greater than 12 months after LPN/LPTN graduation: No testing required if during past 12 to 24 months have had at least 1000 hours of nursing employment. Employment verification letters must be provided with the application. Students who require advanced placement testing must successfully pass the Excelsior Fundamentals of Nursing Examination.
• Have proof of active employment as an LPN/LPTN over the last 2 years. Volunteer work is not considered active employment. Submit employment verification letter with application.

Paramedics must:

• Be a graduate of a paramedic program affiliated with an accredited college or university.
• Hold current certification from the Arkansas Department of Health as an Arkansas Paramedic and be currently registered as a paramedic with the National Registry of EMTs.
• Have proof of active employment as a paramedic for a minimum of 1,000 hours over the last 2 years. Volunteer work is not considered active employment. Submit employment verification with application.
• Successfully pass the Excelsior Fundamentals of Nursing Examination.
LPNs/LPTNs and Paramedics must:
• Be admitted to UALR with regular or conditional admission status and maintain a minimum GPA of 2.0 at UALR. Transfer students currently enrolled in other universities at the time of application will be considered for admission into the nursing program if the following documents are on file in the UALR Office of Undergraduate Admissions:
  • Completed UALR application form
  • Valid ACT or SAT scores, completed high school transcript or GED scores, and college transcripts through the previous fall semester
  • Required immunization records
• Obtain application advising from the Department of Nursing prior to submitting an application.
• Complete the NURS 1415 prerequisite courses or course equivalents with a grade of C or greater, (See NURS 1415 course description in the section that follows).
• Have a minimum GPA of 2.60 on all required general education courses completed at the time the application is made.
• Submit a completed Department of Nursing Application form. Applications must be received in the nursing office in January or February.
• Submit copies of all college transcripts, LPN/LPTN or paramedic transcripts, and proof of current licensure or certification with the application.
• Complete scheduled EVOLVE A2 Entrance Examination and request score submission to the department or submit score report with the application.
• ESL students must have TOEFL scores of 83 (internet exam), 207 (computerized exam) or 540 (paper exam).

Admission Selection Process
Qualified applicants will be selected into the program based on identified A2 Evolve scores and GPA in required general education courses completed at the time of application.
Acceptance into the traditional accelerated option is competitive. Additional information is located at the Department of Nursing website at http://ualr.edu/nursing/.

Qualified applicants who are not initially selected or who submit an application after February 28th will be placed on the waiting list in order of category and quality point totals. Quality points and required general education course grade point averages are recalculated after spring and summer semesters and waiting list rankings are adjusted as indicated. Spaces that become available prior to the beginning of the summer NURS 1300 course will be filled from the waiting list. The waiting list will not carry over to the next year; applicants not selected for admission must reapply each year. Documents submitted as a part of the application process become the property of the Department of Nursing.

Associate of Applied Science in Nursing
General: 65 minimum total hours, including 15 hours in residence.

First-Year Colloquium (0-3 hours)
Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

Core (19)
RHET 1311 Composition I
RHET 1312 Composition II
MATH 1302 College Algebra
CHEM 1400 Fundamentals of Chemistry

One of the following:
PSYC 2300 Psychology or
SOCI 2300 Introduction to Sociology

One of the following:
HIST 2311 US History to 1877 or
HIST 2312 US History since 1877 or
POLS 1310 American National Government

Second Language Proficiency (none required)

Major (46 hours)
Required Science Courses (12 credits)
BIOL 1411 Human Anatomy and Physiology I
BIOL 1412 Human Anatomy and Physiology II
BIOL 2401 Microbiology

Required Nursing Courses (34 credits)
NURS 1300 Essential Nursing Skills
NURS 1205 Health Promotion across the Lifespan
NURS 1505 Adult Nursing I
NURS 1410 Adult Nursing II
NURS 1420 Mental Health Nursing
NURS 2410 Obstetric and Reproductive Health Nursing
NURS 2420 Pediatric Nursing
NURS 2550 Adult Nursing III
NURS 2350 Competency for Entry into Practice

Electives (none required)

Minor (none required)

Unrestricted General Electives (none required)

Program Progression
Completion of the associate of science degree in nursing requires a minimum grade of C in all nursing courses and required general education courses. Progression in the nursing sequence requires a minimum grade of C in all the nursing courses and their prerequisites/corequisites. A minimum UALR cumulative grade point average of at least 2.00 on all work attempted at the University must be maintained.

Laboratory Credits
Laboratory credits include one credit for three hours of laboratory time.

Graduation Requirements
• Minimum UALR GPA of 2.0.
• Grade of C or greater in all required general education courses.
• Grade of C or greater in all required lower level nursing courses.
### Bachelor of Science in Nursing Program

The Bachelor of Science in Nursing (BSN) Completion option offers RN graduates, of either an associate or diploma program, an avenue to pursue a BSN. The BSN ladder program offers UALR AAS graduates a seamless transition into the final year of the nursing program. The course work for the BSN builds on the curriculum foundation of the core Registered Nurse program. It is available as an on-line program. The BSN program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326, (404) 975-5000. Additional information is located at the Department of Nursing website (http://ualr.edu/nursing).

### Application/Admission Requirements

The application form and application information are available at the website http://ualr.edu/nursing

BSN applicants must:

1. Be enrolled in, admitted or readmitted to UALR.
2. Have a current, unencumbered license as a RN to enroll in 4000 level nursing courses; or
3. Be a recent associate degree or diploma graduate to enroll in 3000 level nursing courses; or
4. Be a graduate from a basic RN program outside the United States with a current unencumbered USA, RN license; or
5. Be enrolled in the final semester of an associate degree or diploma RN program to enroll in NURS 3200-Informatics in Nursing or NURS 3220 Nursing Health Assessment I, or NURS 3230 Nursing Health Assessment II.
6. Have a grade of C or greater in a minimum of 12 credit hours of applicable general education courses beyond the associate of applied science degree.
7. Submit a completed Department of Nursing Application form and copies of all college and nursing transcripts to the DON before advising appointment.

Students who submit completed applications and meet all requirements for entry will be ranked by:

1. Date of complete application submission including completed application form, all required transcripts, and passport photos;
2. Grade Point Average (GPA) in lower level nursing courses and required general education courses.

Students who receive a letter of acceptance may enter the BSN program Spring, Summer, or Fall semester. Priority acceptance will be given to UALR AAS graduates in the ladder program. Students must respond to the acceptance letter and meet with an academic or faculty advisor prior to registration in BSN courses. A degree completion plan will be developed with the student at this time and signed by the advisor and student. Students are expected to adhere to the contracted 12 or 18 month degree completion plan. Requests for changes in a degree completion plan must be approved in advance.

### Bachelor of Science in Nursing

**General:** 125 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (31 hours)**

- RHET 1311 Composition I
- RHET 1312 Composition II
- MATH 1302 College Algebra
- PSYC 2300 Psychology
- SOCI 2300 Introduction to Sociology
- CHEM 1400 Fundamentals of Chemistry

**One of the following:**

- HIST 2311 US History to 1877 or
- HIST 2312 US History since 1877 or
- POLS 1310 American National Government

**One of the following:**

- MUHL 2305 Introduction to Music
- ARHA 2305 Introduction to Visual Arts
- DRTH 2305 Introduction to Theater and Dance

**One of the following:**

- ENGL 2337 World Lit
- ENGL 2338 World Lit Themes
- PHIL 2320 Ethics and Society

**One of the following:**

- HIST 1311 History of Civilization I
- HIST 1312 History of Civilization II

**Second Language Proficiency (none required)**

**Major (86 hours)**

**Required Science Courses (12 credits)**

- BIOL 1411 Human Anatomy and Physiology I
- BIOL 1412 Human Anatomy and Physiology II
- BIOL 2401 Microbiology

**Required Lower Level Nursing Courses (34 credits)**

Students may have 34 hours of lower level nursing courses waived for having a valid, unencumbered RN license.

**Required Upper Level Nursing Courses (34 credits)**

(Students must have a valid RN license or be a recent graduate of an approved nursing program prior to taking these courses)

- NURS 3220 Nursing Health Assessment I
- NURS 3230 Nursing Health Assessment II
- NURS 3310 Professional Nursing Role Development
- NURS 3420 Wellness Promotion and The Nurse Educator
- NURS 3430 Health Care Economics
- NURS 3440 Research and Evidence Based Practice
- NURS 3350 Ethics, Legalities, and Advocacy
- NURS 4415 Community Health Needs
- NURS 4420 Leadership and Management
- NURS 4430 Integration of Concepts

Students must achieve a C or greater in each of these courses.

**One of the following:**

- PSYC 2310 General Statistics
- PSYC 2340 Statistics and Methods
- STATS 2350 Intro Stat Methods
- SOCI 3381 Social Statistics

**One of the following:**

- RHET 3316 Writing for the Workplace
- RHET 3326 Technical Writing

**Minor (none required)**

**Unrestricted General Electives**

Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Note: Typically, a BSN student will have 8 upper-level unrestricted elective credits to fulfill.
The Department of Nursing offers the following upper level elective options:
NURS 3305 Informatics in Nursing
NURS 4110 Special Topics

Please note that the required statistics course is not a business statistics course.

Program Progression

Completion of the baccalaureate of science degree in nursing requires a minimum grade of C in all upper level nursing courses and required general education courses. Students who do not successfully complete NURS 3310 may not enroll in additional upper level nursing courses until a passing grade in NURS 3310 is earned. Students must maintain unencumbered RN licensure, maintain required nursing program documents and forms, and demonstrate professional conduct in the student role.

A minimum UALR cumulative grade point average of at least 2.00 on all work attempted at the University must be maintained. The program must be completed in three years from the date of initial enrollment in NURS 3310.

Integrated Practice Experience Credits (IPE)

Integrated practice experience credits include one credit hour for three hours of IPE time.

Graduation Requirements

- Minimum UALR GPA of 2.0.
- Grade of C or greater in all required general education courses.
- Grade of C or greater in all required upper level nursing courses.

Courses in Nursing (NURS)

Lower-Level Courses in Nursing (NURS)

NURS 1201 Medication Calculations for Nursing
An elective web-based course designed to provide nursing students with an understanding of medication calculations; Provides framework for understanding calculation of medication dosages by presenting terms, symbols, forms and methods commonly practiced by healthcare providers. Two credit hours.

NURS 1300 Essential Nursing Skills
Prerequisite: Conditional admission to the nursing program. An introduction for nursing students to essential psychomotor skills and professional behaviors required for the safe practice of nursing. Emphasis is on skill mastery. Three credit hours. (2 credits theory; 1 credit lab)

NURS 1301 Medical Terminology for Nursing
An elective web-based course designed to provide an understanding of medical terminology; Provides the framework for understanding medical records by presenting terms, abbreviations, symbols, forms and formats commonly used by healthcare providers. Three credit hours.

NURS 1205 Health Promotion Across the Lifespan
Prerequisite: Unconditional admission to the nursing program; Pre- or Corequisite: NURS 1505 and BIOL 1412. The course introduces the knowledge, skills, and attitudes as they relate to the concept of Health across the lifespan. Emphasis is on nurses' role in health risk reduction; learning needs assessment; accessing current evidence of practices to improve quality of life; collaborating with peers to develop patient centered risk assessments; and teaching plans to promote health in all life stages for individuals and families. Two credit hours.

NURS 1415 Nursing Role Transition
Prerequisites: BIOL 1411, 1412; MATH 1302 or higher; PSYC 2300 or SOCI 2300; RHET 1311, 1312; and one of the following: HIST 2311, 2312, or POLS 1310; CHEM 1400 or higher (excluding CHEM 1409); BIOL 2401 or equivalent. The course introduces LPNs, LPTNs, and paramedics to the knowledge, skills, and attitudes required for the registered nurse in patient centered care, teamwork and collaboration, evidence based practice, safety, quality improvement, and informatics. The concept of health will be explored through collaboration with peers to develop a patient centered risk assessment and teaching plan to promote health across the lifespan. Verification of mastery of essential psychomotor skills will be confirmed through completion of simulation activities. Web-based course with scheduled, mandatory class meetings. Summer term. Four credit hours.

NURS 1505 Adult Nursing I
Prerequisite: Unconditional admission to the nursing program. Pre or Corequisite: NURS 1205, BIOL 1412. An introduction to the nurse’s role in the delivery of patient centered care as a member of a multidisciplinary team with an emphasis on the growth and development in older adulthood, fundamental nursing assessment and interventions to promote functioning and comfort. Introduction to cultural considerations, pharmacology, physical and environmental safety, evidence based practice, legal/ethical principles, quality improvement, and informatics is incorporated through exemplars of chronic health problems and physical changes requiring acute or long term management. Learning activities include class and laboratory experiences in simulation, acute care, long-term care, and community settings. Five credit hours (3 credits theory; 2 credits lab).

NURS 1410 Adult Nursing II
Prerequisites: NURS 1205, NURS 1505, BIOL 1412. Builds on NURS 1505 with focus on coordination of patient centered care and the evidence base for planning priorities based on the health problem, symptoms, and patient/family beliefs and values. Exemplars include acute and chronic health problems common in middle adulthood that require multidisciplinary management. Students continue to develop nursing knowledge, skills, and attitudes in the competencies of safety, teamwork and collaboration, quality improvement, and informatics with laboratory experiences in simulation, structured health care settings, and completion of a service learning activity. Seven week course. Four credit hours (2 credits theory; 2 credits lab).

NURS 1420 Mental Health Nursing
Prerequisites for Traditional Option: NURS 1205, NURS 1505, BIOL 1412; prerequisites for Transition Option: NURS 1415. Builds on NURS 1505 with a focus on mental health/illness across the lifespan and communication with patients, families, and the health care team, including principles of conflict management. Exemplars include psychosocial assessment in acute and chronic mental illness, symptom management, and patient advocacy. Students continue to develop nursing knowledge, skills, and attitudes in the competencies of safety, teamwork and collaboration, evidence based practice, informatics through learning experiences in the classroom, acute care/community mental health facilities. Traditional option: Seven week course; Transition option: Summer term. Four credit hours (2 credits theory; 2 credits lab).

NURS 2199, 2299, 2399 Special Topics in Nursing
Prerequisites: NURS 1410 or NURS 1415, NURS 1420. An elective course that provides opportunity for second year nursing students to use clinical decision making and evidence based practice to explore and coordinate projects of their choosing as a health care professional in community and service learning settings. One, two, or three credit hours.
NURS 2201 Pharmacology for Nurses
Prerequisites: NURS 1505 or NURS 1415. An elective web-based nursing course presenting the essential concepts of pharmacology. Designed to promote clinical decision making and the integration of pharmacological concepts to meet health needs of individuals across the lifespan. Two credit hours.

NURS 2202 Diagnostic Studies in Nursing
Prerequisites: NURS 1505 or NURS 1415. An elective web-based nursing course presenting common laboratory and diagnostic tests and procedures commonly used in the diagnosis and treatment of common health problems. Designed to promote clinical decision making in patient preparation and education for procedures. Two credit hours.

NURS 2410 Obstetric and Reproductive Health Nursing
Prerequisites: NURS 1505 or NURS 1415. An elective web-based nursing course presenting common laboratory and diagnostic tests and procedures commonly used in the diagnosis and treatment of common health problems. Designed to promote clinical decision making in patient preparation and education for procedures. Two credit hours.

NURS 2420 Pediatric Nursing
Prerequisites: NURS 1410 or NURS 1415, NURS 1420, and MATH 1302. Pre or Corequisite: CHEM 1400 or higher (excluding CHEM 1409). A study of the current evidence base for patient centered care during the reproductive years, with emphasis on normal child-bearing processes. Exemplars illustrating expected processes and common problems that occur during childbearing will be used to facilitate students' application of decision making skills to prioritize care as a member of the multidisciplinary team. Students will provide patient/family discharge teaching and implement an original community teaching project to further develop skills in quality improvement and informatics. Laboratory experiences will take place in simulation, acute care and community settings. Traditional option: Seven week course; Traditional Accelerated option: Summer term. Four credit hours (2 credits theory; 2 credits lab).

NURS 2550 Adult Nursing III
Prerequisites: NURS 2410, NURS 2420, CHEM 1400 or higher (excluding CHEM 1409) Pre or corequisite: BIOL 2401. The focus of this course is to further develop the knowledge, skills, and attitudes related to clinical decision making in the delivery of nursing care to adults. Complex health problems will be incorporated through exemplars in which students must examine the current evidence base and prioritize care as a member of the multidisciplinary team. Students will collaborate in the development of a planned change related to safety needs across developmental stages in a variety of settings. Knowledge and skills related to quality improvement and informatics as they relate to care of children will continue to develop through classroom and laboratory experiences. Laboratory experiences will take place in simulation, acute care and community settings. Traditional option: Seven week course; Traditional Accelerated option: Summer term. Four credit hours (2 credits theory; 2 credits lab).

NURS 2350 Competency for Entry into Practice
Prerequisites: NURS 2550, CHEM 1400 or higher (excluding CHEM 1409). Pre or corequisite: BIOL 2401. The focus of this course is to support transition to the practice of nursing through synthesis of knowledge. Students will demonstrate the knowledge, skills, and attitudes in the competencies of patient centered care, evidence based practice, teamwork and collaboration, safety, quality improvement, and informatics. The competencies will be demonstrated within a structured preceptor supervised practicum, and during a practical management experience. Comprehensive review will support student readiness for the NCLEX-RN examination. Five weeks. Three credit hours (2 credits theory; 1 credit lab).

Upper-Level Courses in Nursing (NURS)

NURS 3220 Nursing Health Assessment I
Prerequisite: RN or enrolled in the final semester of an Accreditation Commission for Education in Nursing (ACEN) approved associate degree or diploma program with approval of department chairperson. This course is the first in a two course sequence that focuses on client assessment. It provides the knowledge, skills, and attitudes for competency that focuses on the role of the professional nurse in performing a comprehensive health history, physical, and psychosocial assessment. A variety of assessment tools and techniques are utilized. Further focus is on data collection and accurate documentation to communicate findings to the health care team. Two credit hours.

NURS 3230 Nursing Health Assessment II
Prerequisite: Grade of C or greater in NURS 3220. This course is the second in a two course sequence that focuses on client assessment. It provides the knowledge, skills, and attitudes for competency that focuses on the role of the professional nurse in performing a comprehensive health history, physical, and psychosocial assessment. A variety of assessment tools and techniques are utilized. Further focus is on data collection and accurate documentation to communicate findings to the health care team. Students are STRONGLY encouraged to take the course immediately following NURS 3220. Two credit hours.

NURS 3305 Informatics in Nursing (Elective)
Corequisite: NURS 2550 or consent of instructor. This course explores knowledge, skills and attitudes associated with accessing, managing, and communicating information, particularly on the creation, structure, and delivery of health related information with the use of technology. Further emphasis is on the use of information technology to improve practice and support life-long learning. Seven week course. Three credit hours.

NURS 3310 Professional Nursing Role Development
Prerequisite to all other required upper level nursing courses except Nursing 3220 and 3230. The course focuses on the process of the professional role of the nurse. Knowledge, skills, and attitudes related to QSEN competencies (EBP, T/C, QI, S, PCC, and I) in professional nursing and the BSN curriculum is included. A personal philosophy of nursing will be explored within the framework of various nursing theories. Seven week course. Three credit hours.

NURS 3350 Ethics, Legalities, and Advocacy
This course explores various ethical guidelines that inform and guide the decision making of nurses, including the framework of the American Nurses Association Code of Ethics. Emphasis is on the knowledge, skills, and attitudes included in the legal and ethical responsibilities of nurses in all aspects of care. Patient-centered care is explored from the perspective of advocating for the patient within the interdisciplinary team. Seven week course.
NURS 3420 Wellness Promotion
Corequisite: NURS 3310. Provides an overview of knowledge, skills, and attitudes inherent in the nurse’s role as educator. Emphasis is on principles of teaching and learning in diverse populations to implement evidence based practices to improve outcomes. Assessment of learning needs of patients and communities will be explored. The course will culminate with students designing an application project as an avenue for nurses to advance health. Seven-week term. Four credit hours (3 credit theory; 1 credit lab).

NURS 3430 Healthcare Economics
Corequisite NURS 3310. This course focuses on knowledge, skills, and attitudes that relate to factors affecting costs of health care. Students will research cost/benefit analyses related to quality outcomes in the business of health care. Current local, state and national health policy issues as they relate to patient centered care will be discussed from a nursing perspective. Application project will be completed. Seven week course. Four credit hours (3 credits theory; 1 credit lab).

NURS 3440 Research and Evidenced-Based Practice in Nursing
Prerequisite: PSYC 2310 General Psych Statistics or PSYC 2340 Statistics & Methods I or SOCI 3381 Social Statistics or STAT 2350 Intro to Stat Methods Concurrent: NURS 3310. This course provides an overview of scientific evidence integrated into nursing practice. The focus is on knowledge, skills and attitudes required for the research process, including evaluation and dissemination of best practices to improve health care outcomes. Further emphasis is on the significance of research as it contributes to the profession of nursing. Application project will be completed. Seven week course. Four credit hours (3 credits theory; 1 credit lab).

NURS 4415 Community Health Needs
Prerequisite NURS 3310. This course provides an introduction to knowledge, skills, and attitudes for community health nursing including issues related to public health and concepts of epidemiology. Emphasis is on health promotion and illness prevention or disease management of specified groups. Integrated practice project focus is on the professional nurse’s role in community assessment and development of an interventional project to meet identified community needs. Seven week course. Four credit hours (3 credits theory; 1 credit lab).

NURS 4420 Leadership and Management
Prerequisite NURS 3310. This course provides the opportunity to develop knowledge, skills and attitudes required for leadership and management in nursing. Leadership, organizational management and change theories are examined, with emphasis on conflict management, workplace diversity, resource allocation, quality and performance. The integrated practice project is designed to provide experiences to expand the application of leadership and management skills. Seven week course. Four credit hours (3 credits theory; 1 credit lab).

NURS 4430 Integration of Concepts
Prerequisite or Corequisite: All core general education courses NURS 3310, NURS 3420, NURS 3430, NURS 3440, and NURS 3350 completed. Major courses completed with the exception that one other 4000 level BSN nursing course or one upper level elective may be taken with NURS 4430. Must be taken in the final term. Instructor approval required. The course focuses on the synthesis of the essential competencies of the RN-BSN program in a systematic and comprehensive manner in order to provide a framework for the transition to the BSN role. The essential competencies are: Quality improvement, teamwork/collaboration, patient-centered care, evidence based practice, informatics, and safety. The integrated practice project is designed to provide experiences to expand the analysis and synthesis of these competencies. Seven week course. Four credit hours (3 credit theory; 1 credit lab).
The department offers two degrees:
1. Bachelor of Science
2. Bachelor of Arts

The Bachelor of Science degree prepares students for admission to graduate work in physics or astronomy. Students desiring a career in astronomy normally major in physics.

The Bachelor of Arts degree is for students who plan to specialize in graduate school without sacrificing the advantages of a liberal arts undergraduate education. This degree is also suitable for premedical students and others who do not plan professional careers in physics, including those students pursuing a career in secondary education. Minors are also offered in physics and astronomy.

The department uses a vast assortment of specialized equipment, including a 12-inch (on-campus) and 24 inch (off-site) remote computer-controlled telescope with electronic cameras. A survey of galaxies gives students the opportunity to work with real infrared imaging data and to use software employed at the National Optical Astronomy Observatories and the Hubble Space Telescope.

Other resources used by the department include Atomic Layer Deposition, Molecular Beam Epitaxy, and Laser Ablation devices to create and characterize nanostructures and solar cell materials.

Other resources used by the department include Atomic Layer Deposition, Molecular Beam Epitaxy, and Laser Ablation devices to create and characterize nanostructures and solar cell materials.

**General Information**

The department has active research programs in astronomy, astrophysics, condensed matter physics, material science, nanoscience and nanotechnology, optics, and solid state physics. The department has advanced research facilities for condensed matter physics, solid state, and nanoscience and nanotechnologies research. A state funded nanotechnology research center on campus also provides access to other state of the art equipment for research in these areas.

The department encourages the involvement of undergraduates in research. In recent years undergraduates have participated in research at Kitt Peak National Observatory, Steward Observatory, Lawrence Berkeley National Laboratory, Fermi National Accelerator Laboratory, Brookhaven National Laboratory, and research laboratories at the Department of Physics and Astronomy at UALR.

The department sponsors an active chapter of the Society of Physics Students and Sigma Pi Sigma, the physics honor society. Anyone interested in physics is invited to join the chapter.

**Admission Requirements**

Students interested in majoring in physics should contact the chairperson of the Department of Physics and Astronomy to declare a major and be assigned an advisor to help plan a schedule that will permit graduation in a timely manner. Students interested in majoring in physics are encouraged to discuss curricula and possible career opportunities with members of the physics and astronomy faculty before the end of the freshman year.

Students should take Calculus I (MATH 1451), a prerequisite for Physics for Scientists and Engineers I, early in their academic career. Entering students with preparation in calculus may enroll in Physics for Scientists and Engineers I in the first semester of the freshman year. Most upper-level physics courses require Calculus III (MATH 2453) as a prerequisite. Decisions regarding the equivalency of courses and situations in which students have tested out of courses will be made by the chairperson of the Department of Physics and Astronomy.

**Secondary Teacher Licensure**

This concentration is designed to prepare students for teacher licensure in secondary education (7th – 12th grades). Physics is the major emphasis of this program but mathematics and chemistry are secondary emphasis areas. Students entering this program will earn a B.A. in Physics. A minor in secondary education through the UALRTeach program is required. For those students who may be interested in teaching, please contact a physics advisor (physics@ualr.edu) and visit the UALRTeach website (ualr.edu/ualrteach).

**Honors Program in Physics**

The department offers an honors program to provide qualified students the opportunity to pursue advanced study and receive appropriate recognition. This program is distinct from graduation with honors and does not replace it. Interested students may apply for admission to this program after they have completed Physics for Scientists and Engineers I and II.

Participants in the honors program are selected by the department faculty during the junior year, usually before the second semester. Minimum requirements for admission into the program are a 3.25 grade point average overall and a 3.50 grade point average in all physics courses. These averages must be maintained for continued participation in the program.
Honors students must take at least four hours of independent study or undergraduate research related to a project in addition to the usual requirements for graduation. The study will be on an advanced topic and will involve research covering two to four semesters. The topic must be approved by the department chairperson, who will assign a faculty member to supervise the study. On successful completion of the project, the student must present the results of the study to an appropriate scientific body and submit a thesis, approved by the faculty supervisor, to the department chairperson.

**Degree Requirements**

The Bachelor of Science with a major in physics requires 36 credit hours including at least 28 credit hours of upper-level physics courses.

### Bachelor of Science in Physics

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

- Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**

See page 25 for requirement details.

**Second Language Proficiency (none required)**

**Major (36 hours)**

- **Physics Foundation Courses: (30 hours)**
  - PHYS 2321 Physics for Scientists and Engineers I
  - PHYS 2121 Physics for Scientists and Engineers I Laboratory
  - PHYS 2322 Physics for Scientists and Engineers II
  - PHYS 2122 Physics for Scientists and Engineers II Laboratory
  - PHYS 3323 Physics for Scientists and Engineers III
  - PHYS 3123 Physics for Scientists and Engineers III Laboratory
  - PHYS 3350 Electronics
  - PHYS 4111 Advanced Laboratory I
  - PHYS 4112 Advanced Laboratory II
  - PHYS 4310 Statistical Thermodynamics
  - PHYS 4311 Classical Mechanics
  - PHYS 4321 Electromagnetism I
  - PHYS 4350 Quantum Mechanics
  - PHYS 4190 Seminar

- **Plus any 6 hours from the courses below:**
  - PHYS 3330 Medical Physics
  - PHYS 4340 Solid State Physics
  - PHYS 4380 Wave Motion and Optics
  - PHYS 4330 Mathematical Methods in the Physical Sciences

- **Minor (12-29 hours—typical minor requires 18)**
  - Typical minors would include Math or Computer Science. Students can double major in an area instead of Major/Minor.

- **Unrestricted General Electives**
  - Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

### Bachelor of Arts in Physics

**General:** 120 minimum total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

- Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**

See page 25 for requirement details.

**Second Language Proficiency ( 0-9 hours)**

Completion of 2000-level second language course or demonstrate equivalent proficiency. See page 26 for details.

**Major (27 hours)**

- **Physics Foundation Courses: (27 hours)**
  - PHYS 2321 Physics for Scientists and Engineers I
  - PHYS 2121 Physics for Scientists and Engineers I Laboratory
  - PHYS 2322 Physics for Scientists and Engineers II
  - PHYS 2122 Physics for Scientists and Engineers II Laboratory
  - PHYS 3323 Physics for Scientists and Engineers III
  - PHYS 3123 Physics for Scientists and Engineers III Laboratory
  - PHYS 4111 Advanced Laboratory I
  - PHYS 4190 Seminar
  - PHYS 4311 Classical Mechanics
  - PHYS 4321 Electromagnetism I

- Plus seven additional credit hours of upper level physics courses.

- **Minor (12-29 hours—typical minor requires 18)**
  - Typical minors would include Math or Computer Science. Students can double major in an area instead of Major/Minor.

- **Unrestricted General Electives**
  - Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

### Bachelor of Arts in Physics Secondary Education

**General:** 127 total hours, including 45 hours of upper-level courses (3000-4000 level), and 30 hours in residence

**First-Year Colloquium (0-3 hours)**

- Required of full-time freshmen entering college for the first time and transfer students with less than 12 hours of credit. (See page 36 for details)

**Core (44 hours)**

See page 25 for requirement details.

**Second Language Proficiency ( 0-3 hours)**

Completion of 2000-level second language course or demonstrate equivalent proficiency.
Praxis I must be passed before enrolling in SCED or TCED courses. A GPA of 2.65 is required for admission to the education program. Praxis II must be passed prior to graduation.

Unrestricted General Electives
Remaining hours, if any, to reach 120 minimum total hours, 45 hours of upper-level courses (3000-4000 level), or 30 hours in residence.

Minor in Physics
A minor in physics requires at least 18 credit hours of physics courses. At least 10 credit hours of upper-level courses are required.

Required courses:
- PHYS 2321 Physics for Scientists and Engineers I
- PHYS 2121 Physics for Scientists and Engineers I Laboratory
- PHYS 2322 Physics for Scientists and Engineers II
- PHYS 2122 Physics for Scientists and Engineers II Laboratory
- PHYS 3323 Physics for Scientists and Engineers III
- PHYS 3123 Physics for Scientists and Engineers III Laboratory
- PHYS 4111 Advanced Laboratory I
- PHYS 4190 Seminar
- ASTR 1301 Introduction to Astronomy
- ASTR 1101 Introduction to Astronomy Laboratory
- ASTR 3401 Scientific Computing and Image Processing in Astronomy
- PHYS 3350 Electronics
- PHYS 3315 Teaching Physics in the Secondary School
- IGSC 4401 Integrated Science Methods
- MATH 1451 Calculus I
- MATH 1452 Calculus II
- MATH 2453 Calculus III
- ERSC 1302 Physical Geology
- ERSC 1102 Physical Geology Laboratory
- ERSC 1303 Historical Geology
- ERSC 1103 Historical Geology Laboratory
- ERSC 3310 Mineralogy
- or ERSC 3320 Field Geology I
- CHEM 1402 General Chemistry I
- CHEM 1403 General Chemistry II
- CHEM 2310 Analytical Chemistry I
- CHEM 2311 Analytical Chemistry II

One Course (3 hours) from:
- ERSC 4411 Petrology
- ERSC 3430 Structural Geology
- ERSC 3450 Sedimentology and Stratigraphy
- ERSC 3360 Paleobiology
- ERSC 3372 Surficial Hydrology

One Course (4 hours) from:
- ERSC 4480 Earth Systems I
- ERSC 4481 Earth Systems II
- CHEM 3350 General Organic Chemistry I
- CHEM 3150 Organic Chemistry Laboratory I
- CHEM 3351 General Organic Chemistry II
- CHEM 3151 Organic Chemistry Laboratory II

Students must complete a minor in secondary education consisting of 18 hours of courses in the College of Education. See “Secondary Teacher Licensure” on page 48 for information about these courses.

Courses in Astronomy (ASTR)
ASTR 1100 Observational Astronomy
An introduction to telescopes, the apparent movements of the sun, and constellations. Special facilities include the 12-inch computer-controlled telescope with electronic camera and the Planetarium. The course includes lectures, discussions, demonstrations, and laboratory experiments. Offered nights only. One credit hour.

ASTR 1101 Introduction to Astronomy Laboratory
Prerequisite or corequisite: ASTR 1301 or 1311. A laboratory course designed to accompany ASTR 1301. A variety of activities in data acquisition and analysis which tie concepts discussed in the classroom to real-world experiences. Open laboratory, the planetarium, and observatory activities. One credit hour. (ACTS Course Number PHYS 1204)

ASTR 1301 Introduction to Astronomy
Study of the process of science by which knowledge about our place in the cosmos is obtained. Examples of possible observations and the inferences drawn from them. Emphasis on how we obtain our knowledge and the certainty of various parts of it. A core curriculum course. Three credit hours. (ACTS Course Number PHYS 1204)

ASTR 2300 Intermediate Astronomy
MATH 0301 required. ASTR 1301 recommended. An Allegro-based astronomy course, with an emphasis on applying the tools of physics to understand the processes inherent in galaxies, cosmology and the structure and evolution of stars. Three hours lecture per week. Spring only.
PHYS 1320 Musical Acoustics
Prerequisite or corequisite: PHYS 1320. Laboratory facilities are available for determining the pitch of musical sounds; filtering music; speech; sine, square, and triangular waves; analyzing the spectrum of sounds; determining one's threshold of hearing; electronic synthesis of sounds; studying noise pollution; and measuring reverberation time. Two hours laboratory. One credit hour.

PHYS 1321 Elementary Physics I
Prerequisite: MATH 0301 or equivalent, high school physics or PHYS 1311 or equivalent, or consent of instructor. Introduction to the fundamental principles underlying the foundations of classical and modern physics. An algebra-based course designed for majors in the life sciences, pre-professional students, and engineering technology students but is open to any student who meets the prerequisites. Three hours lecture, one hour optional discussion. Three credit hours. (ACTS Course Number PHYS 2014)

PHYS 1322 Elementary Physics II
Prerequisite: PHYS 1321. Continuation of PHYS 1321. Three hours lecture, one hour optional discussion. Three credit hours. (ACTS Course Number PHYS 2024)

PHYS 1381 Applied Physics I
Prerequisite or corequisite: PHYS 1332. Two hours laboratory. One credit hour. (ACTS Course Number PHYS 2024)

PHYS 1382 Applied Physics II
Prerequisites: PHYS 1381, 1181. A continuation of PHYS 1381 with applications in electricity and magnetism, optics, and modern physics. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 1182 Applied Physics II Laboratory
Prerequisite or corequisite: PHYS 1382. Two hours laboratory. One credit hour.

PHYS 2321 Physics for Scientists and Engineers I
Prerequisite: MATH 1304 or 1451. A calculus-based introduction to the fundamental principles underlying classical physics and modern physics and the applications of those principles in science and engineering. Three hours of lecture and one hour optional discussion. Three credit hours. (ACTS Course Number PHYS 2034)

PHYS 2322 Physics for Scientists and Engineers II
Prerequisites: PHYS 2321 and MATH 1305 or 1452. Continuation of PHYS 2321 for students majoring in physics, astronomy, chemistry, computer science, engineering, geology, information science, mathematics, and systems engineering. Topics include electricity, magnetism, optics, relativity, and quantum physics. Three hours of lecture and one hour optional discussion. Three credit hours. (ACTS Course Number PHYS 2044)

PHYS 2121 Physics for Scientists and Engineers I Laboratory
Prerequisite or corequisite: PHYS 2321. Two hours laboratory. One credit hour. (ACTS Course Number PHYS 2034)

PHYS 2122 Physics for Scientists and Engineers II Laboratory
Prerequisite or corequisite: PHYS 2322. Two hours laboratory. One credit hour. (ACTS Course Number PHYS 2044)
PHYS 2391 Cooperative Education Work Experience I
Prerequisite: consent of department chairperson. Corequisites: PHYS 1321, 1121 or PHYS 2321, 2121. Designed to enhance college education through career exploration in astronomy, engineering physics, or physics. A minimum of nine hours work per week. Exact number of hours will depend on the nature of the work experience and will be specified by a contract. Three credit hours.

PHYS 3123 Physics for Scientists and Engineers III Laboratory
Prerequisite or corequisite: PHYS 3323. Three hours laboratory. One credit hour.

PHYS 3260 Laboratory Techniques in Nuclear Physics
Prerequisite: PHYS 2322. An introduction to the equipment and laboratory techniques of experimental physics: accelerators, vacuum systems, particle optics and kinematics, detection and analysis of nuclear radiations, and electronic instrumentation. Two hours lecture, one hour optional discussion. Two credit hours.

PHYS 3315 Teaching Physics in the Secondary School
Prerequisite: consent of instructor. A study of physics laboratory experiments and demonstrations available for secondary school physics courses. Three hours lecture. Three credit hours.

PHYS 3320 Physics of the Earth
Prerequisites: PHYS 2322; CHEM 1401 or 1403. Fundamental problems in solid earth geophysics: precession, wobble, and tidal friction; seismology and the internal structure of the earth; origin of the geomagnetic field; physical properties of mantle materials; and radioactivity and the age of the earth. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 3323 Physics for Scientists and Engineers III
Prerequisites: PHYS 2322 or 1322 and MATH 2306, 1452 or 2453. A continuation of topics in relativity and quantum physics introduced in PHYS 2322 or 1322 for students majoring in physics, astronomy, chemistry, computer science, engineering, geology, information science, mathematics, and systems engineering. Three hours of lecture and one hour optional discussion. Three credit hours.

PHYS 3330 Medical Physics
Prerequisites: PHYS 1321, 1322 or 2321, 2322. The applications of the concepts, methods, and principles of physics to the diagnosis and treatment of human disease. Three hours lecture. Three credit hours.

PHYS 3330 Medical Physics Laboratory
Prerequisite or corequisite: PHYS 3330. Approximately 18 hours of hospital time supplemented by laboratory work in the Physics Department. Three hours laboratory. One credit hour.

PHYS 3350 Electronics
Prerequisites: PHYS 2322, or 1322 and consent of the instructor. An introduction to digital circuit concepts and basic systems. Digital measurements, switching concepts and logic, flip-flops and multivibrators, counters and registers, digital and analog digital systems. Nine hours laboratory. Three credit hours.

PHYS 3380 Astronautics
Prerequisites: PHYS2321, 2121, ASTR 1301, 1101. The development of astronautics with emphasis on the extension of aviation into aerospace and the impact of the space age on our society and culture. An introduction to the fundamentals of rocket and space vehicle development, propulsion, dynamics, transfer orbits, and space navigation. Three hours lecture. Three credit hours.

PHYS 3391 Cooperative Education Work Experience II
Prerequisites: major in physics, junior standing, and consent of department chairperson. Further work experiences to enhance college education through an internship in astronomy, engineering physics, or physics. A minimum of nine hours work per week. The exact number of hours will depend on the nature of the work experience and will be specified by a contract. Three credit hours.

PHYS 4190 Seminar
Presentation of selected papers by students, faculty members, and invited speakers at weekly departmental meetings. Discussions, analysis, and implications of theoretical and experimental studies in the physical sciences. One hour. One credit hour.

PHYS 4111, 4112 Advanced Laboratory I
Prerequisite: consent of instructor. Advanced experiments to acquaint the student with the problems and techniques of research activities. Equipment such as a 12-inch computer-controlled telescope with electronic camera, a 17-inch heliostat, and audio spectrum analyzers are available for student use. The advanced laboratory exposes the student to modern research techniques and provides many traditional laboratory experiences. Three to six hours of laboratory. One or two credit hours.

PHYS 4112, 4212 Advanced Laboratory II
Prerequisite: PHYS 4111 or 4112. Continuation of PHYS 4111 or 4112. Three to six hours laboratory. One or two credit hours.

PHYS 4100, 4200, 4300 Independent Study
Prerequisite: consent of chairperson. Individual research by the advanced student. Topics determined on the basis of faculty interest and availability. One to three hours per credit hour. Exact time and nature of the experience will depend on the particular subject of the independent study and will be agreed on at the beginning of the term by the student and the instructor. One, two, or three credit hours.

PHYS 4310 Statistical Thermodynamics
Prerequisites: PHYS 2322, 3323. A microscopic, unified approach to thermodynamics and statistical mechanics with applications to ideal gases, including blackbody radiation and conduction electrons, magnetic systems, the Debye model, and chemical and phase equilibria. Dual-listed in the UALR Graduate Catalog as PHYS 5310. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4311 Classical Mechanics
Prerequisites: PHYS 2321, MATH 2306 or 1452, or consent of the instructor. Concepts of Newtonian mechanics, dynamics of particles and systems of particles, gravitation, vector analysis, dynamics of rigid bodies, moving coordinate systems, continuous media, small oscillations, and the methods of Lagrange and Hamilton. Dual-listed in the UALR Graduate Catalog as PHYS 5311. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4321 Electromagnetism I
Prerequisite: PHYS 2322. Includes the Coulomb and Gauss laws, the Poisson and Laplace equations and solutions in several coordinate systems, electric and magnetic energy, AC and DC circuits, Ampere’s and Faraday’s laws, the vector potential, Maxwell’s equations, and the propagation of electromagnetic waves. Dual-listed in the UALR Graduate Catalog as PHYS 5321. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4322 Electromagnetism II
Prerequisite: PHYS 4321. Continuation of PHYS 4321. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4330 Mathematical Methods in the Physical Sciences
Prerequisite: MATH 2306 or 1452. Review of vector calculus, differential equations of physics, and techniques of solution. Fourier series, statistics, probability, error theory, partial differentiation, and functions of a complex variable. Dual-listed in the UALR Graduate Catalog as PHYS 5330. Three hours lecture, one hour optional discussion. Three credit hours.
PHYS 4331 Modern Physics I
A more detailed treatment of the topics of PHYS 3323. Relativity, quantum mechanics, statistical physics, atomic and nuclear physics, and elementary particles. Dual-listed in the UALR Graduate Catalog as PHYS 5331. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4332 Modern Physics II
Prerequisite: PHYS 4331. Continuation of PHYS 4331. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4340 Solid State Physics
Prerequisite: PHYS 3323. Structure of crystals, dispersion relations, specific heat, phonons, electric and magnetic properties of insulators and metals, band theory of metals, insulators and semiconductors, superconductivity. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4350 Quantum Mechanics I
Prerequisite: PHYS 3323. Concepts and history of quantum mechanics, experimental basis, the uncertainty principle, the Schrödinger equation with applications to simple systems, the hydrogen atom, perturbation theory, the interpretations of quantum mechanics, symmetry principles. Dual-listed in the UALR Graduate Catalog as PHYS 5350. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4360 High Energy and Nuclear Physics
Prerequisite: PHYS 3323. Properties of the nuclei, nuclear structure and stability, quark-gluon structure of hadrons, thermodynamics of large ensembles of hadrons, nuclear reactions, instrumentation and accelerators. Dual-listed in the UALR Graduate Catalog as PHYS 5360. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4370 Advanced Theoretical Physics
Prerequisite: consent of instructor. Topics vary with the experience and interests of students. Some possible topics are scattering of waves, plasma physics, atmospheric physics, fluid dynamics, and quantum optics. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4375 Planetarium Management
Prerequisites: ASTR 1301, 1101, consent of instructor. Administration, supervision, and management of planetariums in schools, colleges, museums, and other situations, involving such topics as role and scope, personnel, budgets, publicity, planning, and use of planetariums in the contemporary scene. Especially recommended for planetarium directors. Three hours lecture. Three credit hours.

PHYS 4376 Planetarium Technology
Prerequisites: ASTR 1301, 1101, consent of instructor. Production and presentation of programs at all levels using the Planetarium and its auxiliary equipment. Special emphasis on planetarium astronomy, programming, operations, maintenance of equipment, and the technical aspects of the planetarium field. Especially recommended for those planning to enter into a planetarium career. Three hours lecture. Three credit hours.

PHYS 4380 Wave Motion and Optics
Prerequisite: PHYS 2322. The wave equation and solutions, wave propagation, coherence, interference, diffraction, polarization, refraction and reflection, dispersion, the interactions of light with matter, Huygens' principle, optical instruments, quantum optics. Dual-listed in the UALR Graduate Catalog as PHYS 5380. Three hours lecture, one hour optional discussion. Three credit hours.

PHYS 4199, 4299, 4399, 4499 Special Topics
Prerequisite: Consent of instructor. Advanced, specialized topics of current interest in physics and astronomy. Dual-listed in the UALR Graduate Catalog at the 5000-level. One, two, three, or four hours of lecture or equivalent per week. One, two, three, or four credit hours.
History

The University of Arkansas at Little Rock was founded in 1927 as Little Rock Junior College under the supervision of the Little Rock Board of Education. The first semester there were eight instructors and about 100 students. By 1929, the college was accredited by the North Central Association of Colleges and Schools, a status it has kept through changes in size and status.

Housed at first in public school buildings, the college moved in 1949 to its present location in southwest Little Rock on a beautifully wooded site donated by Raymond Rebsamen, a Little Rock businessman. By that time, the college was the sole beneficiary of a continuing trust established by former Governor George W. Donaghey.

The institution began a four-year degree program in 1957. At that time, the University was independent and privately supported under a separate board of trustees and took the name Little Rock University.

In September 1969, after several years of discussion and study, Little Rock University merged with the University of Arkansas System to create the University of Arkansas at Little Rock. That was a major step in the creation of a multi-campus system. Within this structure, UALR is state supported, operationally separate, and specifically oriented toward serving the educational needs of Arkansas.

The University of Arkansas merger began a period of rapid growth, which saw UALR go from about 3,500 students and 75 full-time faculty members in 1969 to about 12,000 students and over 500 full-time faculty members today. The University’s expanded offerings now include more than 140 undergraduate and graduate degrees, an extensive schedule of night, weekend, as well as extended programs. We also provide a wide range of community educational services. UALR began offering graduate and professional work in 1975 and the UALR Graduate School was created in 1977. UALR now offers doctoral programs, juris doctorates, graduate and professional programs, as well as joint programs with other campuses of the University of Arkansas System.


Mission

University of Arkansas System Mission

The University of Arkansas System is a comprehensive, multi-campus, publicly-aided institution dedicated to the improvement of the mind and spirit through the development and dissemination of knowledge. The University embraces and expands the historic trust inherent in the land-grant philosophy by providing access to academic and professional education, by developing intellectual growth and cultural awareness in its students, and by applying knowledge and research skills to an ever-changing human condition. (Adopted by the University of Arkansas Board of Trustees, 1989)

Most universities today develop and publish statements explaining their purposes and describing their programs. Official boards that govern a campus or coordinate its activities in relation to other campuses also develop and publish such statements. For UALR there are mission statements and role and scope statements developed at three levels: the University of Arkansas System, the statewide coordinating board, and the campus. Although not identical, the statements are similar and consistent in content, each reflecting a different perspective from a different level of responsibility.

The mission statement typically is brief, general, and philosophical. It states why the institution exists. It addresses fundamental purposes and permanent commitments. It distinguishes the university from other societal institutions such as a church, a factory, a political party, or an elementary school.

The role and scope statement is more concrete and specific than the mission statement. Elements of a role and scope statement have only relative permanence. The role and scope statement distinguishes one university from other universities. Each university campus has a role to play in a larger cast of actors. Thus role and scope statements tend to be of particular concern to officials responsible for governing or coordinating multiple university campuses.

The role and scope statement typically discloses the nature and range of the institution’s responsibilities and activities: geographical service area; disciplines in which programs are provided; levels of degree offerings, e.g., associate, baccalaureate, master’s, doctoral; dominant characteristics of the student clientele; other constituencies to be served; emphasis areas; and sometimes future directions.

Included in this chapter are the mission statement of the University of Arkansas System, the role and scope statement for UALR adopted by the University of Arkansas Board of Trustees, and the role and scope statement for UALR published by the Arkansas Department of Higher Education and adopted by the Arkansas Higher Education Coordinating Board. They are followed by the current mission, objectives, and role and scope statements developed at UALR.
UALR Mission

The mission of the University of Arkansas at Little Rock is to develop the intellect of students; to discover and disseminate knowledge; to serve and strengthen society by enhancing awareness in scientific, technical, and cultural arenas; and to promote humane sensitivities and understanding of interdependence. Within this broad mission are the responsibilities to use quality instruction to instill in students a lifelong desire to learn; to use knowledge in ways that will contribute to society; and to apply the resources and research skills of the University community to the service of the city, the state, the nation, and the world in ways that will benefit humanity. (Adopted by the UALR Faculty Senate, 1988)

UALR Objectives

The University, through its various programs, works toward six mission objectives:

1. **Excellence in Instruction:** The University has a responsibility to provide excellence in instruction to ensure high-quality education for our students. This responsibility includes developing faculty teaching skills, awareness of the ways students learn, assessing student learning outcomes, and enhancement of resources to support effective instruction.

2. **Scholarly Inquiry:** The University has a responsibility to use scholarly inquiry to advance the discovery, preservation, and dissemination of knowledge. This responsibility includes the creation of a university environment that supports diverse research activities by faculty, staff, and students.

3. **Service to Society:** The University has a responsibility to serve society through the application of knowledge and research skills. This responsibility includes applying the University’s resources to local, state, national, and international needs in order to improve the human condition.

4. **Community of Learning:** The University has a responsibility to provide a community of learning through creation of an academic environment that stimulates students, faculty, and staff to become lifelong learners. This environment should heighten the intellectual, cultural, and humane sensitivities of students, faculty, and staff.

5. **Accessibility:** The University has a responsibility to serve the needs of a heterogeneous student population and to make its resources accessible to the general public and to local, state, national, and international groups. This responsibility includes creating opportunities for access to the University’s academic and other resources.

6. **Responsiveness:** The University has a responsibility to remain responsive to a changing environment and society. This responsibility includes a continuous assessment of the University’s strengths and weaknesses in planning for and meeting internal and external needs. It also includes developing the faculty, staff, and students’ desire and capacity in order to create an academic community that is open to change and ready to meet the demands of a dynamic environment and student body.

(Adopted by the UALR Faculty Senate, 1988)

UALR Role and Scope Developed by the University of Arkansas Board of Trustees

The University of Arkansas at Little Rock (UALR) is a Carnegie “Doctoral/Research University” offering a comprehensive range of undergraduate, master’s, and doctoral programs, and a first professional degree in law. Due to its location in the state’s capital city and largest, most complex metropolitan area, the demand for UALR to offer graduate, professional, and doctoral education continues to increase, and, thus, post-baccalaureate offerings will become a larger part of the institution’s instructional program. Because of its metropolitan location, UALR assumes a special role in relation to the needs of urban areas in modern society in its instruction, research, and public service programs. UALR recognizes and accepts that in the 21st Century universities are critical to regional and state economic development.

UALR serves a diverse student body. While it serves traditional students as do most other universities, UALR also serves large numbers of nontraditional students who enroll part-time, commute to campus, have job and family responsibilities, and may be older. The university also enrolls international students from more than 50 countries. Honors courses and a nationally recognized undergraduate scholars program respond to the needs of superior students while students with developmental needs are afforded organized assistance in meeting their educational goals. UALR emphasizes excellence in teaching by all faculty. Developing technological competence in students receives particular attention.

UALR is strongly committed to research and public service. Faculty engage in applied and basic research appropriate to their academic disciplines and in response to economic development needs and other state and regional needs. The university is committed to supporting research and development, often in cooperative relationships, leading to intellectual property and commercialization. UALR’s public service mission is reflected in numerous outreach activities by individual faculty members, academic units, and a number of specialized units established to provide assistance and expertise to organizations and groups in the community and across the state.

Partnerships are very important to UALR for they enable the university to extend its reach, increase its effectiveness, and leverage its resources. UALR works with other institutions of higher education—particularly the University of Arkansas for Medical Sciences, the University of Arkansas Cooperative Extension Service, the University of Arkansas Clinton School of Public Service, and Pulaski Technical College—to coordinate instructional programs. UALR partners with and complements the research activities of the University of Arkansas for Medical Sciences. UALR gives and receives benefit from partnerships with businesses, schools, governmental offices, neighborhood groups, cultural organizations, and nonprofit organizations. (Adopted by the University of Arkansas Board of Trustees, 1978; revised 1982, 1989, 1991, 2006)
UALR Role and Scope Developed by the Arkansas State Board of Higher Education

Audiences

As the state’s metropolitan university, the University of Arkansas at Little Rock (UALR) has the responsibility for serving:

- Residents of Arkansas and the Little Rock metropolitan area who have completed a high school education and are seeking either a college degree or continuing professional education. As a metropolitan university, the institution serves adult, part-time students in particular.
- Employers across the state, particularly in the region, both public and private, seeking well-educated employees, technical assistance and applied research.
- Economic development interests and entrepreneurs in the region and across the state.
- The research community.
- The community and area by providing a broad range of academic and cultural activities and public events.
- Area K-12 schools seeking college general education courses for advanced students.
- Two-year college transfer students.

Array of Programs and Services

UALR serves these audiences by providing:

- Baccalaureate programs in arts and humanities, the natural sciences, and social sciences appropriate to a teaching institution with a predominantly undergraduate student body.
- Associate, baccalaureate and masters programs in the professional fields of particular importance in the region, including journalism and communications, public administration and community services, computer and information science, nursing, human services (including social work and criminal justice), education, engineering, and business.
- Doctoral programs most needed by regional and state employers, most importantly programs in education and applied science.
- Services specifically designed to meet the needs of statewide and regional economic development—continuing professional education, technical and professional services, support of small businesses and entrepreneurs, and technology transfer.

Special Features

Institute for Economic Advancement

Nanotechnology Center

UALR-UAMS joint academic and research programs.


UALR Role and Scope Developed by the UALR Faculty Senate

The University of Arkansas at Little Rock offers certificates and degree programs at the associate, baccalaureate, master’s, specialist, and doctoral levels. Disciplines in which degrees are offered include applied science, the arts; business, health, and public administration; communication; education; engineering technology; the humanities; law; social, physical, and life sciences; and social work. The institution emphasizes the liberal education of undergraduate students and offers more focused professional study, particularly at graduate levels.

The University of Arkansas at Little Rock, taking advantage of its metropolitan location, offers programs and services that respond to the special needs and interests of individuals, organizations, institutions, businesses, and governmental units. Academic programs, student services, research activities, public service projects, and institutional policies reflect the University’s commitment to a diverse student body composed of recent high school graduates, students returning to school after other experiences, retirees, international students, disabled students, and professionals seeking career change or enrichment. A significant percentage of these students attend school part-time and work full- or part-time. As a result, many UALR students bring experience and a high level of motivation into the classroom.

The University of Arkansas at Little Rock strives to make higher education accessible to all those who can benefit. The institution’s academic courses are offered in flexible and varied time periods and learning formats, at off-campus locations as well as in traditional classrooms, and by radio, telecommunication, and newspaper. In all of these forms the quality of instruction is of paramount importance. The University has a nationally recognized scholars program and curriculum, honors courses, and other programs for superior students. Specialized programs and assistance are offered to educationally disadvantaged students. The University is committed to international education, supporting programs and courses that attract international students and offer opportunities for all students to explore and experience other cultures.

The University of Arkansas at Little Rock recognizes its responsibility to contribute to bodies of knowledge through research as well as to disseminate ideas through instruction. The University fosters both basic and applied research appropriate to its programs and faculty. The University supports grant applications and other attempts to gain sponsorship for research. Many research activities address the problems of Arkansas as it interacts with an increasingly complex and interdependent world.

The University of Arkansas at Little Rock shares its resources with the larger community through public service. Activities include noncredit educational offerings ranging from college preparatory classes to courses for personal enrichment and awareness; special programs for pre-collegiate students; programs for professional advancement; and institutes and centers to focus research and study on such areas as teaching and learning, technology, government, management, and urban affairs. The University serves the State of Arkansas in economic development through assistance from businesses, seminars for managers and workers, and support for entrepreneurial ventures. The University provides leadership in cultural enrichment and makes its resources available to the community. Relationships with local, state, and national governments and with business and industry strengthen the curriculum and provide students and faculty opportunities to apply theory and research.

The University anticipates continued growth in the number of students and in the number and size of academic programs. The primary aim of the University in all of its varied activities will continue to be maintaining and improving the quality of education for all its students. (Adopted by the UALR Faculty Senate, 1988)
**Assessment**

Units across campus regularly engage in research to assess UALR’s success in meeting these objectives. Assessment at UALR is designed to help the academic programs – whether core, undergraduate, or graduate – focus on what should be taught in the program and whether it is being taught successfully.

This involves a variety of methods of inquiry to examine student needs, attributes, and success in learning. Each academic unit at UALR has an assessment program to conduct research that will be used to make decisions to improve its curriculum, instruction, and both academic and career advising. Students, alumni, and various stakeholders participate in a variety of assessment activities designed to assess learning in the major and in the core curriculum.

**Academic Organization**

The University of Arkansas at Little Rock falls under the University of Arkansas System. A complete listing of the Administration and Staff is found in the back of this catalog.

The Chancellor is the executive officer of UALR. The Provost and Executive Vice Chancellor of Academic Affairs is the chief academic officer of UALR and provides academic and administrative leadership in the area of academic and faculty affairs. All of our programs of study fall under a specific department or school, which in-turn fall under a specific college. Please see the chart below.
Educational, Student Services, and Student Life

The Division of Educational and Student Services provides quality support and services to UALR’s students, and maintains relationships with academic departments, students, and community groups. The Vice Chancellor for Educational and Student Services has the general responsibility for coordinating services to students. These services include Admissions and Financial Aid, Records and Registration, the UALR Bookstore, Counseling and Career Planning, dining services, Disability Resource Center, fitness and aquatics, Health Services, Housing, intramural and recreational activities, orientation programs, student activities, and Testing Services and Student Life Research. Please see the chart below.

Office of the Vice Chancellor for Enrollment Management:

The Division of Educational and Student Services provides quality support and services to UALR’s students, and maintains relationships with academic departments, students, and community groups. The Vice Chancellor for Educational and Student Services has the general responsibility for coordinating services to students. These services include Admissions and Financial Aid, Records and Registration, the UALR Bookstore, Counseling and Career Planning, dining services, Disability Resource Center, fitness and aquatics, Health Services, Housing, intramural and recreational activities, orientation programs, student activities, and Testing Services and Student Life Research. Please see the chart below.

Other Administrative Areas

Office of the Vice Chancellor for Information Services:
Computing Services, Desktop Support Services, Management of Information Systems, and Networks

Office of the Vice Chancellor for Finance and Administration:
Administrative Services, Human Resources, Facilities Management, Public Safety, Bursar, Financial Services, Mail Services, and Purchasing

Office of the Vice Chancellor for University Advancement:
Children International

Office of the Vice Chancellor for Development:
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Daryl Rice, Associate Vice Chancellor for Academic Affairs, Faculty and Administrative Affairs
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Kimberly Bright, Director of the Academic Student Success
Paula Casey, Interim Vice Provost for Research/Dean of the Graduate School

Office of the Vice Chancellor for Educational and Student Services
Logan Hampton, Interim Vice Chancellor for Educational and Student Services
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Sharon Downs, Director of the Disability Resource Center
Logan C. Hampton, Division Chief, Director of Donaghey Student Center
Marie Sandusky, Director of Health Services
Debra Gentry, Director of Housing
Linda Barker, Director of Educational Talent Search (TRIO)
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UALR Undergraduate Catalog
Office of the Vice Chancellor for Enrollment Management
Dean Kahler, Vice Chancellor for Enrollment Management
Tammy Harrison, Division Chief for Enrollment Planning Services
Katie Young, Director of Admissions
Joyce Hail, Director of Records and Registration
Malissa Mathis, Director of the Office of Transfer Student Services

Office of the Vice Chancellor for Enrollment Management
Dean Kahler, Vice Chancellor for Enrollment Management
Tammy Harrison, Division Chief for Enrollment Planning Services
Katie Young, Director of Admissions
Joyce Hail, Director of Records and Registration
Malissa Mathis, Director of the Office of Transfer Student Services

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Annette Murdock Tangye, Director of Human Resources
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Edward Smith, Director of Public Safety

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Gary Hogan, Assistant Director of Athletics/External Operations
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John Barron, Director of Athletic Performance
Chasse Conque, Director of Development
Jan Dannaway, Coordinator of Student-Athlete Academic Support Services
John Evans, Stephens Center Manager
Andrea Nunez, Director of Sales/Senior Woman Advisor
The following terms are used in this Catalog and in everyday conversations at UALR. You are encouraged to review these terms to better understand campus terminology.

**AAGE**
The acronym stands for Arkansas Assessment of General Education.

**Academic Clemency**
This is a policy whereby students who have been away from UALR for at least two full years can petition to remove earlier course work from their UALR academic record. The purpose of the policy is to allow students a second chance in college. See the Student Handbook for more information.

**Academic Discipline**
This term refers to an organized body of knowledge. Most academic departments are organized around an academic discipline. Some departments contain more than one discipline (the Department of Sociology and Anthropology, for example). As a general guideline, anything listed as a separate group of courses in the class schedule is an academic discipline.

**Accreditation**
Accreditation is a way a university or its programs are measured against national standards. There are two kinds: university-wide and specialized. For UALR, accreditation of the entire University is done by the North Central Association of Colleges and Schools, one of several regional accrediting associations. This accreditation means, among other things, that your work at UALR will be recognized at any other accredited institution and vice versa. Degree programs with specialized accreditation are listed under “Guide to UALR” in this Catalog. Do not be surprised if your major field is not listed; many areas do not have accrediting agencies.

**Assessment**
The University is continuously evaluating its programs to make sure that they are not only well focused on what they should teach, but also teaching it effectively.

**Associate Degree**
Usually called the two-year degree, an associate degree requires completion of a minimum of 62 credit hours. At UALR each associate degree is designed so the credit can also be applied toward a related baccalaureate degree at UALR or elsewhere.

**Baccalaureate Degree**
Also called the bachelor’s degree, this is the standard undergraduate college degree. It is often thought of as the four-year degree, but some students complete it in three years, and some take as long as six to seven years or longer. Most require at least 120 credit hours.

**CAAP**
The acronym stands for Collegiate Assessment of Academic Proficiency.

**CEU**
Continuing Education Units are the national standard for certifying certain kinds of educational offerings that are formal and structured but not applicable toward a degree. Such work is aimed at professional development or personal enrichment. One CEU is awarded for 10 clock hours of instruction. See also "Noncredit Work.”

**CLEP**
The acronym stands for College Level Examination Program, a national program through which students can obtain college credit in certain areas by taking a comprehensive examination and making a certain score. See also “Testing Out” in this glossary.

**Competency**
UALR’s curriculum is designed to help students develop nine fundamental competencies: aesthetic experience, critical thinking, ethical and moral consciousness, historical consciousness, international awareness, mathematics, philosophy and methods of science, social and cultural awareness, and verbal literacy.

**Cooperative Education**
Cooperative Education is an academic program for qualified students who would like to combine classroom study with academically related paid employment. “Co-op” creates opportunities for students locally in business, government, industry, and social service agencies.

**Core Curriculum (General Studies)**
The core curriculum at UALR is a requirement designed to provide a foundation for the student’s further academic and professional activities. Required of all students seeking baccalaureate degrees, the core curriculum includes options from across the disciplines, including arts, humanities, sciences, and social sciences. The core courses are designed to help students develop nine fundamental competencies. All core courses include active teaching and learning strategies, reading and writing experiences, and critical thinking activities. See also “Competencies” in this glossary.

**Corequisite**
A corequisite is a course that has to be taken at the same time as another course. If a course has a corequisite, the course description in this Catalog specifies it. See also “Prerequisite” in this glossary.

**Course Number**
A four-digit numbering system used to designate each course at UALR. The first digit identifies the level of the course: 1 for freshman, 2 for sophomore, 3 for junior, 4 for senior, 5 and above for graduate-level courses. The second digit is the number of credit hours. The last two numbers are assigned by the department, sometimes arbitrarily and sometimes in a specific pattern, depending on the department. Thus, ENGL 2337 is a sophomore-level, three-credit-hour course.

**Credit Hours**
This is the standard unit of measurement for university-level work applicable toward a degree. One credit hour is equal to one 50-minute class period per week, per semester. Thus, the usual three-credit-hour course is based on meeting 50 minutes a day three days a week for a semester. For laboratory work, one credit hour is equal to two or three hours of laboratory work. Thus, a laboratory that meets for one three-hour session once a week for a semester would have one hour of credit. The term “credit hours” is often shortened to “hours,” as in “a baccalaureate degree requires at least 124 hours of work.” UALR measures its work in semester credit hours; if you’re transferring from a college that uses quarter hours, the Office of Records and Registration will convert them into semester hours for you.

**Degree**
The term “degree” refers to a designation such as bachelor of arts, bachelor of science, bachelor of science in education, bachelor of business administration, and a few other general designations. UALR offers seven undergraduate degrees. All UALR undergraduate majors are grouped under one of these headings. See the list of degrees and majors in “Academic Programs and Requirements” in this Catalog.

**Department, College, and School**
A department is the basic administrative unit at UALR. It consists of a group of faculty members and their chairperson. The department appoints faculty, develops courses and programs, and advises students. Departments with related interests (e.g., accounting, economics and finance, management, and marketing and advertising) are organized into colleges. Academic administrative units without departments are called schools (e.g., School of Law).
Developmental Courses
Courses at the "0" level (0300, 0301, 0600, etc.) are developmental courses and do not count toward the 124-hour minimum for graduation; nor do grades received count in the cumulative grade point average.

Discipline
See “Academic discipline” in this glossary.

Elective
An elective is any course that is not required, either by the University’s core requirements or by the requirements of a major or minor. Many degree programs described in this Catalog will list the number of elective hours available. Electives may complement the rest of a student’s work or be taken just for fun.

Field Experience
The UALR curriculum includes a number of courses that allow or require students to work for credit in a professional or career setting. Sometimes this is part of a regular course; other times it is a separate course. In the latter case, the course may have in its title an expression such as “cooperative education,” “field experience,” “internship,” “practicum,” “special project,” or “student teaching.”

General Studies
See “Core Curriculum” in this glossary.

Grade Point Average (GPA)
The grade point average is a way of mathematically computing academic performance. It is determined by assigning a value to each letter grade, multiplying by the number of credit hours in the course, and dividing by the total number of hours attempted. The GPA is the standard measure for retention and graduation requirements. UALR is on a four-point system, which means that an A grade is assigned a value of four points (sometimes called quality points), a B three points, a C two points, a D one point, and an F zero points. Here’s an example of a grade point average for one semester: Divide the total hours (16) into the total grade points (35) to find the GPA of 2.18 (slightly above a C average). The UALR cumulative GPA is based on all college-level work taken at UALR. Your semester grade report will show both the semester and the cumulative GPA. (Some developmental course grades are excluded from the GPA. Please see “Developmental Courses” in this glossary.)

Hours
See “Credit hours” in this glossary.

Lower-level
Freshman and sophomore courses (UALR course numbers beginning with 1 or 2) are called lower-level courses. See also “Upper-level.”

Major
A major is a degree-seeking student’s primary area of academic concentration. Students are encouraged to declare a major as soon as possible by filling out the declaration of major form in the Office of Academic Advising. All UALR majors require at least 27 credit hours of work in the major, and some require more. A few, called major/minors, require up to 60 credit hours of work in a single field and do not require a minor. See also “Minor” in this glossary.

Matriculation
A term used to refer to the act of enrolling in the University. When, for example, transfer students are notified that certain parts of their transcripts will be evaluated “after matriculation,” that means after they have formally enrolled at UALR.

Minor
A minor for a degree-seeking student is a secondary area of concentration. Most UALR minors consist of 18 to 24 credit hours. A minor is required in all baccalaureate degree programs unless the major program specifies that a minor is not required. (This occurs in some concentrated programs where the major, or the major-minor, requires a large number of credit hours.)

Noncredit Work
This refers to a variety of UALR educational offerings that are not applicable to a degree. It includes some of the work in the Center for Developmental Skills and most of the professional development classes offered through off-campus credit. CEU work is also noncredit work. See also “CEU” in this glossary.

Prerequisite
A prerequisite is a course you have to take before you can take another course. For example, ACCT 2310 Principles of Accounting is a prerequisite to ACCT 2330 Principles of Accounting II. If a course has a prerequisite, it is listed in the course description in this Catalog. See also “Corequisite” in this glossary.

Residency
There are two primary uses for this term. The first use applies to the school at which a student takes course work. UALR graduates must take their last 30 hours of work for a baccalaureate degree or their last 15 hours of work toward an associate degree in residence. That means the credit work must be taken at UALR. All credit work offered by UALR is considered in residence, whether day or night, on- or off-campus. The second use of the term “residence” pertains to where a student lives. UALR, like all state-supported colleges and universities in Arkansas, charges a higher tuition fee to out-of-state students. If you have just moved to the state, contact the Office of Admissions for the legal definition of “residence” for tuition purposes.

Section
You will see this term most often in connection with the class schedule and registration. It refers to each offering of the same course at a different time and with a different instructor. For example, SPCH 1300 Speech Communication (the speech course required for all undergraduate students) is one course, but in any semester the department may offer as many as 25 or 30 sections of it, each at a different time or with a different instructor. When registering, be sure you enroll in the section, as well as the course, you want.

Testing-out
This phrase refers to receiving college credit by making an appropriate score on a comprehensive test in a certain area. UALR offers such tests in two ways: those designed by UALR departments and those designed by national programs such as CLEP. There is a charge for taking such tests. Contact the Office of Testing Services and Student Life Research for details. See also “CLEP” in this glossary.

Transcript
This is the continuous, formal, and official record of your work at a university. If you are a transfer student, you are required to request that the Office of Records and Registration at all universities you have attended previously send an official transcript to UALR. The transcript lists all courses you take, grades, major and minor, and degree awarded. An unofficial and incomplete version of it, sometimes used by advisors, is called a worksheet.

Undergraduate
This term refers to academic work leading to the associate or baccalaureate degrees and to students working toward those degrees. It is usually seen in comparison to “graduate,” which refers to academic work taken by students who already have a baccalaureate degree.

Upper-level
Junior and senior courses (UALR course numbers beginning with 3 or 4) are called upper-level courses. A baccalaureate degree requires a minimum of 45 upper-level credits. A major requires a minimum of 45 upper-level credit hours. See also “Lower-level” in this glossary.
Adams, Alois J.  
Associate Professor of Applied Science  
A.B., University of Dallas  
Ph.D., University of Florida

Agarwal, Nitin  
Associate Professor of Information Science  
B.Tech., Indian Institute of Information Technology  
Ph.D., Arizona State University

Akhnoukh, Amin K.  
Associate Professor of Construction Engineering  
B.S., Cairo University  
M.S., Kansas State University  
Ph.D., University of Nebraska-Lincoln

Al-Rizzo, Hussain  
Professor of Systems Engineering  
B.Sc., M.S., University of Mosul  
Ph.D., University of New Brunswick

Al-Shukri, Haydar J.  
Associate Professor of Applied Science  
B.S., M.S., University of Baghdad  
Ph.D., Saint Louis University

Ali, Nawab  
Research Assistant Professor of Graduate Institute of Technology  
B.S., M.S., Ph., Ph.D., Aligarh University

Amrhein, Laura M.  
Associate Professor of Art  
B.A., James Madison University  
M.A., Ph.D., Virginia Commonwealth University

Anderson, Charles M.  
Professor of Rhetoric and Writing  
B.A., Texas Lutheran College  
M.ACT., University of Tennessee  
Ph.D., University of Iowa

Anderson, Gary T.  
Professor of Systems Engineering  
B.S.E.E., Rice University  
M.S., Ph.D., University of Texas at Austin

Anderson, Joel E.  
Professor of Political Science  
B.A., Harding College  
M.A., American University  
Ph.D., University of Michigan

Anson, Edward M.  
Professor of History  
B.A., Drake University  
Ph.D., University of Virginia

Ashby, Wendy  
Assistant Professor of German  
B.A., Weber State University  
M.A., Bowling Green State University  
Ph.D., University of Arizona

Atncherson, Samuel  
Associate Professor of Audiology  
B.S.Ed., University of Georgia  
M.Ed., University of Georgia  
Ph.D., University of Memphis

Babiceanu, Radu F.  
Associate Professor of Systems Engineering  
B.S., Polytechnic University of Bucharest  
M.S., University of Toledo  
Ph.D., Virginia Tech

Bacott, Hunter  
Professor of Public Administration  
M.P.A., University of North Carolina at Charlotte  
Ph.D., University of Tennessee

Bailey, Janet L.  
Professor of Management  
B.B.A., University of Texas-Pan American  
Ph.D., University of North Texas

Bains, Ann B.  
Professor of Nursing/Interim Dean, College of Science  
B.S.N, MSN, University of Central Arkansas  
Ed.D., University of Arkansas at Little Rock

Bakr, Mamdouh M.  
Professor of Mechanical/Manufacturing Engineering Technology  
B.S., Cairo University  
M.S., Ph.D., Purdue University

Baldwin, Deborah  
Dean, College of Arts, Humanities, and Social Sciences/Professor of History  
B.S., Ball State University  
Ph.D., University of Chicago

Baltossler, William H.  
Professor of Biology  
B.A., Western New Mexico University  
M.S., Ph.D., New Mexico State University

Bandre, Patricia E.  
Assistant Professor of Reading Education  
B.S., Baker University  
M.S., Kansas State University  
Ph.D., The Ohio State University

Barnes, Amy  
Associate Professor of School of Mass Communications  
B.A., Arkansas Tech University  
M.A., University of Arkansas at Little Rock

Barrett, T. Greg  
Professor of Educational Leadership  
B.A., Emory University  
M.B.A., Georgia State University  
M.A., Ph.D., University of Michigan

Barrio-Vilar, Laura  
Assistant Professor of English  
B.A., Universidad de Santiago de Compostela  
M.A., Ph.D., University of Kentucky

Bayrak, Coskun  
Professor of Computer Science  
B.S., Slippery Rock University of Pennsylvania  
M.S., Texas Tech University  
Ph.D., Southern Methodist University

Belford, Bob  
Associate Professor of Chemistry Education  
Ph.D., Arizona State University

Bell, Joseph  
Professor of Management  
B.A., Bloomberg University  
M.B.A., Michigan State University  
J.D., T.M. Cooley Law School

Bell-Tolliver, LaVerne  
Associate Professor of Social Work  
B.A., Drury College  
M.S.W., University of Arkansas at Little Rock  
M.A., Dallas Theological Seminary  
Ph.D., Texas Women’s University

Berleant, Daniel  
Professor of Information Science  
B.S., Massachusetts Institute of Technology  
M.S., Ph.D., University of Texas at Austin

Berry, Brian  
Assistant Professor of Organic Chemistry  
B.S., M.S., Ph.D., University of Arkansas at Little Rock

Bhattacharyya, Abhijit  
Professor of Systems Engineering  
B.T., Indian Institute of Technology  
M.S., Ph.D., Rutgers University

Biris, Alexandru  
Professor of Systems Engineering  
B.S., M.S., University of Cluj  
Ph.D., University of Arkansas at Little Rock

Blacklock, James R.  
Professor of Construction Engineering Technology  
B.S.C.E., Texas A&M University  
M.S.C.E., Southern Methodist University  
Ph.D., University of Arizona
Blevins-Knabe, Belinda
Professor of Psychology
B.A., M.A., Ph.D., University of Texas

Boateng, Kwasi
Associate Professor of Mass Communication
B.A., University of Cape Coast
M.A., M.A., Ph.D., Ohio University

Boden-McGill, Carrie
Associate Professor of Education
B.A., Bethel College
M.F.A., Wichita State University
Ph.D., Kansas State University

Bouaynaya, Nidhal
Associate Professor of Systems Engineering
B.S., Ecole Nationale Superieure
M.S., Illinois Institute of Technology
M.S., Ph.D., University of Illinois at Chicago

Boury, Robert W.
Professor of Music
B.M., Manhattan School of Music
M.M., D.M.A., University of Michigan

Brown, Jane H.
Professor of Art
B.F.A., University of Texas
M.A., Ph.D., University of North Carolina at Chapel Hill

Brown, Nickole
Assistant Professor of English
B.A., University of Louisville
M.F.A., Oxford University

Bruhn, Russel E.
Professor of Information Science
B.S., University of Wisconsin, Stevens Point
B.S., Bemidji State University
M.S., Iowa State University of Science and Technology
Ph.D., Washington State University

Burgin, John
Associate Professor of Early Childhood Education
B.A., Hendrix College
M.S., Ed.S. Indiana University at Bloomington
Ph.D., University of Arkansas at Fayetteville

Burns, Ralph
Professor of English
B.A., University of Texas
M.F.A., University of Montana

Bush, John M. IV
Associate Professor of Biology
B.S., M.S., Louisiana Tech University
Ph.D., Louisiana State University

Bush, Keith
Assistant Professor of Computer Science
B.S.E., University of Pennsylvania
M.S., Ph.D., Colorado State University

Byrne, Jamie M.
Interim Dean, College of Professional Studies
Professor of Mass Communications
B.S., M.S., Murray State University
Ph.D., University of Kentucky

Carenbauer, Michael
Professor of Music
B.A., Berklee College of Music
B.A., Bowdoin College
M.A., M.M., University of South Florida

Carmack, Jeffrey
Instructor of Nursing
B.S.N., University of Arkansas-Little Rock

Carmack, Mary
Assistant Professor of Nursing
B.S.N., University of Arkansas-Little Rock

Carr, James K.
Professor of Construction Management
B.S.E., Clarion State College
M.S., University of Oklahoma

Cates, Kevin
Associate Professor of Art
B.A., M.A. University of Arkansas at Little Rock
M.F.A., University of Memphis

Chan, Yupo
Professor of Systems Engineering
B.S., M.S., Ph.D., Massachusetts Institute of Technology

Cheatham, Rosalie M.
Assistant Professor of French
B.A., University of Arkansas at Little Rock
M.A., University of Illinois

Chen, Tar-Pin
Professor of Physics
B.S., Chung Yuan University
M.S., University of Waterloo
Ph.D., State University of New York

Chiang, Chia-Chu
Professor of Computer Science
B.B.A., Soochow University
M.S., Eastern Michigan University
Ph.D., Arizona State University

Clemmer, Ann V.
Instructor in Political Science
B.A., M.A., Arkansas State University

Clemmons, Karina
Assistant Professor of Education

Clifton, Thomas G.
Professor of Art
B.F.A., Minnesota State University-Moorhead
M.F.A., Savannah College of Art and Design

Collier-Tenison, Shannon
Associate Professor of Social Work
B.A., Hendrix College
M.S.W., Ph.D., George Warren Brown School of Social Work

Cellitti, Mirtha Anarella
Associate Professor of Teacher Education
B.A., Instituto Universitario Pedagogico de Caracas
M.A., University of Houston
M.A., Ph.D., University of South Carolina

Connelly, Jeffrey B.
Professor of Earth Science
B.A., The College of Wooster
M.S., Bowling Green State University
Ph.D., University of Tennessee

Copeland, Nita J.
Senior Instructor in Health, Human Performance & Sport Management
B.A., MAT, Harding University

Corwyn, Robert
Professor of Psychology
B.S., M.A. University of Arkansas at Little Rock
Ph.D., Memphis University

Cox, Cassandra
Associate Professor of Mathematics
B.A., Hendrix College
M.A., Ph.D., Washington University

Cox, Earnest
Associate Professor of Rhetoric and Writing
B.A., M.A., University of Arkansas at Little Rock
Ph.D., Texas Christian University

Crisp, Catherine
Assistant Professor of Social Work
B.A., Rutgers University of New Jersey
M.A., University of Kansas
Ph.D., University of Texas

Crisp, Sally C.
Senior Instructor in Rhetoric and Writing
B.A., University of Arkansas at Little Rock
M.A., University of Arkansas, Fayetteville
Ed.D., University of Arkansas at Little Rock
Cui, Jingbiao
Assistant Professor of Physics and Astronomy
B.S., Anhui University
M.S., Ph.D., University of Science and Technology

Cui, Jintao
Assistant Professor of Mathematics
B.S., Dalian University of Technology
Ph.D., Louisiana State University.

Dagtas, Serhan
Professor of Information Science
B.S., Bilkent University
M.S., Ph.D., Purdue University

Dailey, Cynthia
Associate Professor of Accounting
B.A., M.A., Henderson State University
Ph.D., Louisiana Tech University

Darsey, Jerry A.
Professor of Chemistry
B.S., Ph.D., Louisiana State University

Dearman, David
Associate Professor of Accounting
B.S., University of Arkansas at Little Rock
M.B.A., Arkansas State University
Ph.D., University of Memphis

Delaney, Jason
Assistant Professor of Economics
Ph.D., Georgia State University

Deiser, Andrew J.
Associate Professor of Spanish
B.S., Indiana Purdue University
M.A., Ph.D., Indiana University

Dhonau, Stephanie
Associate Professor of Education
B.S., Georgettough University
M.A, Colorado State University
Ed.D., University of Arkansas at Little Rock

Dorn, Linda
Professor of Teacher Education
B.S., University of Tennessee at Martin
M.Ed., University of Arkansas at Little Rock
Ph.D., Texas Women’s University

Drale, Christina S.
Associate Vice Chancellor for Academic Affairs / Professor of Mass Communications
B.A., M.A., Ph.D., University of California,
San Diego

Driskill, Gerald W.
Professor of Speech Communication
B.A., M.A., Abilene Christian University
Ph.D., University of Kansas

Driver, Stephen
Assistant Professor of Art

Drummond, Andrew J.
Associate Professor of Political Science
B.A., Indiana University, Bloomington
M.A., Ph.D., University of California, Irvine

Duyar, Ibrahim
Professor of Educational Administration
B.S., M.A., Ankara University
M.S., Ph.D., University of Wisconsin, Madison

Eaton, Elizabeth E.
Instructor / Clinical Supervisor of Audiology and Speech Pathology
B.A., Baylor University
M.A., Texas Woman’s University

Edison, Steven W.
Associate Professor in Marketing and Advertising
B.S., North Dakota State University
M.B.A., Gonzaga University
Ph.D., Texas Tech University

Edwards, Timothy
Associate Professor of Journalism
B.A., Southern Arkansas University
M.S.M.C., Arkansas State University
Ph.D., University of Kentucky

Elder, Erick M.
Professor of Economics
B.S., Allegheny College
M.S., Ph.D., University of Pittsburgh

Elsalloukh, Hassan
Associate Professor of Statistics
B.S., Henderson State University
M.S., University of Arkansas at Little Rock
Ph.D., Baylor University

Estes, Sarah Beth
Associate Professor of Sociology / Anthropology
B.A., Hendrix College
M.A., Ph.D., University of Iowa

Farewell, Stephanie
Associate Professor of Accounting
B.B.A., M.ACC, Ph.D., University of Oklahoma

Faucett, John M.
Associate Professor of Psychology
B.A., Hendrix College
M.S., Ph.D., Tulane University

Faust, Judith
Instructor of Social Work
B.S., University of Kansas
M.S.W., Tulane University

Felan III, Joe T.
Associate Professor of Management
B.B.A., M.B.A., Baylor University
Ph.D., University of South Carolina

Fetterly, James, M
Assistant Professor, Teacher Education Department
A.A., Central Baptist College
B.S.E., M.A., University of Central Arkansas
Ed.S., Ph.D., Florida State University

Finzer, Erin S.
Assistant Professor of Spanish
Ph.D., University of Kansas

Fisher, David
Associate Professor of Rhetoric and Writing
B.A., Drury College
M.A., Clemson University
M.S., University of Missouri
Ph.D., Iowa State University

Flinn, Juliana
Professor of Anthropology
A.B., Barnard College
M.P.H., Columbia University School of Public Health
Ph.D., Stanford University

Franklin, Jennifer L.
Assistant Professor of Audiology
B.A., Radford University
M.S., East Tennessee State University
Au.D., University of Florida

Fruechting, Sara K.
Assistant Professor of Nursing
B.A., University of Arkansas, Fayetteville
B.S., Creighton University
M.N.Sc., University of Arkansas for Medical Sciences

Fulmer, James R.
Associate Professor of Mathematics
B.S., Arkansas State Teachers College
M.A., Ed.D., University of Arkansas at Fayetteville

Funk, Mark F.
Associate Professor of Economics
B.A., Trinity University
Ph.D., University of California-Davis

Gaffney, Jeffrey S.
Professor of Chemistry
B.S., M.S., Ph.D., University of California, Riverside

Galchus, Kenneth E.
Professor of Economics
B.B.A., City College of New York
M.A., Ph.D., Washington University
Garland-Angel, Amy
Instructor in Social Work
B.A., Louisiana Technological University
M.S.W., Grambling University

Garner, William E.
Associate Professor of Rehabilitation Counseling
B.S., B.S.E., M.R.C., Arkansas State University
Ph.D., Southern Illinois University

Geissler, Gary L.
Professor of Marketing and Advertising
B.A., M.B.A., Louisiana State University
Ph.D., University of Georgia

Gentry, Betholyn F.
Professor of Audiology and Speech Pathology
B.A., University of Arkansas at Little Rock
M.S., University of Arkansas for Medical Sciences
Ph.D., Memphis State University

Ghosh, Anindya
Associate Professor of Chemistry
M.S., IIT Kanpur
Ph.D., Carnegie Mellon University

Giammo, Joseph D.
Associate Professor of Political Science
B.A., Ph.D., University of Texas at Austin

Giese, Jon Mark
Associate Professor of School of Mass Communications
B.A., M.A., University of North Texas at Denton
Ph.D., Pennsylvania State University

Golden, James W.
Professor of Criminal Justice
B.S., BA, MPA, Arkansas State University
Ph.D., Sam Houston State University

Govindan, Rathinaswamy B.
Research Assistant Professor of Applied Sciences
B.S., MS, University of Madras
Ph.D., Indian Institute of Technology

Grace, Stephen C.
Associate Professor of Biology
B.S., Louisiana State University
Ph.D., Duke University

Groesbeck, Rolf
Associate Professor of Music History / Literature
B.A., Oberlin College
M.A., Ph.D. New York University

Guyette, Thomas W.
Professor of Audiology and Speech Pathology, Chairperson, Department of Audiology and Speech Pathology
B.A., University of Missouri
M.S., University of Wisconsin
Ph.D., University of Kansas

Hakutani, Naoki
Assistant Professor of Music
B.M., Northwestern University
M.M., Indiana University in Bloomington
D.M.A., University of Texas at Austin

Hall, John R.
Associate Professor of Finance
B.S., MBA, Florida State University
Ph.D., Indiana University

Hall, Maria Petra Ingrid
Associate Professor of Art
B.A., M.F.A., San Diego State University

Hall, Tony A.
Assistant Professor of Physics and Astronomy
B.S., Arkansas State University
M.S., Ph.D., Purdue University

Hanson, Richard H.
Professor of Chemistry
B.S., Mankato State College
Ph.D., Kansas State University

Hardeman, Melissa A.
Senior Instructor of Mathematics
B.S., M.S., Nicholls State

Harris, Cheryl
Instructor in Rhetoric and Writing
B.S.E., Southwest Missouri State University
M.A., University of Arkansas, Fayetteville

Hastings, Rascheel S.
Assistant Professor, Special Education
B.S., M.A.E., M.A., M.A.E., Ed.D., Ball State University

Hayn, Judith A.
Professor of Secondary Education
B.A., Pittsburg (KS) State University
MS, Ed, Ph.D., University of Kansas

He, Qingfang
Associate Professor of Applied Science
B.A., Jiangxi Agricultural University
MA, China Agricultural University
Ph.D., Arizona State University

Hicks, Yslan
Associate Professor of Theatre and Dance
B.A., West Georgia College
MFA, Texas Tech University

Highley, Pat
Advanced Instructor
B.A., University of Arkansas at Little Rock
MS, University of Arkansas for Medical Sciences
Au.D., A.T. Still University

Hines, Robert J.
Associate Professor of Psychology
Chairperson, Department of Psychology
B.S., Union College
M.A., Saint Bonaventure University
Ph.D., Purdue University

Holland, Allison D.
Senior Instructor of Rhetoric and Writing
Director of Writing Center
B.S.E., Arkansas State University
M.Ed., M.A., Louisiana State University
Ed.D., University of Arkansas at Little Rock

Holland, Larry C.
Professor of Finance
B.S.C.E., University of Missouri at Rolla
M.B.A., University of Tulsa
Ph.D., Oklahoma State University

Hollingsworth, Jami J.
Instructor in Rehabilitation
B.A., M.A., University of Arkansas, Fayetteville

Holzer, Linda
Professor of Music
B.MUS., Northwestern University
M.M., University of North Carolina
D.MUS., Florida State University

Hood, Karen
Assistant Professor of Marketing
B.S., University of Tennessee
M.B.A., University of Tennessee
Ph.D., University of Tennessee

Huang, Guoliang
Associate Professor of Systems Engineering
B.S.,Zhongshan University
M.S.,Beiling Institute of Technology
Ph.D., University of Alberta

Hudson, Mitchell K.
Professor of Applied Science
B.S., East Texas Baptist College
MS, Sam Houston State University
Ph.D, Baylor University

Hughes, Gail H.
Professor of Educational Leadership
B.S.E, MSE Henderson State University
Ph.D., University of Memphis

Hune, Jennifer
Associate Professor of Teacher Education
B.S.E, MSE, University of Arkansas at Little Rock
Ed.D., University of Kentucky
Hunt, Andrew
Associate Professor of Secondary Education
B.S.E, M.Ed, Ph.D., University of Arkansas at Fayetteville

Hunter, Angela
Associate Professor of Philosophy and Interdisciplinary Studies
B.A., Colorado College
M.A., New York University
Ph.D., Emory University

Hupp, Clea B. Bunch
Associate Professor of History
B.A., University of Arkansas
Ph.D., University of Arkansas

Hutchinson, Lisa
Associate Professor of Criminal Justice
B.S., M.S., University of Southern Mississippi
Ph.D., University of New Orleans

Hunter, Terri J.
Assistant Professor of Audiology and Speech Pathology
B.S., Marquette University
M.F.A., Southern Methodist University

Iqbal, Kamran
Professor of Systems Engineering
B.E, N.E.D. Engineering University, Karachi
M.S., M.B.A., Ph.D., The Ohio State University

Jackson, Christy J.
Advanced Instructor of Mathematics
B.A. Hendrix College
M.S., University of Arkansas at Little Rock

Jacobsen, William
Professor of Rehabilitation Education
B.S., Ohio State University
M.Ed., Boston College
Ed.D., University of Arkansas at Fayetteville

Jauss, David
Professor of English
B.A., Southwest State University
M.A., Syracuse University
Ph.D., University of Iowa

Jennings, Steven F.
Professor of Information Science
B.S., Graceland College
M.S., Ph.D., Iowa State University
Exec. MBA, University of Colorado

Jensen, George
Chairperson, Department of Rhetoric and Writing/Professor of Rhetoric and Writing
B.A., Old Dominion University
M.A., Ph.D., University of South Carolina

Johnston, Cheryl
Senior Instructor of Speech Communication
M.A., University of Arkansas at Little Rock

Johnston, Melissa
Senior Instructor of Speech Communication
B.A., M.A., University of Arkansas at Little Rock

Jones, James V.
Assistant Professor of Earth Sciences
B.S., The University of the South
M.S., University of Wyoming
Ph.D., University of Texas

Jonea, Lakeshia Legette
Assistant Professor of Mathematics
B.S., Columbia College
M.S., University of North Carolina at Charlotte
Ph.D., Howard University

Jones, Kim A.
Assistant Professor of Social Work
B.S.W, Southern Illinois University
M.S.W, University of Illinois at Urbana-Champaign
Ph.D., Smith College

Jovanovic, Nickolas S.
Associate Professor of Construction Management/Construction Engineering Program Coordinator
B.S., Northwestern University
M.S., Rensselaer Polytechnic Institute
M.S., M.Phil., Ph.D., Yale University

Kaiser, Thomas E.
Professor of History
B.A., University of Michigan
Ph.D., Harvard University

Karabacak, Tansel
Associate Professor of Applied Science
B.S., Middle East Technical University
M.S., Ph.D. Rensselaer Polytechnic Institute

Kaufmann, Eric R.
Associate Professor of Mathematics and Statistics
B.S., Ohio State University
M.S., University of Dayton
Ph.D., Auburn University

Keating, Bevan T.
Associate Professor of Music
B.A., University of Western Ontario
M.M., D.M.A., Ph.D., The Ohio State University

Khodakovskaya, Mariya
Assistant Professor of Applied Science
B.A., M.S., Far Eastern National University
Ph.D., Russian Academy of Sciences

Kim, Jung H.
Professor of Systems Engineering
B.S., Seoul National University
M.S., Ph.D., University of Iowa

Kim, Sung-kwan
Associate Professor of Management
B.A., Kyung-Hee University
M.B.A., University of Missouri at Columbia
Ph.D., University of Nebraska at Lincoln

Kirk, John A.
Donaghey Professor of History Chair of the Department of History
B.A., University of Nottingham
Ph.D., University of Newcastle upon Tyne

Kleine, Michael
Professor of Rhetoric and Writing
B.A., University of Northern Colorado
M.A., University of Maine
Ph.D., University of Minnesota

Kleve, Maurice G.
Professor of Biology
B.S., M.A., Mankato State College
Ph.D., University of Houston

Kosmatov, Nickolai
Assistant Professor of Mathematics and Statistics
B.S., Moscow Institute for Physics and Technology
Ph.D., Auburn University

Krain, Mark
Professor of Gerontology
B.A., Brooklyn College
M.A., University of Michigan
Ph.D., University of Minnesota

Kumar, Gaurav
Associate Professor of Accounting
B.C., Panjab University
M.F.C., Kurukshetra University
Ph.D., University of Mississippi

Kuralt, Karen M.
Associate Professor of Rhetoric and Writing
B.A., M.A., University of Utah
Ph.D., Purdue University

Kushner, Jason D.
Associate Professor of Counselor Education
B.A., M.A., University of South Florida
Ph.D., University of Arkansas at Fayetteville
Kuykendall, John A.
Associate Professor of Higher Education
B.S., University of Arkansas at Pine Bluff
M.S., Christian Brothers University
Ph.D., Indiana University, Bloomington

Kyong-McClain, Jeffrey
Assistant Professor of History

Lai, Lifeng
Assistant Professor of Systems Engineering
B.E., M.E., Zhejiang University
Ph.D., Ohio State University

Landrum, Nancy E.
Associate Professor of Management
B.A., M.A., Marshall University
M.B.A., Idaho State University
Ph.D., New Mexico State University

Lanza, Janet
Professor of Biology
B.S., State University of New York at Stony Brook
M.S., University of Massachusetts
Ph.D., University of Connecticut

Layton, Kent
Associate Professor, Reading Education
B.S.E., M.Ed., Missouri State University
Ph.D., University of Georgia

Le, Dung
Assistant Professor of Economics/Finance
Ph.D., University of Oklahoma

Legrand, Denise J.
Senior Instructor of Mathematics
B.A., John Carroll University
M.S., University of Arizona

Leland, Katina M.
Assistant Professor, Early Childhood
B.Ed., Delta State University
M.Ed. & Ed.D., The University of Mississippi

Leonard, Karen Moustafa
Professor of Management
Chair, Department of Management
B.S., Arkansas State University
M.Phil., University of Auckland
Ph.D., University of Memphis

L’Eplattenier, Barbara
Professor of Rhetoric and Writing
B.A., Mankato State University
M.A., University of Nebraska
Ph.D., Purdue University

Levernier, James A.
Professor of English
B.A., Marquette University
M.A., Ph.D., University of Pennsylvania

Lewis, Johanna Miller
Professor of History
B.A., Salem College
M.A., Wake Forest University
Ph.D., College of William and Mary

Lewis, Krista
Associate Professor of Anthropology
Ph.D., University of Chicago

Lindeman, Bruce
Professor of Finance and Real Estate
B.A., Syracuse University
Ph.D., Duke University

Lindsay, Anne C.
Associate Professor of Early Childhood Education
B.A., McMaster University
M.A., Ph.D., University of Victoria

Liu, Xian,
Professor of Systems Engineering
B.A.Sc., M.A.Sc., MMath, University of Waterloo
Ph.D., University of British Columbia

Lloyd, E. Christopher
Associate Professor of Social Work
B.A., University of Arkansas at Little Rock
M.A., University of Chicago
Ph.D., University of North Carolina at Chapel Hill

López-Ramírez, Adriana
Assistant Professor of Sociology
B.A., Escuela Nacional de Antropología e Historia
M.A., El Colegio de México
M.A., Ph.D., Brown University

Lu, Lianfang
Assistant Professor of Mathematics Education
B.S., Sichuan Normal University
M.Ed., University of Oklahoma
Ph.D., Louisiana State University.

Luneau, M. David, Jr. PE
Associate Professor of Electronics and Computer Engineering Technology
B.S.E.E., Rice University
M.S.E.E., Georgia Institute of Technology

Lynch, Thomas J.
Professor of Biology
B.S., Lock Haven State College
M.S., Ph.D., University of Houston

Macheak, Carol I.
Assistant Professor of Library Science
B.A., University of Central Arkansas
M.L.S., George Peabody College at Vanderbilt University

Maguire, Moira
Associate Professor of History
B.A., George Washington University
M.A., Northeastern University
Ph.D., American University

Mann, Kristin Dutcher
Associate Professor of History
B.A., MAT Trinity University
Ph.D., Northern Arizona University

Mantle, Eric R.
Professor of Art
B.F.A., Cleveland Institute of Art
M.F.A., Ohio University

Marinova, Kristina
Instructor of Music
B.M., University of Central Arkansas
M.A., University of Michigan

Martin, Floyd W.
Professor of Art
B.A., Carleton College,
M.A., University of Iowa
Ph.D., University of Illinois

Mastin, David F.
Associate Professor of Psychology
B.S., University of Alabama
M.S., Jacksonville State University
Ph.D., University of Southern Mississippi

Matson, JoAnne Liebman
Professor of Rhetoric and Writing
B.A., Kirkland College (Hamilton College)
M.A., Ph.D., University of Minnesota
J.D., University of Arkansas at Little Rock

McAbee, Kris
Assistant Professor of English

McAdams, JoEllen
Associate Professor of Education

McGee, Newman E.
Professor of Health Education
B.A., Little Rock University
M.S.E., Henderson State College
Ed.D., University of Arkansas at Fayetteville

McIlwrayre, Kristen
Associate Professor of Speech Communication
B.A., University of North Dakota
M.A., Iowa State University
Ph.D., North Dakota State University

McMillan, Thomas C.
Chairperson, Department of Mathematics/Professor of Mathematics
B.S., University of Idaho
M.S., Virginia Polytechnic Institute and State University
M.A., Ph.D., University of Utah
Mcmillan, Margaret E.
Associate Professor of Earth Science
B.A., The Colorado College
M.S., Colorado School of Mines
Ph.D., University of Wyoming

Menhart, Steve
Professor of Electronics Engineering Technology
B.Sc., University of Warwick
M.S.E.E., Ph.D., Texas Tech University

Meyers, Ronald B.
Assistant Professor, U of A Clinton School of Public Service
B.S., M.A., Ph.D. The Ohio State University

Midturi, Swaminadham
Professor, Mechanical Engineering Technology
B.E., Government College of Engineering, India
M. Tech., Ph.D., Indian Institute of Technology, India

Milanova, Mariofanna
Professor of Computer Science
M.Sc., Ph.D., Technical University, Sofia, Bulgaria

Miller, John, Jr.
Associate Professor of Social Work
B.A., M.S.W., University of South Carolina
Ph.D., University of Tennessee

Minnick, J. Bradley
Associate Professor of English
B.A., M.Ed., Ph.D., University of Pittsburgh

Minsker, Steven
Professor of Computer Science
B.S., Brooklyn College
M.S., University of Pennsylvania
M.S., Ph.D., Massachusetts Institute of Technology

Mirivel, Julien
Associate Professor of Speech Communication
B.A., M.A., University of Northern Iowa

Mitchell, Robert B.
Professor of Management
B.S., M.B.A., D.B.A., Louisiana Tech University

Moak, Stacy C.
Associate Professor of Criminal Justice
B.S., M.S., University of Southern Mississippi
Ph.D., University of New Orleans

Mohan, Seshadri
Professor of Systems Engineering
B.E., University of Madras
M.Tech, Indian Institute of Technology Ph.D., McMaster University

Moley, Pauline
Associate Professor of Teacher Education
B.A., M.A., Ph.D., University of Missouri, Kansas City

Molsbee, Charles
Associate Professor of Nursing
B.S.N., University of Central Arkansas
M.S.N., Ed.D., Walden University

Moneyhon, Carl H.
Professor of History
B.A., M.A., University of Texas
Ph.D., University of Chicago

Montague, David R.
Associate Professor of Criminal Justice
B.A., Morehouse College
M.A., George Washington University
Ph.D., Howard University

Moore, Bruce D.
Associate Professor of Psychology
B.S., Virginia Polytechnic Institute and State University
M.A., Ph.D., University of Nebraska-Lincoln

Mullins, Heidi
Assistant Professor of Art
Ed.D., University of Houston

Nahrwold, Cynthia A.
Associate Professor of Rhetoric and Writing
B.A., Ball State University
M.A., Arizona State University
Ph.D., New Mexico State University

Nicholson, Nannette
Associate Professor of Audiology and Speech Pathology
B.S., Northwest Missouri State University
M.S., Illinois State University
Ph.D., University of Kansas Medical Center

Nickels, Jim E.
Associate Professor of Marketing
B.A., M.S., Henderson State University
JD, University of Arkansas, Fayetteville

Nisanci, Ibrahim H.
Professor of Systems Engineering
B.S., M.S., Orta Dogu Teknik University
M.S., Ph.D., Loughborough University

Nolen, Amanda L.
Associate Professor of Educational Foundations
B.S., The University of North Texas
M.S., Ph.D., Baylor University

Oliva, Robert
Professor of Accounting
JD, Whittier College School of Law
LLM, University of San Diego School of Law
Ph.D., Florida International University

Otters, Rosalie
Associate Professor of Social Work
M.S.W., Washington University
Ph.D., University of North Texas

Parker, Mary L.
Professor of Criminal Justice
B.A., M.A., Northeast Louisiana
Ph.D., Sam Houston State University

Patangia, Hirak C.
Professor of Electronics Engineering Technology
B.Tech, Indian Institute of Technology
M.S., University of New Brunswick
Ph.D., McGill University

Payne, Forrest
Senior Instructor of Biology

Pearson, Carolyn
Professor of Educational Foundations
B.A., M.S., Ph.D., University of South Florida

Peck, James H.
Professor of Biology
B.S., Iowa State University
M.S., University of Iowa
Ph.D., Iowa State University

Pellicane, Patrick J.
Professor of Construction Management
B.A., Mathematics, The City College of New York
M.A., Mathematics, St. John’s University
M.S., Ph.D., Colorado State University

Pendergraft, Stacy M.
Associate Professor of Theatre Arts and Dance
B.A., University of Tulsa
M.F.A., Arizona State University

Penn, Suzanne
Assistant Professor of Clinical Education
B.A., Hendrix College
J.D., Tulane University

Peter, Thomas F.
Associate Professor of Mathematics
B.S., M.S., Ph.D., Florida State University

Philpotts, Trey
Professor of English
B.A., M.A., University of Virginia
Ph.D., University of Delaware

Pidugu, Srikanth
Professor, Mechanical Engineering Technology
B.S., Osmania University, India
M.S., Indian Institute of Technology, India
Ph.D., Old Dominion University
Pierce, Elizabeth
Associate Professor of Information Science
B.S., The Pennsylvania State University
M.S., Iona College
Ph.D., University of Michigan

Pine, Linda R.
Assistant Professor of Library Science
B.A., Hendrix College
M.A., University of Arkansas at Little Rock

Ploeger, Nicole
Assistant Professor of Speech Communications
B.A., University of Central Oklahoma
M.A., Ph.D., University of Oklahoma

Polling, Tommy H.
Professor of Psychology
B.A., M.S., Ph.D., Oklahoma State University

Poling, Tommy H.
Professor of Psychology
B.S., M.S., Ph.D., Oklahoma State University

Porter, C. Jess
Assistant Professor of History
B.A., University of Colorado
M.S., Ph.D., Oklahoma State University

Porter, Kimberly B.
Assistant Professor of Nursing
R.N., Baptist School of Registered Nursing
B.A., University of Arkansas, Fayetteville
M.N.S., University of Arkansas for Medical Sciences

Posey, Michael C.
Assistant Professor of Management
B.B.A., Mississippi State University
M.B.A., Jackson State University
D.B.A., Louisiana Tech University

Powell, Lawrence S.
Professor of Economics and Finance
Whitbeck-Beyer Chair of Insurance and Financial Services
B.B.A., University of South Carolina, Columbia
Ph.D., University of Georgia

Prince, Bennie F.
Instructor in Health, Human Performance & Sport Management
B.S.E., MSE, Henderson State University

Premeaux, Sonya
Associate Dean for Graduate Studies, College of Business
Professor of Management
B.S., M.B.A., McNeese State University
Ph.D., Louisiana State University

Pruessner, Karin
Research Assistant Professor of Applied Science
Ph.D., Max-Planck-Institut fur Metallforschung, University of Stuttgart

Quimby, Donna G.
Associate Professor of Health, Human Performance & Sport Management
B.S., University of Arkansas at Little Rock
M.S.E., Henderson State University
Ph.D., University of Arkansas, Fayetteville

Raphael, Jay E.
Professor of Theatre Arts and Dance
B.A., Brooklyn College
M.A., Northwestern University
Ph.D., Michigan State University

Ray, Chris
Associate Professor of Construction Management
B.S., M.S., Central Missouri State University
JD, Saratoga University School of Law

Ray, Sherrie A.
Instructor of Spanish
M.A., University of Arkansas at Little Rock

Reddy, Rama N.
Professor of Systems Engineering
B.S., Bangalore University
M.S., Indian Institute of Technology
M.S., Ph.D., Mississippi State University

Rhodes, Carlton M.
Associate Professor of Journalism
B.S.E, University of Central Arkansas
M.M.A., University of Mississippi

Rice, Daryl H.
Associate Vice Chancellor of Academic Affairs/Professor of Political Science
B.A., M.A., Ph.D., Purdue University

Richard, Terry
Professor of Sociology
B.A., Southwestern University
M.A., University of Texas
Ph.D., North Texas University

Richeson, David T.
Associate Professor of Music
B.M., M.M., University of Tennessee

Roberson, Carey, W.
Associate Professor of Art
B.F.A., Henderson State University
M.F.A., Louisiana Tech University

Robertson, Roby
Professor of Public Administration
B.A., M.A., Lamar University
Ph.D., University of Oklahoma

Robertson, Sherry
Assistant Professor of Rhetoric and Writing/Director of First-Year Composition
B.A., M.A., University of Arkansas at Little Rock
Ph.D., Arizona State University

Robinson, Ann E.
Professor of Educational Services/Leadership
B.A., M.A., University of Wyoming
Ph.D., Purdue University

Robinson, Greg
Assistant Professor of Audiology and Speech Pathology
B.S., M.S., Southwest Missouri State University
Ph.D., Michigan State University

Rodríguez, Mercedes M.
Instructor of International and Second Language Studies
M.A., West Virginia University

Rollberg, Jeanne M.
Associate Professor of Journalism
B.A., Wesleyan College
M.A., University of Missouri

Rose, Donna K.
Assistant Professor of Library Science
B.A., University of Arkansas at Little Rock
M.S.L.S., Vanderbilt University

Romney, Charles
Assistant Professor of History/Graduate Coordinator
B.A., Pomona College
M.A., Ph.D., University of California at Los Angeles

Ross, James
Associate Professor of History
B.A., University of Arkansas at Little Rock
M.A., University of Massachusetts
Ph.D., Auburn University

Rucks, Conway T., Jr.
Professor of Marketing
B.S., B.A., Louisiana Tech University
M.B.A., University of Arkansas
D.B.A., Louisiana Tech University

Sanderson, Robert E.
Professor of Sociology
B.A., M.A., Memphis State University
Ph.D., Louisiana State University

Sandgren, Eric
Dean, Donaghey College of Engineering and Information Technology
Ph.D., Purdue University
Saunders, Joy
Assistant Professor of Spanish
B.A., M.A. University of Oklahoma-Norman
M.A., Ph.D., University of Texas at Austin

Schafer, Patricia E.
Associate Professor of Nursing
A.D.N., University of Arkansas at Fayetteville
B.S.N, Missouri Southern State College
M.S., University of Oklahoma Health Science Center
Ph.D., Kennedy-Western University

Scott, Joyce
Associate Professor of Nursing
A.S.N., Arkansas State University
B.S.N, University of Arkansas at Little Rock
M.S.N., University of Central Arkansas

Scranton, Margaret
Professor of Political Science
B.A., Randolph-Macon
M.A., Ph.D., University of Pittsburgh

Sedivy, Amy
Assistant Professor of Secondary Education
B.A., Millikin University
M.S., E.D., Southern Illinois University
Ph.D., Loyola University

Seig, Marcus
Assistant Professor of Physics
B.Sc., Imperial College
M.Sc., University of Manchester
Ph.D., Liverpool John Moores University

Sellars, Sharon E.
Instructor of French
Director of Language Resource Center
B.A., University of Arkansas at Little Rock
M.A., University of Arkansas, Fayetteville

Seo, Hye-Won
Associate Professor of Physics and Astronomy
B.S., Ewha Womans University
M.S., Ph.D., University of Houston

Shaikh, Ali Uddin
Professor of Chemistry
B.S.c, M.Sc., Calcutta University
M.S., Ph.D., Howard University

Shapley, Kathy
Assistant Professor of Audiology and Speech Pathology
B.S., Stephen F. Austin State University
M.A., University of Houston
M.A., Ph.D., University of Nebraska-Lincoln

Sherwin, Elizabeth
Professor of Psychology
B.A., Bar Ilan University
M.S., Ph.D., Virginia Commonwealth University

Sikes, Robert S.
Associate Professor of Biology
B.S., University of Arkansas at Little Rock
M.S., Memphis State University
Ph.D., University of Minnesota

Sims, William Jay
Senior Instructor of Earth Science
B.S., University of Arkansas at Little Rock
M.S., University of Kentucky

Smith, Aj
Professor of Art
B.F.A., Kansas City Art Institute
M.F.A., Queens College, City University of New York

Smith, Bruce D.
Professor of Special Education/Associate Dean, College of Education
B.S., UCLA
M.Ed., Loyola Marymount University
Ph.D., UCLA

Smoller, Laura Ackerman
Professor of History
A.B., Dartmouth College
A.M., Ph.D., Harvard University

Snyder, Janea
Senior Instructor of Health, Human Performance, and Sport Management
B.S., University of Arkansas at Little Rock
M.Ed., University of Arkansas at Little Rock
Ph.D., Texas Woman’s University

Song, Yong-Jin
Assistant Professor of Speech Communication
B.A., Hannam University
M.A., Syracuse University
Ph.D., University of Kansas

Squires, Mark
Advanced Instructor of Construction Management
B.S., M.B.A., University of Arkansas at Little Rock

Stauffer, Linda K.
Associate Professor of Rehabilitation
B.S., Trenton State College
M.Ed., University of Arkansas, Fayetteville
Ph.D., University of Arkansas, Fayetteville

Steinmeier, Robert C.
Associate Professor of Chemistry
B.S., Ph.D., University of Nebraska

Stevenson, Jerry G.
Interim Associate Dean, College of Professional Studies
Professor of Public Administration
A.A., South Georgia College
A.B., M.S.W., Ph.D., University of Georgia

Stone, Warren S.
Assistant Professor of Management
B.S., M.B.A., Ph.D., Virginia Commonwealth University

Streett, Rebecca A.
Instructor of Mathematics
B.S., Sweet Briar College
M.S., University of Arkansas at Little Rock

Suter, W. Newton
Professor of Educational Leadership
B.A., University of California at Riverside
M.A., San Francisco State University
Ph.D., Stanford University

Talburt, John
Professor of Information Science
B.S., Arkansas State University
M.S., Ph.D., University of Arkansas, Fayetteville

Tang, Fusheng
Assistant Professor of Biology
B.S., Central China Normal University
M.S., Chinese Academy of Sciences
Ph.D., University of Iowa

Tang, Peiyi
Professor of Computer Science
M.Eng., East China Normal University
Ph.D., University of Illinois at Urbana-Champaign

Tapp, Marvelyn
Instructor of Mathematics
B.S., University of California Riverside
M.S., Northern Arizona University

Tarasenko, Olga
Assistant Professor of Biology
M.D., Ph.D., Kyrgyz State Medical Academy

Taylor, Cynthia
Associate Professor of Accounting
B.S., M.A., University of Arkansas at Little Rock
Ph.D., Oklahoma State University

Tebbetts, George P.
Associate Professor of Mechanical Engineering Technology
Chair, Engineering Technology
B.S., Texas A and M University
M.S., University of New Haven

Terry, H. Andrew
Professor of Finance
B.A., Hendrix College
MA, Ph.D., University of Michigan
Thomas, Jan  
Associate Dean, College of Arts, Humanities, and Social Sciences/  Professor of Philosophy  
B.A., University of Colorado, Boulder  
M.A., Ph.D., University of Arizona, Tucson

Thomas, Shaun  
Assistant Professor of Criminal Justice  
B.A., University of Akron  
M.A., Ph.D., Louisiana State University

Thombre, Avinash  
Associate Professor of Speech Communication  
B.A., Indira Gandhi National Open University  
M.S., Bangalore University  
Ph.D., University of New Mexico

Thompson, Carol L.  
Professor of Speech Communication  
B.A., M.A., Ph.D., Southern Illinois University

Trevino-Richard, Terry L.  
Professor of Sociology  
B.A., Southwestern University  
M.A., University of Texas  
Ph.D., North Texas University

Tucker, Sheri, J.  
Assistant Professor, Reading Education  
B.A., Cameron University  
M.S., East Central University  
M.A., Ed.D., Boise State University  
J.D., University of Arkansas

Tudor, Thomas R.  
Professor of Management  
B.S., Virginia Polytechnic Institute and State University  
M.B.A., Ph.D., Virginia Commonwealth University

Tudoreanu, Mihail E.  
Associate Professor of Information Science and Systems Engineering  
B.S., University “Al.I.Cuza” Iasi  
M.S., Ph.D., Washington University

Turney, Howard, M.  
Chair, School of Social Work/Professor of Social Work  
B.B.A., University of Central Arkansas  
M.S.W., University of Arkansas at Little Rock  
Ph.D., Florida State University

Turturro, Carolyn Lazaro  
Assistant Professor in Social Work  
B.A., Herbert H. Lehman College  
M.A., Ph.D., New York University

Ulmer, Robert R.  
Chairperson, Department of Speech Communication/Associate Professor of Speech  
B.A., University of Saskatchewan  
A.M., North Dakota State University  
Ph.D., Wayne State University

Umphers, Ida S.  
Senior Instructor of Mathematics  
B.S., M.S. University of Arkansas at Little Rock

Vander Putten, James J.  
Associate Professor of Educational Leadership  
B.S.E, University of Wisconsin-Stout  
MSE, Indiana University-Bloomington  
Ph.D., University of Michigan

Vannatta, Dennis  
Professor of English  
B.S.E, Central Missouri State University  
MA, Ph.D., University of Missouri

Vaughn-Neely, Elizabeth  
Associate Professor of Educational Leadership  
BA, Syracuse University  
MED, University of Oregon  
Ph.D., Oregon State University

Vinikas, Vincent A.  
Professor of History  
B.A., Pennsylvania State University  
Ph.D., Columbia University

Viswanathan, Tito  
Professor of Chemistry  
B.S., University of Delhi  
M.S., University of Houston  
Ph.D., Tulane University

Wagner, Gary  
Associate Professor of Economics  
B.A., Youngstown State University  
M.A., Ph.D., West Virginia University

Walker, Jeffrey T.  
Professor of Criminal Justice  
B.A., University of Arkansas at Fayetteville  
M.A., University of Arkansas at Little Rock  
Ph.D., Sam Houston State University

Wallace, Thomas S.  
Advanced Instructor of Information Technology  
B.A., University of Arkansas, Little Rock  
M.A., University of Arkansas, Little Rock

Wang, Hong Li  
Associate Professor of Biology  
B.A., Zhejiang University  
Ph.D., University of Newcastle

Wang, Xiaoshen  
Professor of Mathematics  
B.S., M.S., Jilin University  
Ph.D., Michigan State University

Warrick, Michael  
Professor of Art  
B.S., Illinois State University  
M.F.A., Southern Illinois University

Watts, Michael  
Associate Professor of Accounting  
B.B.A., M.B.A., University of Michigan  
J.D., University of Arkansas at Little Rock

Watson, Theresa A.  
Senior Instructor of Mathematics  
B.S., Millersville University  
M.S., Ohio University

Wayland, Jane P.  
Dean, College of Business/Professor of Marketing  
B.S., M.B.A., University of Southern Mississippi  
Ph.D., University of North Texas

Wichinsky, Lillian  
Assistant Professor of Social Work  
B.A., University of Florida  
M.S.W., California State University  
Ph.D., Florida International University

Wigand, Dianne  
Associate Professor of Public Administration  
B.A., M.A. Texas Tech University  
Ph.D., Arizona State University

Wigand, Rolf T.  
Professor of Information Science  
B.B.A., M.A., Texas Tech University  
Ph.D., Michigan State University

Wilkerson, Patricia  
Assistant Professor of Social Work  
B.A., University of Arkansas at Little Rock  
M.S.W., University of Arkansas at Little Rock  
Ph.D., Jackson State University

Williams, Joe  
Associate Professor of Rhetoric and Writing  
B.A., Lehigh University  
M.A., West Chester University  
Ph.D., Syracuse University

Williams-Smith, Marjorie  
Professor of Art  
B.F.A., Howard University  
M.F.A., Pratt Institute
Wood, Betty K.
Associate Professor of Teacher Education
B.S.E., University of Central Arkansas
M.S.E., University of Arkansas at Little Rock
Ph.D., Purdue University

Wright, Andrew B.
Associate Professor of Systems Engineering
B.S., University of South Carolina
M.S., Massachusetts Institute of Technology
Ph.D., Rensselaer Polytechnic Institute

Wrobel, Sharon Leigh
Assistant Professor of Public Administration
B.A., M.P.A., Arizona State University
Ph.D., University of Texas at Dallas

Wu, Ningning
Professor of Information Science
B.S., M.S., University of Science & Technology of China
Ph.D., George Mason University

Xie, Mengjun
Assistant Professor of Computer Science
B.S., M.E., East China Normal University, China
Ph.D., College of William and Mary

Xu, Xiaowei
Professor of Information Science
B.Sc., Nankai University
M.Sc., Chinese Academy of Sciences
Ph.D., University of Munich

Xie, Haiyan
Professor of Construction Management
B.S., M.S., Xi’an University of Architecture and Technology
M.S., Ph.D. University of Florida

Yanoviak, Stephen
Assistant Professor of Biology
B.S., Auburn University
M.S., Purdue University
Ph.D., University of Oklahoma

Ye, Cang
Associate Professor of Systems Engineering
B.S., M.S. The University of Science and Technology of China
Ph.D., The University of Hong Kong

Ye, Xiaowei
Professor of Mathematics
B.S., Wuhan University
M.S., Ph.D., University of Pittsburgh

Yoder, R. Paul
Professor of English
B.A., Louisiana State University
M.A., Ohio State University
Ph.D., Duke University

Yoshigoe, Kenji
Associate Professor of Computer Science
B.S., Ph.D., University of South Florida

Yu, Shucheng
Assistant Professor of Computer Science
B.S., M.S. The University of Science and Technology of China
Ph.D., The University of Hong Kong

Yu, Xian
Assistant Professor of Statistics
B.Eng., Beijing University of Technology
M.S., Texas A&M University
M.S., University of Alaska Fairbanks
Ph.D., University of Texas at Dallas.

Zacher, Dale E.
Associate Professor of Mass Communication
B.A., University of North Dakota
M.S., Ph.D., Ohio University

Zeng, Lirong
Assistant Professor of Biology
B.S., Hunan Agricultural University
M.S., Zhongshan University
Ph.D., Ohio State University

Zhang, Jing
Associate Professor of Systems Engineering
B.S., M.S.E.E., Southeast University
Ph.D., Swiss Federal Institute of Technology

Zhang, Wenle
Associate Professor, Electronics and Computer Engineering Technology

Zhao, Wei
Professor of Chemistry
B.S., M.S., Ph.D., Peking University
Faculty Emeritus

Luana S. Adams, B.S.N., M.S.N.
Associate Professor of Nursing, (1987-2006)

James A. Allen, M.S.
Associate Professor of Library Science, (1965-1992)

W. Steve Anderson, B.A., MA, PhD
Professor of English, (-2010)

Marc Arnold, PhD
Associate Professor of Rhetoric and Writing, (1976-2002)

Lawrence H. Averill Jr., B.A., JD, LLM
Charles C. Baum Distinguished Professor of Law, (1982-2001)

Dennis A. Baeyens, B.S., MS, PhD
Professor of Biology, (2007)

George S. Ballard, B.S., B.S.EE, MS
Assistant Professor of Computer Science, (1974-2001)

Suzann W. Barr, B.A., MA
Instructor in Rhetoric and Writing, (-2012)

Patricia Bauknight, B.A., MSW, PhD
Assistant Professor of Social Work, (1976-2003)

Michael A. Beaird, B.A., JD, MLL
Associate Professor of Law, (1998 – 2006)

Lester Bilsky, B.A., PhD
Professor of History, (1972-2001)

David E. Blevins, B.S.IE, MB.A., PhD
Professor of Management, (1990-2005)

S. Charles Bolton, B.A., MA, PhD
Professor of History, (1973-2009)

Ronald L. Boswell, B.A., MA
Assistant Professor of Music, (1967-2006)

Barbara M. Bowlus, B.A., lic.phil.
Instructor of German, (1975-2004)

Charles R. Bowlus, B.A., MA, PhD
Professor of History, (1973-2000)

Charlene Bradham, B.S.N, MNSc
Professor of Nursing, (1976-1997)

Wilfred J. Braithwaite, B.S., MS, PhD
Professor of Physics, (2007)

Barbara Jo Bray, B.A., MA, MEd
Professor of Theatre Arts and Dance, (-2010)

Joy A. Breckenridge, B.S., MFA
Assistant Professor of Theatre Arts and Dance, (2007)

Diane Brock, A.A., B.A., M.S.E.
Instructor Emeritus of Management, (1995-2013)

Winferd G. Bruhl, B.A., B.S., M.A.T., M.F.A.
Chair of the Department of Art and Professor of Art, (1998-2013)

Marion Douglas Buffalo, B.A., MA, PhD
Professor of Sociology, (1973-2004)

Ralph M. Burns, B.A., MFA, Ph.D.,
Professor of English, (1985-2012)

James F. Butler, B.A., MB.A., PhD
Professor of Economics, (1963-1996)

Jerry P. Butler, B.A., MS, PhD
Professor of Speech Communication, (1970-1997)

Sharon A. Byrd Collins, B.S., M.A., Ed.D.
Associate Professor of Educational Leadership, (2003-2013)

Frances Cantwell, B.A., B.S.
Assistant Professor of Library Science and Assistant Librarian, (1958-1981)

Richard P. Carr, Jr., BB.A., M.B.A., M.S., Ph.D.
Associate Professor of Marketing, (1980-1997)

Gary Cawood, B.A., M.F.A.
Professor of Art (1985-2013)

Frankie G. Chadwick, B.S.E., M.Ed.
Instructor of Rhetoric and Writing, (1982-2013)

Wayne Chapman, B.A., M.A., Ph.D.
Associate Professor of Theatre Arts, (1975-2013)

Charles D. Chastain, B.A., MA, PhD
Professor of Criminal Justice, (1972-2011)

Roger Chisholm, B.A., BS, MS, PhD
Professor of Economics and Finance, (1985-2001)

Lawrence A. Coleman, B.S., MS, PhD
Professor of Physics, (1969-2004)

Nanjo Dubé Coleman, B.S., MEd, PhD
Professor of Secondary Education, (1975-1995)

Marian C. Crawford, B.S., MBE, PhD
Professor of Management, (1974-2010)

Steven A. Crawshaw, B.A., M.S.
Advanced Instructor of Physics and Astronomy, (1977-2013)

Huey D. Crisp, B.S., MA, EdD
Instructor in Rhetoric and Writing, (1980-2011)

Robert C. Culpepper, B.S., MB.A., PhD
Professor of Accounting, (1975-1997)

Carolyn Curry, B.A., MA
Assistant Professor of Theatre Arts, (1976-1995)

Jesse E. Dancer, B.S., MS, PhD
Professor of Audiology and Speech Pathology, (1978-2002)

Marshel D. Davis, B.A., M.A., M.S.E.
Assistant Professor of Health, Human Performance & Sport Management, (1969-2013)

Priscilla N. Davis, B.S.E, MA, PhD
Professor of Audiology and Speech Pathology, (1972-2003)

Larry R. Dickerson, B.A., MA, Ph.D.,
Professor of Rehabilitation Counseling, (1978-2012)

Emily S. Dickinson, B.A., MS
Assistant Professor of Mathematics, (1963-1993)

E. Faye DiMassimo, B.S.E, MA
Assistant Professor of Speech Communication, (1968-1982)

Wanda Dole, B.A., M.A., M.S.
Library Professor/Dean of Ottenheimer Library, (2006-2013)

Charles W. Donaldson, B.S., MS, Ed.D.
Vice Chancellor of Education and Student Services/Associate Professor of Education, (1992-2013)

Ralph D. Eberly, B.A., PhD
Cooper Distinguished Professor of English, (1967-1985)

Victor E. Ellsworth, BME, MM, PhD
Associate Professor of Music and Chairperson, Department of Music, (1997-2009)

Arthur "Art" English, B.S., MA, Ph.D.
Professor of Political Science, (1976-2012)

Dale V. Ferguson, B.S., MS, PhD
Professor of Biology, (1970-2004)

Jamie A. Foster, B.S.HE, MSHE, EdD
Assistant Professor of Elementary Education, (1985-2001)

Shirley M. Freeman-Turner, B.S.E, MSE, EdD
Associate Professor of Elementary and Early Childhood Education, (1975-2006)

James H. Fribourgh, B.A., M.S., Ph.D.,
L.H.D.
Distinguished Professor of Biology, (1949-1994)

Edward Jay Friedlander, B.S., MA, EdD
Professor of Journalism, (1975-1996)
James C. Montague, B.S., M.A., Ph.D.
Professor of Audiology and Speech Pathology, (1971-2000)

Erle Patrick Moore, B.A., M.A., Ph.D.
Associate Professor of English, (1989-2012)

Phyllis J. Moore, B.A., MSE, PhD
Professor of Biology, (1972-2003)

Ray Moore, B.M., M.A., Ed.D.

Lee Morgans, B.S., M.S., Ph.D.
Professor of Biology, (1969-2001)

Morell E. Mullins, JD
Professor of Law, (1979-2004)

Emil C. Muly, B.E.S., M.S., Ph.D.

Alice Ann Munson, B.A., MA
Instructor in English, (1969-2011)

Arthur G. Murphey, Jr., B.A., JD, LLM
Professor of Law, (1975-1997)

Russell E. Murphy
Professor of English, (1972-2008)

Linda Musun, B.A., MA, PhD
Professor of Psychology / Dean, Extended Programs, (1978-2011)

Rodney D. Neal, B.S.ME, MSMS, PhD

John R. Pagan, AB, MLitt, JD
Professor of Law, (1975-1996)

Agaton P. Pal, B.S.E, MA, PhD
Professor of Sociology, (1970-1987)

James W. Parins, B.S., M.A., Ph.D.
Professor of English, ( -2012)

Maryln J. Parins, B.A., MA, PhD
Professor of English, (1965-1999)

Glenn Pasvogel, B.A., JD
Professor of Law, (1971-2003)

James H. Peck, B.S., MS, PhD
Professor of Biology, (1981-2011)

Joe Phillips, B.A., MA, MFA
Associate Professor of Art, (1980-2000)

John C. Pickett
Professor of Economics and Finance, (1986-2008)

Shirley J. Pine, B.A., MA, PhD
Professor of Audiology and Speech Pathology, (1974-1997)

John B. Pittenger, B.A., MA, PhD
Professor of Psychology, ( -2010)

Linda M. Pledger, B.A., M.A., Ph.D.
Professor of Speech Communication, (1988-2005)

Bruce Plopper, B.S., M.A., Ph.D.
Professor of Journalism, (1990-2012)

Clifford “Earl” Ramsey,
Professor of English,

Linda J. Rimer
Professor of Nursing, (1974-2008)

John D. Robson, B.S., MS, PhD
Professor of Sociology, (1975-1999)

Aimar Andre Rollefson, B.A., MA, PhD
Professor of Physics, (1974-2005)

Frances M. Ross, B.A., M.A.
Assistant Professor of History, (1963-2013)

Julian (Judy), Rouch, RLS, B.A., MS, EdS
Professor of Surveying and Land Information, (1985-2001)

Keith B. Runion, B.A., MEd, EdD
Associate Professor of Counselor Education, (1986-2006)

Kathy Sanders, B.S., MALS, MA
Associate Professor of Library Science, (1969-2004)

Luther Sanders, B.S., MA, EdD
Professor of Journalism, (1974-2000)

Luciano A. Santa Cruz, B.A., MSW, DSW
Associate Professor of Social Work, (1978-2005)

Dorothy E. Sawatski, B.S.,
Associate Professor of Music (1961-1991)

David A. Schonert, B.A., M.S.
Instructor of Mathematics, (1993-2013)

Sally Y. Sedelow, B.A., MA, PhD
Professor of Computer and Information Science, (1985-1995)

Walter A. Sedelow, B.A., MA, PhD
Professor of Computer and Information Science, (1985-1995)

Angela Sewall, A.B., M.A.,Ed.S., Ed.D.
Dean, College of Education / Professor of Educational Leadership, (1992-2013)

Peter Thomas Sherrill, B.A., MA, PhD

Ralph Shull, B.S., MA, PhD

David W. Sink, A.B., M.A., D.P.A.
Professor of Public Administration, (1991-2013)

Jean Sizemore, B.A., MA, PhD
Associate Professor of Art, (1986-2000)

Harold T. Smith, B.A., M.A., Ph.D.
Professor of History, (1969-1996)

Marcia M. Smith, B.A., M.A., Ph.D.
Senior Instructor in Rhetoric and Writing, (1992-2013)

Patricia B. Smith, B.S., M.A., Ed.D.
Professor of Rehabilitation Education, (1984-2012)

Carol D. Snelson
Associate Professor of Elementary Education, (1971-2007)

Neil E. Snortland, B.A., M.A., Ph.D.
Professor of Political Science and Chairperson, Department of Political Science, ( -2010)

Nicholas J. Sobin, B.A., MA, PhD,
(1980-2000)

Professor of English

Thea S. Spatz, B.A., M.A., Ed.D.
Professor of Health Science, (1987-2005)

Gisela Spieker, B.A., MSW, PhD
Professor of Social Work, (1971-1990)

David S. Spillers, B.S.E, MEd, EdD
Professor of Educational Media, ( -2010)

Logan Scott Stafford, B.S., JD
Professor of Law, (1981-2004)

Betty Stephens, NDR, M.S.
Assistant Professor in Health, Physical Education, (1967-1988)

Howard Stephens, B.S., M.A., Ed.D.
Associate Professor of Teacher Education, (1969-1995)

Kathryn Zabelle Stodola, B.A., M.A., Ph.D.
Professor of English, (1980-2012)

A. Ann Straughn, B.S.N, MSN
Associate Professor of Nursing, ( -2010)

Johnye E. Strickland, B.A., M.A., Ph.D.
Professor of English, (1991-2001)

Joyce M. Stroud, B.S.E, M.Ed.
Instructor of Management, (1998-2013)

Mary C. Sturgeon, B.S.E, MA
Associate Professor of Library and Information Science, (1963-2013)

Merritt N. Sugg, B.S., Ph.D.
Associate Professor of Mathematics and Statistics, (1975-1999)

Bruce Swinburne, B.A., M.A., Ed.D.

Robert T. Swindell, B.S., PhD
Professor of Chemistry, ( -2009)

Judyth A. Swingen, B.S., MS, PhD
Senior Instructor of Spanish, (1980-2013)

C. Fred Williams, B.A.E, M.A., Ph.D.
Professor of History, (1969-2011)

Leroy T. Williams, AA, B.S., MA, Ph.D.
Associate Professor of History, (1977-2011)

Lynda E. Wilson, B.A., M.A., Ph.D.
Professor of Radio, Television, and Film, (1980-2000)

Donald C. Wold, B.A., MA, PhD
Professor of Physics, (1969-2000)

Shelley Wold, B.A., MALS
Assistant Professor of Library Science, (1996)

Barbara B. Taegel, B.S.E, M.A.
Dean of Students / Assistant Professor of Leisure Science, (1960-1996)

Myra G. Taff-Watson, B.A., M.A.
Assistant Professor of Counseling, Adult, & Rehabilitation Education, (1982-2006)

John R. Talburt, B.S., M.S., Ph.D.
Professor of Computer and Information Science, (1984-1995)

Tom Teeter, B.S.E, M.I.S., Ed.D.
Professor of Information Technology, (1972-2002)

Mary Jean Thomas, B.S., M.S., Ph.D.
Professor of Radio, Television, and Film, (1977-1992)

Patricia P. Thompson, B.S., M.Ed., B.S.N, M.S.N.
Associate Professor of Nursing, (1974-2000)

Perry G. Thompson, B.A., M.A., Ph.D.
Professor of Gerontology, (1977-2000)

William H. Traylor, B.S., B.A., MLIS
Associate Professor of Library Science, (1975 – 2006)

Ethel P. Trice, B.S., M.S., Ed.D.
Professor of Health Education, (1974-1987)

Gwendolyn Brown Twillie, B.A., M.S., Ph.D.
Associate Professor of Theatre and Dance, (1972-1998)

Dennis P. Vannatta, B.S.E., M.A., Ph.D.
Professor of English, (1986-2012)

Martha Vroeman, B.S., M.S.
Assistant Professor of Nursing, (1974-1977)

Allan Ward, B.A., M.A., Ph.D.
Professor of Speech Communication, (1973-2000)

Maxine A. Warren, B.S., M.Ed., Ed.D.
Associate Professor of Educational Foundations, (1970-1982)

Kenneth Warrick, Master Sergeant,
(1983-1987)
Instructor of Military Science

Maurice Weatherton, B.A., M.A., Ph.D.
Professor of Audiology and Speech Pathology, (1974-2000)

Roger Webb, B.A., Ph.D.
Professor of Psychology, (1974-2013)

Ann West, B.S., MSW

James W. Wiggins, B.S., Ph.D.
Associate Professor of Chemistry / Dean, College of Science and Mathematics, (1969-2002)
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