Student Responsibility
Each student should study this Undergraduate Bulletin and become completely familiar with the organization and the regulations of the university. Failure to do this may result in serious mistakes for which the student shall be held fully responsible.

Policy Statement
Policies and procedures stated in this bulletin—from admission through graduation—require continuing evaluation, review, and approval by appropriate university officials. All statements reflect policies in existence at the time this bulletin went to press, and the university reserves the right to change policies at any time and without prior notice.

University officials determine whether students have satisfactorily met admission, retention, or graduation requirements. Arkansas State University reserves the right to require a student to withdraw from the university for cause at any time.

Equal Opportunity/Affirmative Action
Arkansas State University is an equal opportunity institution and will not discriminate on the basis of race, color, religion, sex, national origin, age, handicap/disability, or other unlawful factors in employment practices or admission and treatment of students. Any questions regarding this policy should be addressed to the Coordinator of Equal Opportunity and Affirmative Action, Arkansas State University, P.O. Box 1500, State University, Arkansas 72467, Telephone (870) 972-3454.

Services for the Disabled
Arkansas State University’s Coordinator of Services to students, faculty and staff with disabilities is also the university’s compliance coordinator for Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) and the ADA Accessibility Guidelines (ADAAG). In this capacity, the coordinator arranges for academic adjustments and auxiliary aids to be provided to qualified students and coordinates workplace accommodations. The coordinator also is the individual to whom concerns about physical access to facilities, buildings and grounds should be addressed. The coordinator’s office is located on the fourth floor of the Chickasaw Building. The telephone number is (870) 972-3964. The number for the Telecommunications Device for the Deaf (TDD) is (870) 972-3965.

Arkansas State University will provide auxiliary aids, without cost, to those students with verified disabilities who require such services. If service providers are necessary, Arkansas State University will provide appropriately trained providers (other than paid tutors).
INSTITUTIONAL MEMBERSHIPS
Arkansas State University holds institutional membership in agencies, councils, and organizations important to the quality of its academic programs. Major memberships are shown below.

American Assembly of Collegiate Schools of Business
American Association of Colleges for Teacher Education
American Association of Colleges of Nursing
American Association of State Colleges and Universities
American Association of State Colleges of Agriculture and Renewable Resources
American Mathematical Society
Association for University Business and Economic Research
Association of Schools of Allied Health Professions
Association of Schools of Journalism and Mass Communications
Broadcast Education Association
Council for Advancement and Support of Education
Council of Graduate Schools in the United States
Council of Social Work Education
International Student Exchange
National Association of Schools of Art and Design
National Association of Schools of Music
National Association of Schools of Public Affairs and Administration
National Collegiate Honors Council
National Council for Accreditation of Teacher Education
National League for Nursing Accrediting Commission
61 Broadway
New York, NY 10006
Telephone: (212) 363-5555, X153

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### Fall Semester 2005

- **Orientation for New Faculty** .................................................. August 15-16 (M-T)
- **Faculty Conference** ................................................................. August 17 (W)
- **College and Department Faculty Meetings** .......................... August 18 (R)
- **Residence Halls Open** ............................................................... 9:00 a.m. August 20 (Sa)
- **Open Registration** ................................................................. through August 19 (F)
- **Regular Classes Begin** ............................................................ August 22 (M)
- **Extended Registration** ............................................................ August 22-28 (M-Sa)
- **Saturday Classes Begin** ......................................................... August 27 (Sa)
- **Labor Day Holiday** ............................................................... September 5 (M)
- **Midsemester Exams** ............................................................... October 4-10 (T-M)
- **Session II Classes Begin** ....................................................... October 11 (T)
- **Midsemester Grades Due** ..................................................... 12:00 noon October 11 (T)
- **Comprehensive Exam Results Reported to Graduate School** ... November 11 (F)
- **Fall Break and Thanksgiving Holiday** ................................. November 21-26 (M-Sa)
- **Last Day of Class** ................................................................. December 6 (T)
- **Study Day** ............................................................................. December 7 (W)
- **Final Examinations** ............................................................... December 8-14 (R-W)
- **Inclement Weather Final Exam Make-Up Day (if necessary)** ... December 15 (R)
- **Graduating Senior Grades Due** ........................................... 10:00 a.m. December 15 (R)
- **Residence Halls Close (for all students not graduating)** ......... 12:00 noon December 15 (R)
- **All Grades Due** ................................................................. 12:00 noon December 15 (R)
- **Commencement** ................................................................ 7:00 p.m. December 16 (F)

### Spring Semester 2006

- **Residence Halls Open** ............................................................. 9:00 a.m. January 6 (F)
- **Open Registration** ................................................................. through January 6 (F)
- **Regular Classes Begin** .......................................................... January 9 (M)
- **Extended Registration** ......................................................... January 9-15 (M-Sa)
- **Saturday Classes Begin** ......................................................... January 14 (Sa)
- **Martin Luther King, Jr's Birthday Observed (No Classes)** ...... January 16 (M)
- **Midsemester Exams** ............................................................. February 21-27 (T-M)
- **Session II Classes Begin** ....................................................... February 28 (T)
- **Midsemester Grades Due** ..................................................... 12:00 noon February 28 (T)
- **Spring Break** ....................................................................... March 20-25 (M-Sa)
- **Comprehensive Exam Results Reported to Graduate School** ... March 31 (F)
- **Convocation of Scholars** ..................................................... April 10-14 (M-F)
- **Spring Faculty Association Meeting** ..................................... April 11 (T)
- **Last Day of Class** ............................................................... April 24 (M)
- **Study Day** .......................................................................... April 25 (T)
- **Final Examinations** .............................................................. April 26-May 2 (W-T)
- **Residence Halls Close (for all students not graduating)** ......... 12:00 noon May 3 (W)
- **All Grades Due (includes Graduating Seniors)** ................... 12:00 noon May 4 (R)
- **Commencement** ................................................................. May 6 (Sa)

### First Summer Term 2006

- **Registration** ........................................................................ through May 26 (F)
- **Residence Halls Open** .......................................................... 12:00 noon May 28 (Su)
- **Memorial Day Holiday Observed** ........................................ May 29 (M)
- **Classes Begin** ................................................................. July 4 (T)
- **Independence Day Holiday** .............................................. July 5 (W)
- **Last Day of Class** ............................................................. August 3 (R)
- **Final Examinations** ............................................................. 10:00 p.m. August 3 (R)
- **Residence Halls Close (for all students not graduating)** ......... 12:00 noon August 4 (F)
- **Commencement** ................................................................. 7:00 p.m. August 4 (F)

### Second Summer Term 2006

- **Registration** ........................................................................ through June 30 (F)
- **Independence Day Holiday** .............................................. July 4 (T)
- **Classes Begin** ................................................................. July 5 (W)
- **Last Day of Class** ............................................................. Aug 2 (W)
- **Final Examinations** ............................................................. Aug 3(R)
- **Graduating Senior Grades Due** .......................................... 10:00 p.m. August 3 (R)
- **Residence Halls Close (for all students not graduating)** ......... 12:00 noon August 4 (F)
- **Commencement** ................................................................. 7:00 p.m. Aug 4 (F)
- **All Grades Due** ................................................................. 12:00 noon August 7 (M)
DEADLINES 2005-2006

Fall Semester 2005
Last Day for Late Registration or for Adding Courses ............................. August 28 (Su)
Last Day to Change from Credit to Audit (including Second Session) .... August 26 (F)
Last Day to Drop or Withdraw without Financial Assessment .............. August 28 (Su)
Last Day to Drop Course or Withdraw by Web (without fees) ............... August 28 (Su)
Last Day to Drop Session 1 (first 8 weeks) Classes ............................... September 27 (T)
Last Day for Names to be Added to December Graduation List ............. September 30 (F)
Last Day to Add a 2nd Session Course ................................................ October 10 (M)
Last Day to Drop Individual Course(s) ............................................. November 18 (F)
Last Day to Withdraw from the University ........................................ November 18 (F)

Spring Semester 2006
Last Day for Late Registration or for Adding Courses ........................ January 15 (Su)
Last Day to Change from Credit to Audit (including Second Session) ... January 13 (F)
Last Day to Drop or Withdraw without Financial Assessment ............. January 15 (Su)
Last Day to Drop Session 1 (first 8 weeks) Classes ............................... February 14 (T)
Last Day for Names to be Added to May Graduation List .................... February 10 (F)
Last Day to Add a 2nd Session Course ............................................. February 27 (M)
Last Day to Drop Individual Course(s) ............................................. April 12 (W)
Last Day to Withdraw from the University ........................................ April 12 (W)

Summer Session 2006 - First Term
Last Day for Late Registration, or for Adding Courses .......................... May 31 (W)
Last Day to Change from Credit to Audit .......................................... May 31 (W)
Last Day to Drop Individual Course(s) ............................................. June 22 (R)
Last Day to Withdraw from the University ........................................ June 27 (T)

Summer Session 2006 - Second Term
Last Day for Late Registration, or for Adding Courses ........................... July 5 (W)
Last Day to Change from Credit to Audit .......................................... July 5 (W)
Last Day to Drop Individual 10-Week Course ................................... July 24 (M)
Last Day to Drop Individual Course(s) ............................................. July 27 (R)
Last Day to Withdraw from the University ........................................ July 31 (M)

Organization of the University

BOARD OF TRUSTEES—2005-2006

Term Expires
Dallas Wood, Paragould ................................................................. January 14, 2008
Mike Gibson, Osceola .................................................................. January 14, 2009
Michael Medlock, Jonesboro ...................................................... January 14, 2010
Florine Tousant Milligan, Forrest City ......................................... January 14, 2006
Richard Bell, Stuttgart ................................................................. January 14, 2007

OFFICERS OF THE BOARD—2005-2006

Michael Medlock ................................................................................. Chair
Florine Tousant Milligan ................................................................. Vice-Chair
Richard Bell .................................................................................. Secretary

PRESIDENT OF THE UNIVERSITY

### Officers of the University 2005-2006

#### Executive Officers

**J. LESLIE WYATT, 1995**  
President of the University  
B.A., Abilene Christian University  
B.B.A., University of Kentucky  
M.F.A., University of Texas—Austin  
Ph.D., University of Kentucky

**JENNUS L. BURTON, 1997**  
Vice President for Finance and Administration  
B.S., Texas A & I University  
M.S., Texas A & I University  
Ph.D., Texas Tech University

**SUSAN DAVID ALLEN, 2002 (Oct.)**  
Vice Chancellor for Research and Academic Affairs  
B.S., Colorado College  
Ph.D., University of Southern California

**STEVE OWENS, 1999**  
Vice President for University Advancement  
B.B.A., University of Mississippi  
M.Ed., University of Mississippi

**WILLIAM R. STRIPLING, 1979**  
Interim Vice Chancellor for Student Affairs  
B.A., University of Tampa  
M.R.C., Arkansas State University  
Ph.D., Southern Illinois University

**GLENDELL JONES, JR., 2002 (July)**  
Assistant to the President for Diversity Initiatives  
B.B.A., Henderson State University  
J.D., University of Arkansas - Fayetteville  
M.L., University of Florida

#### Academic Deans and Chair of Independent Department

**GREG PHILLIPS, 2003**  
Dean, College of Agriculture, College of Engineering  
B.A., University of Kentucky  
Ph.D., University of Kentucky

**KIM PITTCOCK, 1998**  
Associate Dean, College of Agriculture  
B.S., Texas Tech University  
M.S., University of Tennessee  
Ph.D., Texas Tech University

**RICKY C. CLIFFT, 1980**  
Associate Dean, College of Engineering  
B.S., University of Arkansas - Fayetteville  
M.S., University of Arkansas - Fayetteville  
Ph.D., University of Houston

**JERRY FARRIS, 1980**  
Associate Dean, College of Sciences and Mathematics  
B.S., Arkansas State University  
M.S., Arkansas State University  
Ph.D., Virginia Polytechnic Institute

**LEN FREY, 2000**  
Interim Dean, College of Business  
B.S., Arkansas State University  
M.B.A., Arkansas State University  
Ph.D., University of Memphis

**RUSSELL E. SHAIN, 1990**  
Dean, College of Communications  
B.A., University of Kentucky  
M.S., University of Illinois  
Ph.D., University of Illinois

**JOHN BENEKE, 1999**  
Dean, College of Education  
B.S., Marion College  
M.A., Ball State University  
Ed.D., Ball State University

**DON MANESS, 2001**  
Associate Dean, College of Education  
B.S., Owosso College  
M.A., Michigan State University  
Ed.D., Oklahoma State University

**DANIEL REEVES, 1999**  
Dean, College of Fine Arts  
B.A., West Liberty State College  
Ed.M., University of Pittsburgh  
Ed.D., Illinois State University

**GLORIA GIBSON, 2004**  
Dean, College of Humanities and Social Sciences  
B.A., Southern Illinois University - Edwardsville  
M.S., Southern Illinois University - Edwardsville  
Ph.D., Indiana University - Bloomington

**CAROL O’CONNOR, 2002**  
Associate Dean, College of Humanities  
M.P.H., Yale University  
Ph.D., Yale University

**GEORGE GRANT, 2003**  
Dean, Library and Information Resources  
B.S., Morehouse College  
M.S.L., Atlanta University  
Ph.D., University of Pittsburgh

**LARRY AKMAN, LTC, 2004**  
Chair, Independent Department of Military Science  
B.A., History, Henderson  
M.S., Kansas State University

**SUSAN HANRAHAN, 1995**  
Dean, College of Nursing and Health Professions  
B.S., University of Kansas  
M.P.A., University of Kansas  
Ph.D., Temple University

**HERMAN STRICKLAND, 1972**  
Dean, University College  
B.S.E., Paul Quinn College  
M.S.E., Arkansas State University  
Ph.D., Ball State University

**ANDREW SUSTICH, 1991**  
Dean of Graduate School  
B.S., University of Illinois - Urbana/Champaign  
M.S., University of Illinois - Urbana/Champaign  
Ph.D., University of Illinois - Urbana/Champaign

**ANDREW SUSTICH, 1991**  
Dean of Honors College  
B.S., University of Illinois - Urbana/Champaign  
M.S., University of Illinois - Urbana/Champaign  
Ph.D., University of Illinois - Urbana/Champaign

**GLORIA GIBSON, 2004**  
Dean, College of Humanities and Social Sciences  
B.A., Southern Illinois University - Edwardsville  
M.S., Southern Illinois University - Edwardsville  
Ph.D., Indiana University - Bloomington

**CAROL O’CONNOR, 2002**  
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M.P.H., Yale University  
Ph.D., Yale University

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M.P.A., University of Kansas  
Ph.D., Temple University

**HERMAN STRICKLAND, 1972**  
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B.S.E., Paul Quinn College  
M.S.E., Arkansas State University  
Ph.D., Ball State University

**ANDREW SUSTICH, 1991**  
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B.S., University of Illinois - Urbana/Champaign  
M.S., University of Illinois - Urbana/Champaign  
Ph.D., University of Illinois - Urbana/Champaign

**ANDREW SUSTICH, 1991**  
Dean of Honors College  
B.S., University of Illinois - Urbana/Champaign  
M.S., University of Illinois - Urbana/Champaign  
Ph.D., University of Illinois - Urbana/Champaign
The University

MISSION

We pursue and share knowledge within a caring community that prepares students in challenging and diverse ways to become more productive global citizens.

CORE VALUES

We are committed to:

• The pursuit, transmission, and use of knowledge.
• Its pursuit and use in serving the specific needs and interests of all our students.
• Its pursuit and use for the benefit of those external communities we serve, focusing first on those communities developing partnerships with us to address common concerns, but also on the role we can play in serving the national and global community.

Strategies

We will distinguish ourselves through differentiated strategies that include:

• A student-centered focus
• Globalized opportunities
• Learning together/Excellence in teaching
• Attitudes that reflect a caring community
• Enhanced accessibility

LOCATION

The university is located about halfway between the Mississippi River Valley, one of the most fertile areas in the world, and the Ozark Mountains, rich in American folklore and tradition. The university campus occupies an area of 800 acres on the gently rolling slopes of Crowley’s Ridge, in the City of Jonesboro.

HISTORY

Arkansas State University developed from one of the four state agricultural schools established in 1909 by Act 100, passed by the Arkansas General Assembly. The institution opened as a vocational high school in 1910 and was reorganized as a junior college in 1918. The name of the institution was changed to State Agricultural and Mechanical College by an act of the Arkansas State Legislature in 1925. Authority to extend the curriculum, offer senior college work, and grant degrees was given the institution by the legislature in 1925. Senior college work was initiated in 1930 and the first baccalaureate degrees were granted in 1931. In 1953 the legislature changed the name of the college to Arkansas State College. In January, 1967, the Arkansas State Legislature passed an act authorizing Arkansas State College’s change to university status. Effective July 1, 1967, the institution became Arkansas State University.

A branch campus at Beebe, Arkansas, was added to Arkansas State College by an act of the General Assembly of the State of Arkansas in 1955. The branch campus is now Arkansas State University-Beebe, offering associate degree programs at Heber Springs, Searcy and the Jacksonville Air Force Base. Additional ASU branch campuses include ASU-Mountain Home and ASU-Newport. In 2001, the ASU Technical Center at Marked Tree was added to the Arkansas State University system.

Arkansas State University offers bachelor’s degree programs at the ASU-Beebe Center; the ASU-Mountain Home Center; the ASU-EACC Center in Forest City; the ASU-MSCC Center in West Memphis; and the ANC Center in Blytheville. Additionally, the university offers a varied selection of courses in Paragould and at other locations throughout the region.

A graduate program leading to the degree of Master of Science in Education was established at Arkansas State University in the summer of 1955. Other master’s degree programs have been added. The specialist degree programs were established in 1969, and a doctoral degree program leading to the Ed.D. in educational leadership was inaugurated in 1993. The Ph.D. degree in environmental sciences began in fall 1998. A Ph.D. degree program in heritage studies was initiated in fall 2001 with additional doctoral programs to be added in the near future.

Library

The Dean B. Ellis Library, centrally located in an eight-story building, functions as an educational center for the university community. It houses an open shelf collection which includes over 586,176 books and periodical bound volumes, 573,870 federal and state documents, and 578,473 units in microform. The collection includes all the most subject fields, but emphasizes education, history, fine arts, general reference, law, and American and English literature. The Library of Congress classification system is used for the arrangement of books, and an online catalog provides access to its book collection and electronic resources. Reserve items are available at the Circulation Desk.

The library meets the informational needs of the university by offering a variety of services. A staff of 14 professional librarians and 23 support personnel acquires, organizes, and services the collection. Reference librarians assist users in locating information and in the use of the library. The reference staff also offers an active library instruction program which reaches numerous university classes. Online databases provide access to thousands of journals and books not housed within the library. Online data bases may be searched individually or through ENCompass, which allows everyone to search multiple databases simultaneously. Materials that are not contained in the library's collection are accessible by interlibrary loan through the OCLC network.

Special collections include 1) the Cass S. Hough Aeronautical Collection of 14,000 books and memorabilia which has been described as the single most valuable collection of aviation materials in private hands; 2) an outstanding collection of Lois Lenski books for children; 3) collections of notable Arkansas authors of children's books: Charlie May Simon, Lois Snelling, Faith Yingling Knoop; and 4) a collection of Arkansas writer John Gould Fletcher.

The Tom Love Collection forms the nucleus of an extensive “Arkansas Collection.” It is comprised of manuscripts, documents, and other historic materials relating to the state of Arkansas. In addition, the Arkansas Room collection contains Arkansas topographic and other maps, Arkansas State University publications, and the student newspaper, The Herald.

The Honororable E. C. Gathings Collection is comprised principally of correspondence from Arkansas' long-time congressional representative, making available primary research materials relating to the First Congressional District during Gathings' time of service in the Congress.

The Honororable Bill Alexander Collection expands and extends the research materials relating to the First Congressional District through Congressman Alexander's tenure as a member of the U.S. House of Representatives. The Alexander and Gathings collections cover 53 years, 1939 to 1992.

The collection of creation science papers, donated by former Arkansas Attorney General Steve Clark, includes the state's side of the landmark creation science case.

The Judd Hill Collection, Mabel H. Gieseck Collection, and the Ira Twist, Jr. Collection form the core of a primary research emphasis on the agricultural development and environment transformation of Eastern Arkansas.

An Oral History Program, housed in the library, has conducted and taped interviews with a number of local citizens and state leaders. The tapes are available for use by any interested patron holding an ASU library card.
Other collections include audio-visual materials and the Curriculum Materials Center which contains K-12 teacher education materials. In addition to materials directly related to classroom and research work, the library provides students with general and recreational reading materials. Exhibits and displays presenting ideas and issues are also a regular part of an ongoing service program.

Media Services offers a wide range of audio and visual services for both students and faculty engaged in university functions. The staff produces overhead transparencies, produces audio and video recordings, and provides laminating services. Additionally, Media services lends audio-visual materials and equipment for short-term use to students and faculty.

MUSEUM

Arkansas State University Museum is a general museum housed in the Museum Building connected to the west end of the Dean B. Ellis Library. Providing resource materials for teaching and research, it exhibits strong collections of Arkansas artifacts: birds, archaeological objects, minerals and fossils, mammals, Pioneer items, and military history. Arkansas Indian cultures—Quapaw, Osage, Caddo, Chickasaw, and Choctaw—as well as Southwest Indian cultures constitute multiple exhibits. The nationally known Lutterloh glass collection forms the nucleus of an extensive decorative arts collection. Dolls and toys extend the many historic collections.

The museum, accredited by the American Association of Museums, is a public as well as an institutional museum by classification. It is one of five accredited museums in the state and is open on a regular schedule Mondays through Fridays as well as Saturday and Sunday afternoons.

DELTA STUDIES CENTER

The Delta Studies Center at Arkansas State University has been established to increase understanding and address needs of the seven-state Lower Mississippi River Delta, as well as to focus national and international scholarly attention on the region.

The Delta Studies Center works with all colleges and programs across campus to focus on and seek support for interdisciplinary studies and activities directed toward the people, institutions, economy, health care issues, history, folklore, culture, arts, and biological and physical environments characteristic of the Delta. Specific activities of the center include archival development; public service; dissemination of information; support for program development, teaching and applied research; and collaboration with other agencies and institutions in the seven-state region.

Admission

GENERAL INFORMATION

Communications concerning admission to the undergraduate programs of the university should be addressed to the Admissions Office, P.O. Box 1630, State University, AR 72467.

UNRESTRICTED ADMISSION

A. Graduates of state accredited high schools may be admitted with no restrictions if they:
   1. have an ACT composite score of 19 or higher and scores of 19 or higher on the English, math and reading sections*;
   2. a. graduate with an overall GPA of 2.500 on eight semesters OR,  
      b. Earn an overall GPA of 2.75 on six or seven semesters.**
   3. have successfully completed the state-mandated core.

B. Students who are graduates of home-schools, non-state accredited high schools, or who receive the GED, may be admitted if their composite ACT scores are 19 or higher and they score 19 or higher on the English, math and reading sections.*Additionally, students who are home-schooled or who graduated from non-accredited high schools must provide transcripts which indicate the equivalent of high school graduation with an overall GPA of 2.500. The minimum GED score for unrestricted admission is 570 (for students tested after Jan. 1, 2002).

A. MUSEUM

**Students admitted on six or seven-semester transcripts must submit evidence of high school graduation by presenting a final, official transcript showing date of graduation. Students admitted on six or seven semester transcripts are eligible for early registration privileges.

CORE CURRICULUM FOR UNRESTRICTED ADMISSION

ENGLISH—4 units with emphasis on writing skills, not to include courses in Oral Communications, Journalism, Drama or Debate.

NATURAL SCIENCE—3 units with laboratories chosen from Physical Science, Biology, Chemistry, or Physics. Only one unit may come from a Life Science.

MATHEMATICS—3* units including Algebra I and II, Geometry, and an advanced math course. It is strongly recommended that students take a math course during their senior year.

SOCIAL STUDIES—3 units including one of American History (does not include Contemporary American History), one of World History (not to include World Cultures, World Geography, or Global Studies), and at least 1/2 unit of Civics or American Government (not to include courses in practical arts).

*4 units in 2004

ADMISSION WITH RESTRICTIONS

Students who do not meet the ACT, grade point average criteria and state-mandated core for unrestricted admission may seek admission with restrictions if their high school grade point averages are at least a 2.000. Students who are home-schooled or who graduate from non-accredited high schools must provide transcripts which indicate the equivalent of high school graduation with an overall GPA of 2.000. The minimum GED score for restricted admission is 500 (for students tested after Jan. 1, 2002).
Students admitted with restrictions must take the lowest level remediation required as determined by their ACT scores* and enroll in no more than 15 hours during their first semester of enrollment. Students who are missing state-mandated core will be required to enroll in deficiency areas.  
*or comparable scores on the SAT, ASSET or COMPASS

ADMISSION PROCEDURES
Applicants should submit the following credentials as early as possible. Consult the Academic Calendar within this publication for application deadlines.

1. A completed application for admission along with a $15.00 non-refundable processing fee.
2. ACT, SAT, ASSET, or COMPASS scores mailed directly to the university from the testing institution or the high school.
3. An official high school transcript, that includes date of graduation, mailed directly from the institution OR the results of the General Education Development test (GED) mailed directly from the State Department of Education.
4. Documentation (required by Arkansas statute) of two immunizations for measles—rubeola and rubella if applicant was born after January 1, 1957. The first immunization must have been administered after the applicant's first birthday and after 1/1/68. The second immunization may be administered no sooner than 28 days after the first dose.
5. Proof of registration with the Selective Service (all males 18-25).

Students enrolling in degree programs at Arkansas State University may present faxed documents (i.e., ACT scores and transcripts) in lieu of official documents for registration purposes during the first week of classes only. Official copies must follow for students to be permitted to register for subsequent semesters and to obtain official transcripts from Arkansas State University. Students who present official documents which are incongruent with faxed documents will face disciplinary action by the university.

EARLY ENTRANCE
The university accepts students who are not high school graduates if they have (1) eighteen units of high school credit including three units of English, two units of mathematics, two units of natural science, three units of social science, and not more than two units of activity credit; (2) an overall grade average of 3.25; (3) an ACT composite score of 19 or higher; and (4) a recommendation from the high school principal or superintendent. In addition, the early entrant must submit the credentials required of high school graduates except proof of graduation.

HIGH SCHOOL/UNIVERSITY PROGRAM
High school students who meet the prescribed criteria (outlined below) may enroll in university courses prior to graduation when the combined enrollments (high school and college) during any one semester do not exceed a normal academic load. To be considered for this program, a student must submit an application for admission to the university and all documents listed above under Admissions Procedures. All students must present evidence that they meet the criteria stated under either I. or II. below.

I. ACT/GPA (Please check the applicable score and GPA)

2.75 on 6 semesters
2.50 on 7 semesters
With 19 composite ACT1 score (comparable SAT scores may be used)

II. Individual Evaluation Based on Performance Criteria
Students may meet the criteria for admission through a process submitted by the high school that is based upon performance criteria which justify waiver of requirement of the standardized test score—OR—the high school grade point average. These criteria are expected to be comprehensive and demonstrate exemplary performance. Arkansas State University reserves the right to determine whether the criteria are equivalent to standardized test scores or high school GPA. (Acceptable criteria might include: scores at the 80th percentile on a recent standardized achievement test, grades in AP or Honors classes, performance in the Arts before a state or regional audience.)

In order to complete the application process, students who earned university credit while in high school must submit an up-to-date admission application and all credentials after graduation from high school.

Students earning credit through the high school/university program who wish to apply for a university funded scholarship should check with the Office of Financial Aid/Scholarships.

FRESHMAN ASSESSMENT AND PLACEMENT
The Arkansas State Board of Higher Education (SBHE) Freshman Assessment and Placement Program prescribes statewide minimum standards for determining whether entering freshmen should be placed in college level math and English courses or in developmental courses in math, English composition, and reading. At ASU, students whose scores dictate placement in developmental programs must enroll in those courses during their first academic year.

The following standards apply to all first-time-entering freshmen who are admitted to enroll in degree programs:

Mathematics
The SBHE has prescribed that, “No mathematics course less sophisticated than college algebra may be applied toward a bachelor's degree in a public university in Arkansas.” Students who score below 19 on the mathematics section of the Enhanced ACT (American College Testing Program’s ACT Assessment Test), or below 390 on the quantitative portion of the SAT (College Board’s Scholastic Aptitude Test), taken before April 1, 1995; or below 460 on the Recentered SAT I taken after April 1, 1995; or below 39 on the ASSET (American College Testing Program’s Assessment of Skills for Successful Entry and Transfer) Intermediate Algebra test or below 41 on the COMPASS test, must successfully complete the developmental (pre-college level) mathematics course or courses as stated below. Students must earn a grade of “C” or better in these courses before enrolling in college level mathematics courses. Students with:

- ACT Math scores in the 0-16 range (or ASSET/SAT/COMPASS equivalencies)
- ENROLL IN MATH 0003, DEVELOPMENTAL ALGEBRA
- ACT Math scores in the 17-18 range (or ASSET/SAT/COMPASS equivalencies)
- ENROLL IN MATH 0013, INTERMEDIATE ALGEBRA

English Composition
Students scoring below 19 on the English section of the Enhanced ACT; or below 470 on the verbal portion of the SAT; or below 400 on the SAT II Subject Test in Writing; or below 40 on the TSWE, (College Board’s Test of Standard Written English), or below 45 on the ASSET Language Usage test or below 75 on the COMPASS test, must successfully complete the developmental course or courses in English composition as stated below. Students with:

- ACT English scores in the 0-9 range (or ASSET/SAT/COMPASS equivalencies)
- ENROLL IN ENGLISH 0003, DEVELOPMENTAL COMPOSITION
- ACT English scores in the 10-15 range (or ASSET/SAT/COMPASS equivalencies)
- ENROLL IN ENGLISH 0013, INTERMEDIATE COMPOSITION

Placement programs are outlined below:

- Early Entrance students
- High School/University Program students
- Students admitted with restrictions
- Students meeting criteria stated below

Placement Program prescribes statewide minimum standards for determining whether entering freshmen should be placed in college level math and English courses or in developmental courses in math, English composition, and reading. At ASU, students whose scores dictate placement in developmental programs must enroll in those courses during their first academic year.

The following standards apply to all first-time-entering freshmen who are admitted to enroll in degree programs:

Mathematics
The SBHE has prescribed that, “No mathematics course less sophisticated than college algebra may be applied toward a bachelor's degree in a public university in Arkansas.” Students who score below 19 on the mathematics section of the Enhanced ACT (American College Testing Program’s ACT Assessment Test), or below 390 on the quantitative portion of the SAT (College Board’s Scholastic Aptitude Test), taken before April 1, 1995; or below 460 on the Recentered SAT I taken after April 1, 1995; or below 39 on the ASSET (American College Testing Program’s Assessment of Skills for Successful Entry and Transfer) Intermediate Algebra test or below 41 on the COMPASS test, must successfully complete the developmental (pre-college level) mathematics course or courses as stated below. Students must earn a grade of “C” or better in these courses before enrolling in college level mathematics courses. Students with:

- ACT Math scores in the 0-16 range (or ASSET/SAT/COMPASS equivalencies)
- ENROLL IN MATH 0003, DEVELOPMENTAL ALGEBRA
- ACT Math scores in the 17-18 range (or ASSET/SAT/COMPASS equivalencies)
- ENROLL IN MATH 0013, INTERMEDIATE ALGEBRA

Placement programs are outlined below:

- Early Entrance students
- High School/University Program students
- Students admitted with restrictions
- Students meeting criteria stated below
ACT English scores in the 0-13 range (or SAT/ASSET/COMPASS equivalencies)
ENROLL IN UC 0003, LANGUAGE DEVELOPMENT (and successfully
complete the course before advancing to the next level—concurrent enrollment
in ENG 0002 and 1003).

ACT English scores in the 14-18 range (or SAT/ASSET/COMPASS equivalencies)
ENROLL IN ENG 0002, WRITING TUTORIAL, concurrently with ENG
1003,

*NOTE: Students must earn a grade of "C" or better in Composition I before taking Composition II.

UNIVERSITY COMPETENCE AND ADMISSION

Reading
Students who score below 19 on the Reading section of the Enhanced ACT, or below
340 on the verbal section of SAT taken before April 1, 1995; or below 469 on the Recentered
SAT I taken after April 1, 1995; or below 43 on the ASSET Reading Skills test or below 82 on the
COMPASS test, must enroll in the developmental course stated below.

UC 0023, DEVELOPMENTAL READING

ENROLLMENT IN DEVELOPMENTAL COURSES
When an entering freshman student’s composite ACT score or subject ACT score,
SAT score, ASSET score, TSWE score, or COMPASS score requires the student’s
enrollment in a developmental course(s) in accord with the Arkansas State Board
of Higher Education Policy, enrollment in the lowest level developmental
course(s) shall be mandatory for the student’s first semester of enrollment
at Arkansas State University. Students not successfully completing the develop-
mental courses in their first year at Arkansas State University will not be eligible
to enroll by web. They must go to Wilson Advising Center for advisement and
permission to register. Also, they will be required to enroll in the developmental
courses that have not been successfully completed.

TRANSFER STUDENT ADMISSION

Admission Procedures:
(1) Completed application for admission along with a $15.00 non-refundable processing fee.
(2) Official transcript mailed directly to ASU from each institution previously attended.
(Refer to Transfer Credit Policy for definition of acceptable transfer credit.)
(3) A student currently enrolled and whose final transcript cannot be provided by the
institution until the semester is completed will be evaluated for admission on all work
completed to date. A final, official transcript must be received in order to continue
enrollment for subsequent terms.
(4) Documentation (required by Arkansas Statute) of two immunizations for measles—
rubella and rubeola, if applicant was born after January 1, 1967. The first
immunization must have been administered after the applicant’s first birthday and
after 1/1/68. The second immunization may be administered no sooner than 28 days
after the first dose.
(5) Proof of registration with the Selective Service (all males 18-25).

Admission/Registration Policy:
* Students with 12 or fewer acceptable semester hours and students in high
school/university programs will be evaluated for admission/registration as entering freshmen. Refer to Admission section on requirements for entering freshmen.

Students with 13 or more acceptable semester hours and earned cumulative
GPAs of 2.00 or greater will be granted registration privileges upon receipt of admission credentials.

Students with earned cumulative GPAs less than 2.00 will be granted admission
with academic warning if:
1. the GPA for the last 12 semester hours is => 2.00 or
2. there has been a separation from all academic institutions for at least one
regular semester.
3. the admission was based on an incomplete transcript and the final GPA is
below a 2.000.
4. there has been a successful appeal through the University Admissions and
Creditst Committee.

Permission to register for classes will be granted when final transcripts are received
and evaluated.

Required Assessment and Remediation for Transfer Students
Students transferring to ASU with less than 61 semester hours must meet the
requirements of the Arkansas Assessment of General Education (AAGE).

Students transferring from State of Arkansas accredited two-year institutions with an
Associate of Arts degree (or other associate degrees meeting the minimum state enhanced
general education core) will have satisfied Arkansas State University’s general education
requirements. However, specific ASU degree requirements must be met for a bachelor’s
degree, i.e., certain degrees may require a "C" or higher grade for major and/or other specific
courses. Students admitted with an associate degree will be classified as a junior for
registration purposes.

TRANSIENT STUDENTS

Transient (temporary) students are those who are actively enrolled in other institutions
of higher learning and wish to enroll for a session at Arkansas State University. Admission
as a transient student requires an application, a $15.00 nonrefundable processing fee, proof
of two immunizations against rubella and rubeola, a letter of good standing from the student’s
home institution, and proof of registration with the Selective Service (males 18-25). Transient
students wishing to continue at Arkansas State University for more than one academic
session should follow the procedures for admission of transfer students. (See Admission
Procedures for more information about immunization documentation.)

NON-DEGREE STUDENTS

Individuals who wish to pursue courses of special interest without submitting academic
credentials may register for a maximum of six hours per semester (or 3 per summer term),
accumulating up to 12 semester hours of undergraduate non-degree credit. There-
after, non-degree students must comply with university admission requirements or obtain a
written waiver from the Registrar. CAUTION: Non-degree students should not enroll in
courses that are required in the general education program. Courses taken for non-
degree credit are not applicable toward a degree unless validated later by the student’s meeting
all conditions of admission to the university, including remediation requirements.

Non-degree students are required to submit all admission credentials listed under
"Admission Procedures" except for ACT scores and high school and/or college transcripts.
Non-degree students are required to meet the same course prerequisites as are other
students. Non-degree students are generally not eligible to participate in financial aid
programs.

Due to specific enrollment limitations, non-degree students may not register through the
university’s web registration system.
ADMISSION AND ENROLLMENT OF INTERNATIONAL STUDENTS

Arkansas State University endorses the “NAFSA Principles for International Educational Exchange” developed and published in 1981 by the National Association for Foreign Student Affairs.

A citizen of a nation other than the United States of America wishing to apply for admission to Arkansas State University should write to the Admissions Office, Arkansas State University, P.O. Box 1630, State University, AR 72467 USA. Application forms and instructions will be forwarded by mail. Applicants may also visit our website at www.astate.edu.

The completed application and ALL supporting documentation must be received in the Admissions Office at least three (3) months prior to the desired enrollment date. The applicant will be informed by mail of his/her admission status.

International applicants must provide the following documents:

1. **Application and Processing Fee** — A formal application for admission, accompanied by a $25.00 (U.S. funds) nonrefundable processing fee payment. Evaluation of academic records and subsequent issuance of the I-20A will not begin before the processing fee is received.

2. **Authenticated Copies of all Academic Records** — These records should describe the courses of instruction in terms of years spent in school, types of subject matter covered, and grades earned in each subject. Evaluation of the applicant’s transcripts and records must reveal that the academic background is equivalent to high school graduation in the United States. Students seeking to transfer from another university or college must submit official transcripts from those institutions.

   Students seeking advanced standing for academic coursework completed at foreign institutions must have their transcripts evaluated by an independent agency. For more information, contact the Admissions Office, P.O. Box 1630, State University, AR 72467 USA. Student issued copies of high school/university work may not be accepted.

3. **Proof of English Proficiency** — This requirement is normally waived for citizens of the British Isles, Australia, the English-speaking portions of Canada, English speaking portions of the West Indies, and New Zealand. Minimum requirements would be one of the following:
   a. A score of 500 on the paper based TOEFL or 173 on the computer based TOEFL.
   b. A letter grade of C or better in two standard English composition courses at a United States accredited institution of higher learning.
   c. An associate degree from a regionally accredited United States institution of higher learning.
   d. A score of 5 on the International English Language Testing System (IELTS) exam.
   e. A score of “3” on the APIEL (Advanced Placement Program’s International English Language Exam)

4. **Financial Affidavit**

   A letter of certification (dated not more than six months prior to desired enrollment date) from a reputable financial institution (acceptable to the university) stating that the applicant possesses financial resources of at least $18,600 (U.S.) for each academic year of planned attendance at Arkansas State University. University funds are not available for financial aid to undergraduate students who are not citizens of the United States of America unless they have established resident alien status.

5. **ACT Student Profile Report (or SAT scores)**. This requirement is for students who have fewer than 24 (U.S.) acceptable college/university hours.

6. **Two proofs of Immunization Against Measles—Rubeola and Rubella** if applicant was born after 1/1/57. The first immunization must have been administered after the applicant’s first birthday and after 1/1/68. The second immunization may be administered no sooner than 28 days after the first dose.

   The applicant will be informed by mail of his/her admission status.

   If determined to be eligible for admission, the student must file with the Office of International Student and Scholar Services proof of adequate medical insurance that includes a repatriation provision, and a signed authorization for emergency medical treatment. At each subsequent enrollment the student must file with the Office of International Student and Scholar Services evidence that the health program is being maintained.

   International students must maintain continuous health insurance coverage, (including the summer months) while attending ASU. All international students are required to enroll in the University’s international student health insurance program. A fee equal to a six-month premium, approximately $336.00, is added to both the fall and spring tuition bills.

**READMISSION OF FORMER STUDENTS**

Re-entering students who have been in a “non-enrolled” status with Arkansas State University for more than one academic year must submit to the Registrar’s Office an application for readmission. Additionally, re-entering students must submit official transcripts for any/all college work completed at other institutions. Students born after January 1, 1957 must provide proof of immunization for measles—rubella and rubella. The immunization must be given in two stages. The first must be after the first birthday and after 1/1/68. The second vaccine must be at least 28 days after the first. Males age 18-25 must provide proof of registration with the Selective Service.

THE WILSON CENTER FOR ACADEMIC ADVISING AND LEARNING ASSISTANCE

The Wilson Advising Center is the primary home for advisement of exploratory (undecided) students at ASU. This office offers walk-in style services Monday through Friday. Students who are seeking a two-year degree at ASU can find special support services located in the center as well. The center is the first stop for students who want to change their major or wish to withdraw from ASU. The center also provides services for students who have been placed on academic suspension or who need to readmit following suspension. Any student regardless of major may contact this office with general advising or other academic questions and concerns.
Fees and Expenses

Students’ fees are payable in full at the beginning of the semester. Students unable to meet this requirement should contact the Office of Finance the first week of the term.

Students must clear tuition and fees by the 10th class day to avoid late charges.

Those students who fail to clear their accounts will not be permitted to register the following semester. A “hold” will be placed on the student’s record, and information will not be released until all accounts have been paid. (The National Student Clearinghouse will still receive student information.)

THE UNIVERSITY RESERVES THE RIGHT TO CHANGE THE AMOUNT OF FEES AND RELATED POLICIES OR TO ADD NEW ONES AT ANY TIME IF SUCH ACTION IS DEEMED NECESSARY.

Any fee changes are reflected on the ASU web-site at www.astate.edu

GENERAL REGISTRATION FEES

<table>
<thead>
<tr>
<th></th>
<th>Per Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Tuition</td>
<td></td>
</tr>
<tr>
<td>Arkansas Resident</td>
<td>$142.00</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>$365.50</td>
</tr>
<tr>
<td>Graduate Tuition</td>
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</tr>
<tr>
<td>Arkansas Resident</td>
<td>$179.50</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>$453.50</td>
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<tr>
<td>Infrastructure Fee</td>
<td>$4.00</td>
</tr>
<tr>
<td>Athletics Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Student Union Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Information Technology Fee</td>
<td>$9.00</td>
</tr>
<tr>
<td>Library Fee</td>
<td>$4.00</td>
</tr>
</tbody>
</table>

NOTE: All students pay a $5.00 Assessment Fee per term. Each student enrolled in 3 or more credit hours will be assessed a $20.00 student activity fee for the Fall and Spring semesters. Students enrolled in 12 or more hours will be assessed a $10.00 yearbook fee for the Fall and Spring semesters.

DEGREE CENTER—GENERAL REGISTRATION FEES

<table>
<thead>
<tr>
<th></th>
<th>Per Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular</td>
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<tr>
<td>Off Campus Courses, including distance learning classes, per hour:</td>
<td>$179.50</td>
</tr>
<tr>
<td>Arkansas Resident Undergraduate</td>
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<td>Non-Resident Undergraduate</td>
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<td>Undergraduate NHP Support Assessment</td>
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<tr>
<td>Undergraduate COB Support Assessment</td>
<td>$15.00 per hour</td>
</tr>
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</table>

RESIDENCY REQUIREMENTS FOR FEE PAYMENT

Students should contact the Registrar’s Office concerning residency requirements for university fee purposes. A student who knowingly gives false information in an attempt to avoid out-of-state fee payment shall be subject to dismissal from the university.

MISCELLANEOUS FEES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Clemency Processing Fee</td>
<td>$30.00</td>
</tr>
<tr>
<td>Yearbook Fee Per Semester</td>
<td>$10.00</td>
</tr>
<tr>
<td>(Mandatory for full-time students, optional for part-time students)</td>
<td></td>
</tr>
<tr>
<td>Graduation Fee—Undergraduate, Masters, Specialist, Doctorate</td>
<td>$37, $52, $60, $90</td>
</tr>
<tr>
<td>Student Activity Fee (Fall and Spring semesters only)</td>
<td>$20.00</td>
</tr>
<tr>
<td>Application for Admission Processing Fee</td>
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<td>International Students</td>
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<td>United States Citizens</td>
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<td>ASU Assessment Fee</td>
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<td>Fee for International Students requiring third party billing</td>
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<td>Late Payment of Tuition Fee</td>
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<td>1st Reinstatement Fee</td>
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<td>2nd Reinstatement Fee</td>
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<td>Penalty for Checks Returned for Insufficient Funds, etc.</td>
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<td>Installment Fee</td>
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<td>Tuition Deferment</td>
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<tr>
<td>Audit Fee/Credit hour</td>
<td>Same as Tuition and Fees</td>
</tr>
</tbody>
</table>

Special fees for some departments are shown with the respective departments. Additional course fees vary for each class ranging from $5.00 to $225.00 per course.

*NOTE: Students enrolled in fewer than 12 hours during a regular semester (or fewer than six hours during a five-week term) are classified as part-time students.

ROOM AND BOARD

1. A deposit of $100 along with a housing application is required to reserve a room for any regular semester. A pre-payment of $50 is required for any summer term. Students are required to live in university housing during the entire term of enrollment for which the reservation is made. Students who do not fulfill this requirement will forfeit their room deposits. The room deposit is refundable on the following conditions: (a) if cancellation is made, through the Residence Life office in writing prior to the confirmation date on the contract, (b) if the student has occupied the room until the end of the contract period and then checks out of the residence hall, through the Residence Life office, not later than 24 hours after the last official day of the spring semester, (c) if no damages have occurred during the term of occupancy.
2. All occupants of residence halls are required to participate in a university meal plan. (Optional for commuter students and Collegiate Park and Indian Village rentals)

3. A permanent identification card will be issued to students during the first semester of attendance. A $10 replacement fee will be accessed for lost IDs.

4. The charges for room and board for less than a full semester are computed on the base rate for the period of occupancy.

5. The residence halls and cafeteria will be open during the periods classes are in session. Vacation periods are not included in the regular room and board charges.

6. Residents are expected to occupy their rooms during the entire session for which the rooms are reserved, unless they are forced to withdraw from the university because of illness or other valid reasons.

7. Room and Board may be paid in four (4) installments. Students seeking such arrangements should contact the Office of Finance.

Students are responsible for ALL room and board even when meal cards have been invalidated or they have been locked out due to nonpayment.

RESIDENCE LIFE ROOM AND BOARD RATES— 2005-2006

Fall and Spring Rates per semester

<table>
<thead>
<tr>
<th>Residence Hall</th>
<th>5-Day Plan</th>
<th>5-Day Plan+100 Declining Balance</th>
<th>7-Day Plan</th>
<th>7-Day Plan+50 Declining Balance</th>
<th>Flex Dollars</th>
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<tr>
<td><strong>Double Rates:</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Arkansas</td>
<td>$2,045.00</td>
<td>$2,095.00</td>
<td>$2,070.00</td>
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<tr>
<td>Kays</td>
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<tr>
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<td>Twin Towers</td>
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<td>$1,975.00</td>
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<td><strong>Single Rates:</strong></td>
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<tr>
<td>Arkansas</td>
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<td>Arkansas</td>
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</table>

Meals Only: $970.00 $1,020.00 $995.00 $1,020.00 $1,170.00

*Declining balance points can go up to 200 per semester with equivalent additional cost applied.

Single and Single Deluxe rooms are only available space permitting. Meal plans are mandatory for all residence hall students and may only be changed prior to the end of the first week of the semester. On the 5-Day meal plan, students may enter the Dining Hall unlimited times Monday through Friday. On the 7-Day meal plan, students may enter the Dining Hall unlimited times each day of the week. The 5-Day Plan+100 declining balance adds 100 declining points to the 5-Day Plan, while the 7-Day Plan+50 declining balance adds 50 declining balance points to the 7-Day Plan. The Flex Dollars give the student the flexibility of 925 declining balance points. The declining balance points may be used in the Acansa Dining Hall, Food Court, or the Twin Towers Store. The declining balance points must be used before the end of any given semester.

**SUMMER 2005—ROOM AND BOARD (per five week term)**

<table>
<thead>
<tr>
<th>Residence Hall</th>
<th>Double Meal Plan</th>
<th>Single Meal Plan</th>
<th>Single Deluxe Meal Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas</td>
<td>$275.00</td>
<td>$370.00</td>
<td>$380.00</td>
</tr>
<tr>
<td>250 Flex Points</td>
<td>$250.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 Flex Points</td>
<td>$275.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>350 Flex Points</td>
<td>$300.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Room and board charges are assessed and payable in full at the beginning of each semester. Students seeking installment arrangements should contact the Student Account Services in the Administration Building at (870) 910-8220. Students receiving financial assistance that equals or exceeds their total charges are not eligible for installment arrangements.

Refrigerators/Microfridges are available for rent in the Residence Life office. Refrigerators for Fall/Spring are $30 each semester and $15 a term for the summer sessions or $25 for both Summer terms. Microfridges (refrigerator, freezer, and microwave combination) for Fall/Spring are $60 each semester and $30 a term for the summer sessions.

**COLLEGIATE PARK**

<table>
<thead>
<tr>
<th>Apartment Type</th>
<th>Fall &amp; Spring (per semester)</th>
<th>Summer I &amp; II 2005 (per Term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Bedroom/ 2 Bath</td>
<td>$370.00</td>
<td>$1,665.00</td>
</tr>
<tr>
<td>2 Bedroom/ 1 Bath</td>
<td>$340.00</td>
<td>$1,530.00</td>
</tr>
<tr>
<td>4 Bedroom Townhouse</td>
<td>$320.00</td>
<td>$1,440.00</td>
</tr>
<tr>
<td>4 Bedroom 2 Bath</td>
<td>$280.00</td>
<td>$1,260.00</td>
</tr>
</tbody>
</table>

**INDIAN VILLAGE**

<table>
<thead>
<tr>
<th>Monthly</th>
<th>Fall &amp; Spring (per semester)</th>
<th>Summer I &amp; II 2005 (per Term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Houses</td>
<td>$420.00</td>
<td>$1,890.00</td>
</tr>
</tbody>
</table>

**INDIAN VILLAGE APARTMENTS**

<table>
<thead>
<tr>
<th>Monthly</th>
<th>Spring Semester</th>
<th>Summer I &amp; II 2005 (per Term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Bedroom</td>
<td>$490.00</td>
<td>$2,305.00</td>
</tr>
<tr>
<td>2 Bedroom</td>
<td>$580.00</td>
<td>$2,610.00</td>
</tr>
<tr>
<td>3 Bedroom</td>
<td>$655.00</td>
<td>$2,947.50</td>
</tr>
</tbody>
</table>

Add $25 per month for a two bedroom apartment with washer/dryer connections.

Rent includes all utilities, internet connection, cable, and local phone services. Apartments will be open during all break periods.

**HOUSING FOR FAMILIES AND GRADUATE STUDENTS**

Housing is available for married students with children, single parents, graduate students, and non-traditional undergraduates who are at least 26 years of age. Indian Village consists of 50 two-bedroom houses and 100 apartment units. The houses are furnished with a stove, refrigerator, ceiling fans, dishwasher, and central heat and air.

The houses and Indian Village Apartments are designed to offer affordable, comfortable, and accessible living accommodations to the students and their families. A laundry is located...
in Indian Village for those wishing to take advantage of this service. Application forms and additional information can be obtained from the Office of Residence Life, P.O. Box 2774, State University, AR 72467.

REFUND OF FEES SCHEDULE

<table>
<thead>
<tr>
<th>Semester</th>
<th>Five-Week Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st - 5th class day</td>
<td>100% First and second day 100%</td>
</tr>
<tr>
<td>6th - 10th class day</td>
<td>75% Third and fourth day 75%</td>
</tr>
<tr>
<td>On or after 11th class day</td>
<td>None On or after 5th class day None</td>
</tr>
</tbody>
</table>

Students eligible for refund should contact Student Account Services at (870) 910-8220 when the drop or withdrawal process has been completed.

Academic Policies and Regulations

STUDENT RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS

Each student should thoroughly study this Undergraduate Bulletin and become completely familiar with the organization, policies, and regulations of the university. Failure to do this may result in serious mistakes for which the student shall be held fully responsible.

Through a system of academic advising, Arkansas State University assists each student in planning academic programs, developing course schedules, anticipating graduation requirements, and making decisions affecting educational growth and development. The student is urged to consult an academic adviser each registration period to review policies and degree requirements. Academic advisers endeavor to provide such assistance in a timely and accurate manner, but meeting requirements for graduation is the responsibility of the student.

ASSESSMENT

Arkansas State University (ASU) is dedicated to providing quality academic programs; therefore, assessment for improvement of academic programs is of primary importance to the university. ASU is in compliance with Act 874 of the 1993 General Assembly for administration of the Arkansas Assessment of General Education (AAGE). However, many other ongoing assessment activities occur not only in general education, but also in baccalaureate and graduate degree programs.

REGISTRATION

All students are expected to register for classes on the days designated on the Registrar's web page (www.astate.edu) for a given term. Students may enroll through the first week of classes during a semester, or the first day of a five-week term.

Registration is accomplished through accessing the university's web system. Registration is scheduled on a priority basis according to student classification, which is determined by the number of semester credit hours students have completed plus the number of hours in which students are currently enrolled.

ALL STUDENTS ARE REQUIRED TO CONSULT AN ACADEMIC ADVISER BEFORE REGISTERING FOR CLASSES.

Also, students should be aware that, once they have registered for classes, tuition fee charges will be generated for those courses for which they have registered. Students who register and later decide not to attend should withdraw from their classes prior to the start of the semester to avoid tuition and fee assessment. (SEE NOTES 1 AND 2 BELOW).

(Note 1. For charges applicable for withdrawals after classes begin, refer to the index for the REFUND OF FEES SCHEDULE.)

(Note 2. Instructions for withdrawing are available on the ASU website or from Advising Services at 972-3001).

STUDENT ACADEMIC LOAD

The maximum academic load for students with less than a 3.500 GPA shall not exceed 18 hours per semester, 14 hours during the summer term, which includes any combination of five- or ten-week courses, (Internet or correspondence courses are inclusive and/or other courses no matter how delivered or where taken.), or 3 hours in an interim. However, a one hour overload is permitted during the last enrollment period (semester or five week term) if the one hour overload will complete graduation requirements.

Students holding a cumulative grade point average of 3.50 or above may request permission of the dean of their college to schedule up to 21 hours in a semester and 14 hours total in the two five-week summer terms combined. (This policy is applicable only on a five-days-per-week schedule.)
Students should enroll for no more than fifteen semester hours on a three-day schedule (MWF), or no more than twelve semester hours on a two-day schedule (TTh).

The total academic load resulting from concurrent enrollments at Arkansas State University and other institutions shall not exceed the maximum loads stated above. Correspondence, off-campus or ten-week courses are to be included when computing academic load for each enrollment period.

CHANGES IN SCHEDULE

Changes in class schedules may be made by the web during the scheduled registration periods. Students will not be permitted to add new courses after the first week of classes of a semester or the first class day of a five-week summer term.

STUDENTS SHOULD CONSULT WITH THEIR ACADEMIC ADVISER BEFORE CHANGING CLASS SCHEDULES. STUDENTS RECEIVING FINANCIAL AID OR SCHOLARSHIP SHOULD ALSO CONSULT THEIR FINANCIAL AID COUNSELOR.

DROPPING INDIVIDUAL COURSES: DEADLINES

The final date for dropping individual courses is two weeks prior to the first day of final examinations during Fall and Spring semesters. Academic Affairs will identify appropriate deadlines for other semesters (interims, summer, half sessions). (Refer to the index for DEADLINES. Deadlines are also published on the Registrar's web page (www.astate.edu) for each semester.)

WITHDRAWAL FROM THE UNIVERSITY

(Refer to the index for the Refund of Fees Schedule)

Students may withdraw from the university by the web at any time during the scheduled registration periods.

Students withdrawing from the university after Sunday of the first full week of classes in a semester or Friday of the first week of classes in a five-week summer term must obtain an Application for Withdrawal at the office of Wilson Advising Center. The Wilson Advising Center advisers will assist students in the process to obtain withdrawal approval from the offices of Student Accounts, Financial Aid, Residence Life and the Library. The completed application must be returned to the Wilson Advising Center by the application nullification date. This process must be completed two weeks prior to the first day of final examinations during Fall and Spring semesters. Academic Affairs will identify appropriate deadlines for other semesters (interims, summer, half sessions). Grades earned in courses completed prior to official withdrawal from the university (i.e., short courses) will not be affected by that withdrawal. Classes that have been withdrawn will remain on the student’s transcript with a “W” grade for withdrawal. Once the withdrawal process is complete, the classes withdrawn will not affect the student’s GPA.

Students who cease to attend classes without processing an official withdrawal, or who do not complete the withdrawal process will automatically receive an F in all courses in which they were enrolled.

Students Activated for Military Service

Arkansas code § 6-61-112 provides the following for students called into full-time military duty during an academic semester.

(a) When any person is activated for full-time military service during a time of national crisis and therefore is required to cease attending a state-supported postsecondary educational institution without completing and receiving a grade in one or more courses, the institution shall provide a reasonable opportunity for completion of the courses after deactivation.

(b) When a student is required to cease attendance because of such military activation without completing and receiving a grade in one or more courses, the institution shall provide a like refund to the institution.

(c) A student activated during the course of a semester shall be entitled, within a period of two years following deactivation, to free tuition for one semester at the institution where attendance had been interrupted unless federal aid is made available for the same purpose.

To prevent students who are receiving veteran's benefits from being penalized and having to repay such benefits, students activated during an academic semester who have not completed sufficient course requirements for the awarding of a grade must withdraw from the university. Students should contact the VA representative in the Office of the Registrar immediately upon notification of activation to initiate the withdrawal process.

ADVANCED PLACEMENT CREDIT

The university awards credit to students who participate in their high school Advanced Placement (AP) Program administered by the College Board Placement Test Program. Students who wish to obtain Advanced Placement credit must request the College Board to forward their test scores to Arkansas State University after they have been admitted. Students will be awarded credit in the courses listed below, provided they make satisfactory scores on appropriate AP examinations and meet other requirements designated by the department offering the course.

<table>
<thead>
<tr>
<th>Advanced Placement Exam</th>
<th>Minimum AP Score</th>
<th>ASU Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History</td>
<td>3</td>
<td>HIST 2763</td>
</tr>
<tr>
<td>American History</td>
<td>4</td>
<td>HIST 2783 &amp; HIST 2773</td>
</tr>
<tr>
<td>Aural Perception</td>
<td>3</td>
<td>MUS 1411</td>
</tr>
<tr>
<td>Aural Perception</td>
<td>4</td>
<td>MUS 1411 &amp; MUS 1421</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>BIOL 1003</td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
<td>BIOL 1003 &amp; BIOL 1001</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>4</td>
<td>MATH 2204</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>4</td>
<td>MATH 2204 and MATH 2214</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3 (plus departmental validation of lab skills)</td>
<td>CHEM 1013 &amp; CHEM 1011</td>
</tr>
<tr>
<td>English Lit/Comp or Lang/Comp</td>
<td>3</td>
<td>ENG 1003</td>
</tr>
<tr>
<td>English Lit/Comp or Lang/Comp</td>
<td>4</td>
<td>ENG 1003 &amp; ENG 1013</td>
</tr>
<tr>
<td>English Lit/Comp and Lang/Comp</td>
<td>3, 3</td>
<td>ENG 1003 &amp; ENG 1013</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3</td>
<td>BIOL 1063</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>4</td>
<td>BIOL 1063 &amp; BIOL 1001</td>
</tr>
<tr>
<td>European History</td>
<td>4</td>
<td>HIST 1023</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3 (plus completion of Intermediate II)</td>
<td>FR 2013 or GER 2013 or SPAN 2013</td>
</tr>
<tr>
<td>Government &amp; Politics: US</td>
<td>4</td>
<td>POSC 2103</td>
</tr>
</tbody>
</table>
AUDITING COURSES

All students auditing a course will pay the regular course audit fee as shown under the heading Fees and Expenses. No credit will be awarded for courses audited. The letters AU will be recorded in the grade column on the student's permanent record. Audited courses will be counted as part of the stated maximum load for a semester or term. Students may change to audit during the scheduled registration periods. Students will not be permitted to change to audit after the first week of classes in Fall or Spring semester or the first class day of a Summer term. Students MAY NOT change to audit on the web. (Refer to the index for DEADLINES. Deadlines are also listed in each published schedule of classes.)

Auditors are expected to meet all requirements for a course other than taking examinations and completing formal written papers. The names of those persons registered to audit a course will appear on the class roster.

CREDIT BY EXAMINATION

Arkansas State University provides students the opportunity to earn university credit by examination through the College Level Examination Program (CLEP) and through challenge examinations administered by the academic departments.

College Level Examination Program (CLEP)

The university awards a maximum of thirty semester hours of university credit through CLEP. If a student has attained university-level knowledge in one or more subjects, the achievement may be recognized by the university granting credit for related college courses, provided a satisfactory score is earned in the approved CLEP examination. Credit may be awarded for two general examinations and twelve subject matter examinations. These examinations assess knowledge of fundamental facts and concepts, perception of relationships, and understanding of principles. Questions regarding examination dates, the administration of examinations, and the appropriateness of specific CLEP examinations should be directed to the Testing Center, which administers the program.

Anyone may take the CLEP tests; however, CLEP credit is not awarded for a course the student has already attempted and been assigned a grade, or if the student has already completed a more advanced course in the subject matter area.

Students who are eligible to receive college credit based upon CLEP examination scores shall have credit recorded without grades or grade points on their permanent record after they have been enrolled at Arkansas State University for a full summer or a semester.

CLEP examination credit earned at other institutions of higher education is transferable to Arkansas State University if the subject is included in ASU’s CLEP credit policy.

Students must bear the cost of CLEP examinations.

Department Challenge Examinations

Various academic departments administer challenge examinations in specific courses or on certain subject matter areas upon the request of students enrolled at Arkansas State University. An official form, "Request for Credit by Examination," may be obtained from the Registrar’s Office. Students should contact appropriate deans and department chairs for additional information.

Credit by departmental examination is not awarded for courses the student has already completed, courses less advanced than those already completed, or courses for which a CLEP examination exists.

The student who wishes to take a departmental challenge examination must pay a $50 non-refundable fee prior to taking each examination.

Challenge exams should be taken prior to the student's last semester of enrollment preceding graduation.

RESIDENCY REQUIREMENTS FOR DEGREE COMPLETION

Students seeking an associate or baccalaureate degree must meet ASU's residency requirements. Associate degree candidates must complete a minimum of 16 semester hours on the ASU-Jonesboro campus. Baccalaureate degree candidates must complete a minimum of 32 semester hours on the ASU-Jonesboro campus.

TRANSFER CREDIT POLICY

Students who present transcripts of college-level credit from regionally accredited and international institutions may receive credit toward a degree to the extent that the grades are equivalent to a C (2.0) average and the subjects are determined to be applicable toward requirements for a degree at the university.

The total number of credit hours of accepted college-level work will be entered on the student's permanent academic record. Students may change to audit during the scheduled registration periods. Students will not be permitted to change to audit after the first week of classes in Fall or Spring semester or the first class day of a Summer term. Students MAY NOT change to audit on the web. (Refer to the index for DEADLINES. Deadlines are also listed in each published schedule of classes.)

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Transfer of English Composition courses will not be accepted from international institutions. This policy is normally waived for citizens of the British Isles, Australia, the English speaking portions of Canada and New Zealand.

CLASS ATTENDANCE POLICY
Students should attend every lecture, recitation, and laboratory session of every course in which they are enrolled. Students who miss a class session should expect to make up missed work or receive a failing grade on missed work. Make-up policy is at the discretion of the instructor.

Students enrolled in freshman or sophomore level courses (numbered 1000 or 2000) may during a semester miss no more than twice the number of lectures, recitations, laboratory sessions, or other regularly scheduled class activities that would normally be scheduled during a week. Students who miss more than the maximum number of freshman or sophomore level classes may be assigned a grade of F for the course. Students who may be assigned a grade of F in a course because of excessive absences may drop the course without penalty before the deadline for dropping an individual course.

In determining whether excessive absences should result in a failing grade, consideration shall be given to the maturity and class standing of the student, the quality of academic work being accomplished by the student, and extenuating circumstances related to such absence.

Students enrolled in junior and senior level courses (numbered 3000 or 4000) will not be assigned a grade of F solely for failing to attend classes. However, instructors shall set forth at the beginning of the semester their expectations with regard to make-up policy for work missed, class participation, and other factors that may influence course grades.

WN - WITHDRAWAL FOR NON-ATTENDANCE
Faculty assign a grade of WN (withdrawal for non-attendance) to students who have never attended a single class during the first eleven class days of the semester. Although faculty assign WN’s, students are responsible for dropping/withdrawing from all classes they are not attending. Students should review their schedule of classes using Web for Students to make sure their enrollment is accurate.

Students who find a mistake need to contact the Registrar's Office for proper procedures immediately upon discovery. The WN grade will only be granted or may be appealed through the first day of classes of the following fall or spring semester, whichever comes first.

EXCUSED ABSENCE FOR UNIVERSITY-SPONSORED EVENTS
It is the practice of Arkansas State University to allow students to participate in university-sponsored events, even when those events cause them to be absent from class. Students participating in university-sponsored events will be given reasonable opportunities to make up missed assignments and exams.

FINAL EXAMINATIONS
A final examination is a requirement of all courses except those in which written examinations are not used for evaluating student achievement. Courses that might not have final examinations include, for example, laboratory courses, clinical experience courses, student-teaching courses, fine arts performance and studio courses, readings courses, special problems, independent studies, and internships.

Final examination schedules are published on the Registrar’s web page (www.astate.edu) for each semester. Examinations must be given on the dates scheduled. Exceptions may be granted only for individual students in cases of emergency or other compelling circumstances over which the student has no control. Exceptions must be approved by the dean of the college in which the course is offered.

CLASSIFICATION OF STUDENTS
Beginning students are classified as freshmen; students with 30-59 hours of credit as sophomores; students with 60-89 hours of credit as juniors; and students with 90 or more hours of credit as seniors.

COURSE NUMBERING SYSTEM
Each course is designated by a number composed of four digits and each course number carries the following information: The first digit indicates the course level (0-no degree credit, 1-freshman, 2-sophomore, 3-junior, 4-senior), and the fourth digit indicates the number of semester hours of credit.

The listing of course numbers in descriptions of courses for each college includes the current four-digit number (and the old five-digit number in parentheses).

COURSE PREREQUISITES
No student may enroll in a course before successfully completing the prerequisites to that course. Prerequisites to a course are noted following the description of the course.

FREQUENCY OF COURSE OFFERINGS
A frequency-of-course-offering statement appears at the end of each course description in the college/departments. The information reflects the normal scheduling of the course. However, circumstances may from time to time dictate scheduling changes, and the university reserves the right to make such changes when necessary.

Students should check in advance with department chairs concerning offerings about which they may have a question.

The code symbols are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>fall semester every year</td>
</tr>
<tr>
<td>F-odd</td>
<td>fall semester odd-numbered years</td>
</tr>
<tr>
<td>S</td>
<td>spring semester every year</td>
</tr>
<tr>
<td>S-odd</td>
<td>spring semester odd-numbered years</td>
</tr>
<tr>
<td>SU</td>
<td>summer terms</td>
</tr>
<tr>
<td>D</td>
<td>upon demand (with sufficient enrollment)</td>
</tr>
</tbody>
</table>

GRADES AND GRADING SYSTEM
Students have access to view official grades at the end of each semester and each summer term in which they are enrolled.

Arkansas State University is on a four-point grading system. The grading system includes permanent letter grades and grade point values as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Points per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>excellent; for outstanding achievement</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>good; for less than outstanding but demonstrating better performance than the normal competency required for satisfactory progress toward graduation</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>satisfactory; for performance that demonstrates the normal competency required for satisfactory progress toward graduation</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>poor; for performance that meets minimum course requirements but is below standards required for satisfactory progress toward graduation</td>
<td>1</td>
</tr>
</tbody>
</table>
their academic record from each institution attended.

4. Readmitting students who have been in a non-enrolled status for more than seven years will be required to obtain new transcripts from all institutions previously attended.

5. Transfer students should obtain, for adviser use in scheduling, a reference copy of
   the transcript for each institution attended.

3. Transcripts which have been presented for admission or evaluation of credit become
   considered to be separation.

   *Transcripts showing attempted enrollment ending in withdrawals are not
   considered to be separation.*

1. *separation from all academic institutions for at least five years, and then
2. completion of a minimum of twelve degree hours of credit courses from a regionally
   accredited institution of higher education with a 2.0 or better grade point average, and
   have only the last grade counted in computing the grade point average for undergraduate
   degree requirements. Courses may be repeated anytime before the first degree is awarded.

   The student can select the courses eligible to be repeated as long as these courses meet
   the requirements below.

   1. The student must have earned a grade of D or F in the course.
      Note: A grade of F cannot replace a grade of D. If the grade in the first attempt is a
      D and the grade in the second attempt is an F, both grades will be counted.
   2. Students may repeat up to 18 semester hours.
   3. All other repeated courses will have both grades counted. Degree hours will be applied
      only once toward graduation requirements.
   4. Students may not repeat for credit any course in which they have earned a grade
      of C or better.

   The student should be aware that the grade of D or F from any previous attempts will
   remain on the transcript. The previous attempts will be noted with the following "REPEAT
   (INCLUDED FROM GPA)."

   A formal request for recomputation of grade point averages must be completed and filed
   with the registrar in order to have only the last grade counted for courses which have been
   repeated. Developmental courses are not included in the "Repeating of Courses" policy.

   The department chair, the appropriate college dean, and the registrar will determine the
   application of the repeat course policy in those instances where course numbers and/or titles
   have been changed at Arkansas State University and for courses completed at other
   institutions of higher education. Every student is eligible for the provisions of the repeat policy,
   regardless of the Bulletin year in which the student entered ASU.

   Students who are planning to apply for admission to graduate school should
   take note that most graduate/professional schools recalculate GPAs based upon all
   courses that students have attempted during their college career. Thus, any repeated
   courses will have both grades counted in consideration for graduate school admis-
   sion.

   **ACADEMIC CLEMENCY**

   Academic clemency is a provision allowing a one-time, irrevocable calculation of grade
   point average and credit hours toward graduation to be based only upon work done after a
   prolonged separation from college. This provision is provided for undergraduate students who
   have gained maturity through extended experience outside higher education institutions, and
   are currently enrolled at Arkansas State University and have demonstrated acceptable
   academic performance following their return.

   Requirements to be satisfied by a student prior to requesting academic clemency
   toward an undergraduate degree are as follows:

   1. *separation from all academic institutions for at least five years, and then
   2. completion of a minimum of twelve degree hours of credit courses from a regionally
      accredited institution of higher education with a 2.0 or better grade point average, and
   3. formal application filed with the registrar.

   *Transcripts showing attempted enrollment ending in withdrawals are not
   considered to be separation.*
Upon approval by the Registrar's Office, the student will be granted academic clemency. The student's permanent record will remain a record of all work; however, the student will forfeit the use—for degree purposes at Arkansas State University—of any college or university credit earned regardless of where the credit was earned prior to the five years separation indicated above. The date of the clemency will coincide with the date of re-entry following the prolonged separation, and the permanent record will note that a fresh start was made and will note the date of the fresh start. The record will carry the notation, "Academic Clemency granted - (date of fresh start)." A student requesting academic clemency will pay a fee of $30 to the Registrar's Office.

HONOR ROLL

An honor roll consisting of the President's List and the Dean's List is published at the close of each semester. In order to qualify, students must complete a minimum of twelve semester hours of degree-credit courses.

President's List: Full-time students whose grade point average for the semester is within the range of 3.80 to 4.00.

Dean's List: Full-time students whose grade point average for the semester is within the range of 3.60 to 3.79.

GRADUATION WITH ACADEMIC DISTINCTION/HONORS

Arkansas State University recognizes the academic achievement of graduating baccalaureate-degree students in the following ways:

1. Students with a grade point average of 4.00 on all work attempted and if transfer students, on all Arkansas State University work, shall be designated as graduating summa cum laude.
2. Students with grade point averages of 3.80-3.99 on all work attempted, and, if transfer students, on all Arkansas State University work, shall be designated as graduating magna cum laude.
3. Students with grade point averages of 3.60-3.79 on all work attempted, and, if transfer students, on all Arkansas State University work, shall be designated as graduating cum laude.

NOTE: To receive any of the above designations, students must be seeking their first baccalaureate degree. Students must have completed at least 45 semester hours of graded course work offered by Arkansas State University. Semester hours completed and grade points earned during the student's last enrollment prior to graduation are excluded when determining academic distinction.

4. Students who complete the Honors Program or the University Honors Program shall be designated as graduating "In Honors" or "In University Honors."

WILSON AWARD

The Wilson Award is presented annually to the university's outstanding graduating senior. The recipient is selected on the basis of character, determination, involvement, and academic achievement. This honor is bestowed in memory of R.E. Lee Wilson, a member of the Arkansas State University Board of Trustees from 1917 until his death in 1933.

ACADEMIC GOOD STANDING

Academic Good Standing at ASU occurs when a student achieves a minimum cumulative GPA of 2.00 (C average). The number of semester hours completed includes all college work done by the student. However, only those grades earned at Arkansas State University are used in computing the GPA. Academic Good Standing status allows for continued enrollment in the university and eligibility for participation in various university activities. Although students who are placed on academic suspension and participate in the Restart@state student success program do not meet the required GPA for academic good standing, the continued enrollment privilege provided by this program allows students to continue eligibility for participation in university activities.

ACADEMIC PROBATION AND SUSPENSION

Students entering ASU for the first time are under the retention policy listed below:

Students will receive academic probation at the close of any enrollment period (fall or spring semester) when their current semester or ASU cumulative grade point average (GPA) is below 2.00. Academic probation status will be removed at the end of any enrollment period when both the current semester and ASU cumulative GPA are 2.00 or above. Students receiving academic probation are strongly encouraged to counsel with an academic adviser or call the Wilson Advising Center.

First time, first year students placed on academic probation at the end of the fall semester must enroll in and successfully complete a one-credit study skills course their next enrollment period. Students must contact the Advising Center at 972-3001 for enrollment in the probation program. Students who fail to make contact with this office prior to the first day of class for which the course is required will have their schedules deleted.

Students on academic probation will be suspended for poor scholarship when their current semester and fall or spring ASU cumulative GPA are both below the required 2.00. Students suspended for poor scholarship may apply for readmission under SCHEDULE OF READING FOLLOWING ACADEMIC SUSPENSION.

Exception: Academic eligibility for summer enrollment will not be affected by the academic status at the close of the spring semester; however, academic performance during the summer may be considered when determining readmission for the fall semester.

READEMISSION FOLLOWING ACADEMIC SUSPENSION

First Suspension: Students may seek immediate yet conditional enrollment by making application to the Restart@state Program through the Wilson Advising Center. Successful completion of program requirements will lead to normal admission the subsequent semester.

Second Suspension: With approval of the Wilson Advising Center, students will be granted conditional or automatic readmission after one regular semester on suspension.

Third and Subsequent Suspensions: With approval of the Wilson Advising Center, students will be granted conditional or automatic readmission after two regular semesters on suspension.

Students may contact the Wilson Advising Center to review the terms for admission through participation in the Restart@state Program.

Arkansas State University will not accept for transfer any credit earned at other institutions during a period the student is on mandatory suspension at ASU.

ACADEMIC RECORDS PRIVACY RIGHTS

As a general rule, a student's academic record is confidential and will not be released to unauthorized persons without written approval from the student. The following items are considered public information and may be made available upon inquiry unless the student requests nondisclosure for the enrollment period: name, address, phone number, E-mail address, digital image or photograph, enrollment status, classification (FR, SO, JR…), major degrees obtained and dates conferred, dates of attendance, academic, and non-academic honors.

Requests for nondisclosure are effective until the student notifies the Registrar's Office that the request is to be voided. Voiding the original nondisclosure request may be accomplished in a personal request directly to the Registrar's Office.

Arkansas State University intends to comply fully with the Family Educational Rights and Privacy Act (FERPA) of 1974 which was designed to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with FERPA office concerning alleged failures by the institution to comply with the Act.

Questions concerning the Family Education Rights and Privacy Act should be referred to the Registrar's Office.
UNIVERSITY GENERAL REQUIREMENTS FOR ALL ASSOCIATE DEGREES

Each candidate for an associate degree must meet the following general requirements:

1. Complete HIST 2763, or HIST 2773, or POSC 2103 to satisfy the Arkansas requirement of American history or government.
2. Complete the curriculum as listed under the description of each associate degree program, with a minimum of 62 semester hours.
3. Twelve (12) of the last 18 semester hours must be Arkansas State University work, and the student must meet ASU's residency requirement by completing at least 16 semester hours on the ASU-Jonesboro campus. Exceptions to the "12 of the last 18" regulation may be granted by the dean of the college in which the student is majoring.
4. Earn a grade of C or better in ENG 1003 and ENG 1013.
5. Initiate an INTENT TO GRADUATE form and pay the graduation fee when registering for the final enrollment period before completing all degree requirements (If the student is unable to graduate at the end of the semester for which application has been made, a new INTENT TO GRADUATE form must be filed during the next semester in which the student expects to graduate. If the graduation fee has already been paid, you DO NOT have to repay the fee). An official record of correspondence or transfer work completed at another institution must be on file in the Registrar's Office at Arkansas State University at least three weeks before the degree is to be granted.
6. Have an average of C or better on all work attempted, on work in the major field, and, if a transfer student, on all work taken at this institution.
7. Complete graduation requirements under the provisions of an ASU-Jonesboro catalogue that is not more than seven years old at the time of the student's graduation provided the student was enrolled in residence at a nationally accredited institution of higher education during the year the catalogue was in effect.

UNIVERSITY GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

Each candidate for a baccalaureate degree must meet the following general requirements:

1. Complete the General Education curriculum, with substitutions/additions listed under the description of each degree program. (Transfer students see note under General Education Curriculum for Baccalaureate Degrees.)
2. Meet the English proficiency requirement. Complete ENG 1003 with a grade of C or better before enrolling in ENG 1013. Complete ENG 1013 with a grade of C or better. Students who are not pursuing a teacher education degree must have earned a passing grade in an upper-level English writing course.
3. Complete HIST 2763, or HIST 2773, or POSC 2103 to satisfy the Arkansas requirement of American History or American Government.
4. Fourteen (14) of the last 24 semester hours must be Arkansas State University work. Exceptions may be granted by the dean of the college in which the student is majoring, when conditions stated below are met:
   1) The student must have met ASU's residency requirement by completing 32 semester hours on the ASU-Jonesboro campus.
   2) The student must have earned at least 90 hours at ASU and/or institutions having a formal articulation agreement with ASU.

3) The remaining course work must be completed at a nationally accredited baccalaureate-degree-granting institution.
   A maximum of 25 percent of a baccalaureate degree program may be earned through credit by examination (including CLEP), correspondence, evaluated military service credits, and USAFI courses. Students may submit toward a baccalaureate degree a maximum of 30 semester hours earned through credit by examination. (Arkansas Act 88 of 1979 exempts nursing students from these maxima. Confer with the Dean of the College of Nursing and Health Professions for information.)
4. Complete a minimum of 124 semester hours (additional hours may be required by the various colleges for particular majors) and meet the requirements for a degree as outlined in the respective colleges' requirements. NOTE: Students transferring from two-year collegiate institutions must complete a minimum of 57 semester hours in accredited senior college courses as a prerequisite to the baccalaureate degree.
5. Complete a minimum of 45 semester hours of junior-senior level courses after earning 30 degree credit hours. (UPPER LEVEL COURSES COMPLETED BY A STUDENT BEFORE HE/SHE HAS EARNED 30 DEGREE-CREDIT HOURS CAN NOT BE COUNTED AS JUNIOR-SENIOR CREDIT.)
6. Initiate an INTENT TO GRADUATE form and pay the graduation fee when registering for the final enrollment period before completing all degree requirements. August graduates should initiate an INTENT TO GRADUATE form and pay graduation fee when registering for first summer term. (If the student is unable to graduate at the end of the semester for which application has been made, the student must again file an INTENT TO GRADUATE form during the next semester in which graduation is planned. If the graduation fee has already been paid, you DO NOT have to repay the fee). An official record of correspondence or transfer work completed at another institution must be on file in the Registrar's Office at Arkansas State University at least three weeks before the degree is to be granted.
7. Have an average of C or better on all work attempted, on work in the major field, on work in the minor field if one is completed, and, if a transfer student, on all work taken at this institution. (These are minimum grade averages and some colleges on the campus will require higher averages.)
8. Complete graduation requirements under the provisions of an ASU-Jonesboro catalogue that is not more than seven years old at the time of the student's graduation. Provided the student was enrolled in residence at a nationally accredited institution of higher education during the year the catalogue was in effect.

NOTE: See 43 under Degree Requirements of the College of Business for limitation on College of Business course credit for students not completing College of Business Core Courses.

MAJORS AND MINORS

All degree programs, except those for the Associate in General Studies and the Bachelor of Science in Interdisciplinary Studies, require students to complete an academic major. Additionally, students may complete academic minors. Academic minors are required in some colleges and are recommended in all colleges. Some restrictions on minors may be imposed by academic departments and colleges. Requirements for academic majors and minors are listed as departmental programs. (Refer to the index for a list of ACADEMIC MAJORS AND MINORS offered by Arkansas State University). Minors must be completed at the same time the baccalaureate degree is completed. A minimum GPA of 2.00 is required for a minor unless otherwise specified.

REQUIREMENTS FOR A DOUBLE MAJOR

Students who seek a double major or students working concurrently on a second baccalaureate degree, MUST meet the requirements of both degrees and majors under the
provisions of the ASU bulletin in effect during the student's enrollment in college. Double majors must be completed at the same time. Work completed after the awarding of the first baccalaureate degree may be applied to a second baccalaureate degree under the terms listed in the Requirements For An Additional Baccalaureate Degree.

REQUIREMENTS FOR AN ADDITIONAL BACCALAUREATE DEGREE

Students who wish to complete additional baccalaureate degrees in other fields of study must satisfy the following requirements:

- Complete graduation requirements under the provisions of an ASU-Jonesboro catalogue that is not more than seven years old at the time of the student's graduation, provided the student was enrolled in residence at a regionally accredited institution of higher education during the year the catalog was in effect.
- Meet the residency requirements.*
  *If the first degree was awarded by ASU, the student will complete the remaining degree requirements in residence.
- If the first degree was NOT awarded by ASU, the student must complete a minimum of 32 hours in residence at ASU (residency requirement) and meet the requirements of the degree sought.
- Regardless of where the first degree was awarded, students must have completed ENG 1003 and ENG 1013 with a 'C' or better and HIST 2763 or HIST 2773 or POSC 2103 (or equivalent courses).

NOTE: Academic ranking and academic honors designations are applicable to the first baccalaureate degree only.

NOTE: GPA calculation is based on all ASU-Jonesboro work including the first degree earned.

Services for Students

Every residential campus is a city unto itself; and, like any other city of similar size and complexity, Arkansas State University seeks to respond to the hierarchy of service and developmental needs of its citizens. Services for Arkansas State University students are provided through many different offices and departments of the university.

OFFICE OF STUDENT AFFAIRS

The Office of Student Affairs at Arkansas State University is under the leadership of the Vice Chancellor for Student Affairs. The goals of the Office of Student Affairs are to assist students in eliminating obstacles which interrupt their educational progress and to broaden students’ opportunities for personal, social, cultural, and intellectual development within the campus environment. Some specific objectives are (1) to improve the students’ basic skills required for the selection and achievement of educational goals, (2) to assist students in their selection and pursuit of career and vocational choices, (3) to provide direction and guidance for students in their personal, social, and cultural growth and development, and (4) to provide services that respond to the unique needs of specific groups within our diverse population and to the demands and responsibilities of campus life. Personnel in different areas of Student Affairs work cooperatively toward the achievement of these goals and objectives. The Vice Chancellor for Student Affairs is located in the Administration Building.

OFFICE OF INTERNATIONAL STUDENT AND SCHOLAR SERVICES

The Office of International Student Services acts as a liaison between the international students at Arkansas State University and all those with whom these individuals come into contact, representing the students’ best interest and advising them accordingly. The staff provides informational programs and services designed to make the international students’ ASU experience as productive as possible. It offers an orientation for arriving students, assistance with the various facets of acculturation, personal counseling, and immigration advising to help students maintain legal status with the Department of Homeland Security. The office sponsors workshops and monthly social programs and prepares a monthly newsletter to keep international students informed about those topics of particular interest to them. Staff members also work with the International Student Association, and other groups of international students, to plan and promote social activities and cross-cultural programs. International Student and Scholar Services is located in Room 2064B of the Student Union.

OFFICE OF INTERNATIONAL PROGRAMS

The Office of International Programs (OIP) is responsible for advising students, faculty, and staff on international educational opportunities abroad. It also administers international exchange programs, assists in recruitment of international students, serves as campus Fulbright advisor, and oversees the Center for English as a Second Language (CESL). Short-term study programs, frequently offered during Spring Break or the summer, can be arranged for individuals, small student groups, or University classes. Semester and year-long exchanges allow students to experience in more depth another culture while continuing to make regular progress toward a degree, and thanks to special agreements, can cost little more than the same period of study on the Jonesboro campus.

Programs exist for students in several majors, including business, agriculture, the visual arts, political science, history, languages, and others. Courses in many of these areas are available in English. Currently, ASU has in place, or is developing, exchanges and short-term programs in the following countries:

- Austria
- Belgium
- Brazil
- China
- Costa Rica
- England (UK)
- Finland
- France
- Germany
- Iceland
- Italy
- Jordan
- The Netherlands
- Russia
- Spain
- Thailand

Those interested in study or research projects involving the Near East and North Africa may request funding through the Middle East Studies Committee, coordinated through OIP. Visit OIP in Global Crossroads, 200 International Education Center, 972-3800, oips@astate.edu, http://intlprograms.astate.edu.
STUDENT LIFE / ASSESSMENT

The Student Life / Assessment Unit of Student Affairs consists of several professional service areas including the Counseling Center, Student Health Center, Disability Services, Career Services, and the Office of Student Conduct, Rights, and Responsibilities. This Unit of Student Affairs is also responsible for coordinating the division-wide assessment process.

All departments within the Unit of Student Life / Assessment are mindful that an education promotes personal growth, academic success, critical thinking skills, and character development. The mission of this Unit is to enhance the out-of-class experience for students at Arkansas State University. The Unit of Student Life / Assessment constantly thrives to provide appropriate educational opportunities that are reflective of the demographic and development profiles of all student.

In conjunction with this mission and to reach the goals of Student Affairs, the division-wide assessment program develops guidelines to acquire, analyze, and generate reports on student success, experience, and satisfaction. Therefore, this process provides a structure to implement evaluation, establish short and long-term planning goals, review, and change, to best serve the social and academic needs of students at Arkansas State University.

COUNSELING CENTER

The Counseling Center provides specialized services to the university community that help students perform better academically, cope with emotions, and be more effective in relationships with others. Services are performed by psychologists, counselors, counseling interns, and counseling practicum students. All clinical staff are licensed and services are always performed by those whose skills and training are appropriate to the task.

The center offers daily drop-in hours when students can see a counselor without an appointment and discuss any concerns they may have. Both individual and group counseling are available for discussion of stress management, depression, anxiety, grief, or any other concerns about ways of handling the pressures of college life.

The Counseling Center is located in Suite 302, Chickasaw Building. Business hours are 8 a.m. to 5 p.m. Monday through Friday. You may contact us by telephone at (870) 972-2318.

UNIVERSITY POLICE DEPARTMENT

The University Police Department emerged from the General Assembly of the State of Arkansas, Act 326 of 1967. The Act authorizes state institutions to regulate traffic and other areas of institutional property.

The department is to enforce all federal, state, and local laws of its jurisdiction.

The University Police Department is staffed with eighteen officers and one secretary. The office is open 24 hours a day, with four police radio dispatchers. There are university police officers on duty around the clock, 365 days a year.


The University Police Department also conducts Crime Prevention classes and has free prevention literature. For more information you can call or e-mail us at JChapman@astate.edu.

We are located at 623 University Loop and our mailing address is P.O. Box 2767, State University, AR 72467. You may also contact our office by telephone at (870) 972-2093.

DISABILITY SERVICES

Dr. Jennifer Rice-Mason has been designated as Arkansas State University’s Coordinator of Disability Services. As such, she is the university's compliance coordinator for Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) and ADA Accessibility Guidelines (ADAAG). In this capacity, Dr. Rice-Mason arranges for academic adjustments and auxiliary aids to be provided to qualified students and coordinates workplace accommodations. She also is the individual to whom concerns about physical access to facilities, building and grounds should be addressed. Additionally, she provides assistance with orientation, registration, and disabled students' applications for scholarships. The Disability Services Office is located on the third floor of the Chickasaw Building. The telephone number is (870) 972-3964. The number for the Telecommunications Device for the Deaf (TDD), located in the Disability Services Office is (870) 972-3965.

Arkansas State University will provide auxiliary aids, without cost, to those students with verified disabilities who request such services. If service providers are necessary, Arkansas State University will provide appropriately trained providers.

FINANCIAL AID/SCHOLARSHIP OFFICE

The primary purpose of the Financial Aid/Scholarship Office is to provide financial resources to students who would otherwise be unable to pursue a college education.

Information on available financial aid is disseminated to both currently enrolled and prospective students.

The staff in the Financial Aid/Scholarships Office seeks to accomplish this purpose by making every effort to meet the demonstrated financial needs of all students enrolled at Arkansas State University. Financial aid is awarded on the basis of demonstrated need except where funds are specified for recognition of special talents or abilities. Practices and procedures followed by the Financial Aid staff ensure fair and equitable treatment for all applicants.

The director and the staff of the office compile composite financial aid packages for individual students to provide maximum grant and scholarship funds, along with part-time employment, in order to keep the necessity for loans at a minimum. They assist students in seeking, obtaining, and utilizing to the best advantage all financial resources available.

The office seeks to obtain maximum funding for all aid programs—federal, institutional, and state sources.

Detailed information and financial aid application forms may be obtained by writing the Financial Aid Office, P.O. Box 1620, State University, AR 72467 or by calling (870) 972-2310.

All applications for federal student assistance must be received by the Financial Aid/Scholarship Office prior to July 1 of the award year to ensure delivery of funds by the beginning of the Fall term.

Federal Aid Programs

Federal Work-Study Program
Federal Parent Loan for Undergraduate Students
Federal Pell Grants
Federal Perkins Student Loan
Federal Stafford Student Loan (subsidized and unsubsidized)
Federal Supplemental Educational Opportunity Grants

State Programs

Arkansas Academic Challenge Scholarship
Arkansas High Technology Scholarship
Arkansas Student Assistance Grant
Distinguished Governor's Scholarship
Emergency Secondary Education Loan for Math/Science Majors
Governor’s Scholarship
Minority Teachers Scholarship
Second Effort Scholarship

University Aid Programs (see below for details)

Academic Scholarships*
Athletics
Fine Arts (Applied Music, Art, Band, Debate, Theatre)
Grants-In-Aid
Future Delta Leaders Service Scholarship
Other Privately Endowed Scholarships

There are approximately 200 scholarship programs funded by various individuals, organizations, and industries available to Arkansas State University students. For a complete listing of these scholarships call or write to: Financial Aid/Scholarship Office, P.O. Box 1620, State University, AR 72467, phone (870) 972-2310.

CAREER SERVICES CENTER
Chickasaw Building, Room 303
(870) 972-3025 Office Hours: Monday – Friday, 8:00 am – 5:00 pm

The Career Services Center offers a variety of employment and career-related services to help you prepare for your future as a productive global citizen.

Individual career guidance is available to help you explore options for career opportunities within your majors. We have access to salary information, recruiting trends, corporate recruiter contacts, labor market information, current employment demand by major, and links to employers who are actively recruiting college graduates. Computerized career guidance that links your choice of major and goals to occupational information is available.

Career Services sponsors numerous career events that include job fairs, graduate school expositions, workshops, seminars, and presentations on career development and career preparation.

Career Services posts openings for career jobs, internships, and part-time jobs (on and off campus jobs, and Federal Work-Study jobs) in our Smoke Signals web system daily. Schedules of employers conducting interviews in the Career Services Center are also listed in Smoke Signals. Interviews are held on-campus, and sometimes at employer sites, and are for full-time career jobs and internships. The ability to apply for jobs and interviews online is a component of our Smoke Signals system.

Students from the entire Arkansas State University system are served through Career Connections – the ASU Virtual Career Center. For assistance or more information visit us on the web at http://careers.astate.edu, where we are open 24 hours daily.

STUDENT CONDUCT

The enrollment of a student at Arkansas State University is a voluntary entrance into the academic community. By such entrance, the student voluntarily assumes obligations of performance and behavior which are imposed by the university relevant to its lawful missions, processes, and functions. These obligations may be much higher than those imposed on all citizens by civil and criminal law, and the university reserves the right to discipline students to secure compliance with these higher obligations.

Students are expected to conduct themselves in an appropriate manner and conform to standards considered to be in good taste at all times. This implies a consideration of the welfare and reputation of the university and other students enrolled at the university. Students exhibiting behavior problems not compatible with good citizenship can expect to be reminded, have certain restrictions imposed or, in extreme cases, be denied the privilege to continue as students.

The university maintains a Code of Conduct which is printed in the Student Handbook covering specific conduct and due process issues. All students are expected to know and observe these rules and regulations.
STUDENT HEALTH CENTER & PHARMACY

ASU’s Student Health Center (SHC) is like a primary care doctor’s office whereby students can be seen for minor illnesses, injuries, immunizations, and general physical exams as well as specific female and male exams, and chronic health conditions. There are two nationally certified Advanced Nurse Practitioners, a registered Nurse Health Educator, a part-time Pharmacist, and part-time Pharmacy Technician. Athletic Training, Health Promotion, and Nursing students rotate through the clinic.

The SHC is located on Stadium Blvd. adjacent to First Care and the Sports Medicine facilities. Our entrance faces the Football stadium parking lot. The ASU Pharmacy is located within the SHC building and has limited hours of operation. In order to have a prescription filled at the pharmacy, you must see one of the clinicians on staff at the SHC and/or a clinician that is an approved affiliated members of the SHC. The SHC is open Monday through Friday, from 8 a.m. to 5 p.m. The SHC prefers for students to fill to make an appointment with one of the Family Nurse Practitioners or Nurse Educator, however, walk-ins may be accepted. The clinicians and pharmacist usually take a lunch break from noon to 1:00 p.m.

If a student should become ill or injured during the hours the center is not open, he or she may go to the First Care Acute Care Center that is adjacent to the SHC, or to one of the local emergency rooms at St. Bernard’s Regional Medical Center in Jonesboro or Regional Medical Center of Northeast Arkansas. There are other Urgent Care Walk-in Clinics also available in the city limits of Jonesboro.

If an ambulance is needed from the residence halls, please contact a staff member in order to ensure proper and quick service. Arkansas State University does not assume responsibility for payment of emergency room fees, prescription, or outside test (x-rays, labs, etc.)

The university offers each student the opportunity to purchase an accident and hospitalization insurance policy as part of a group consisting of ASU students enrolled in other universities across the state. Membership in the group is voluntary. This insurance is provided by a company, and the university assumes no responsibility for collecting premiums or for paying claims. Unless a student has insurance coverage under a family policy, it is recommended that this policy be considered. Brochures may be obtained at the SHC.

RESIDENCE HALL GOVERNANCE

The university holds the view that the residence hall setting provides excellent opportunities for self-governance. Each residence hall has a Residents’ Council for implementing this concept. The councils involve residents in the principles of self-government through responsible leadership and also provide programs of interest to the residents.

RESIDENCE LIFE

The Department of Residence Life offers on-campus housing for full time college students in one of our four residence halls: Arkansas Hall, Kays Hall, Twin Towers, and University Hall. Students who have earned at least sixty hours of college credit can reside in the Collegiate Park apartment complex. Housing is also available for students with families as well as nontraditional (undergraduates who are at least 26 years of age) and graduate students in Indian Village.

All single undergraduate students who have completed fewer than sixty (60) hours and are under twenty-one years of age must live on campus, unless living with parents or immediate relatives.

Any single student under twenty-one years of age with fewer than sixty (60) hours who plans to reside off campus in compliance with the above regulation must file an off-campus housing form with the Residence Life Office, P.O. Box 2774, State University, AR 72467. Single rooms are offered on a space-available basis only.

Any inquiries concerning student on campus housing should contact the Office of Residence Life. A $100.00 deposit is required to reserve university housing. To reserve university housing, a $100 deposit and housing application are required.

STUDENT ACTIVITIES BOARD (SAB)
(http://union.astate.edu/involve.html)

SAB plans activities and events for all ASU students with responsibility for some of the largest events on campus, including Welcome Week, Homecoming, ASU Pride Day, Martin Luther King Jr. Celebration, International Week and Springfest. The Board is composed of a president and eight student directors in charge of the following committees: Spirit Club, Special Events, Union Events, Cinematic and Fine Arts, Issues and Awareness, and Cultural Enrichment. SAB welcomes your participation by joining one of its committees--GET INVOLVED!

NEW STUDENT ORIENTATION

This summer program aids all new and entering students in their transition to the university. This program exposes all new students to an array of social and educational opportunities. Students are advised of academic majors and are assisted in their class registration. Parents also enjoy a unique program of events that involves their participation in their student's collegiate experience

TESTING CENTER

The ASU Testing Center is certified by Educational Testing Service (ETS), American College Testing (ACT), the Psychological Corporation and several private boards and societies to coordinate the administration and security of standardized testing programs. Through our Testing Center, students seeking admission to specialized undergraduate degree programs or postgraduate programs can take the required exams on any national test date. One program gives students the opportunity to earn college credit-by-exam. The Testing Center also administers exams to individuals from the surrounding communities to certify proficiency in the fields of teaching, contracting, or counseling.

The specific tests administered by the ASU Testing Center are listed below.

- **Credit-by-exam**
  - College Level Exam Program (CLEP)
  - ACT Assessment
  - Test of English as a Foreign Language (TOEFL)**
  - Undergraduate Admission
  - PRAXIS I: Pre-Professional Skills Test (PPST)*
    - offered on computer/paper-pencil
  - PRAXIS II: Specialty Area Tests
    - offered ONLY on computer
  - PRAXIS II: Specialty Area Tests
    - **offered ONLY on computer
  - PRAXIS II: Specialty Area Tests
    - **offered ONLY on computer
  - Post-Graduate
    - Graduate Record Exam (GRE)**
    - Graduate Management Admission Test (GMAT)**
  - Undergraduate Admission
    - Law School Admission Test (LSAT)
    - Miller Analogies Test (MAT)
    - Medical College Admission Test (MCAT)
    - National Association of Board of Pharmacy (NAPLEX)
    - Pharmacy College Admission Test (PCAT)
  - Occupational Certification
    - PRAXIS II: Specialty Area Tests
    - PRAXIS II: Multiple Subjects Assessment
    - for Teachers (MSAT)
    - for Teachers (MSAT)
    - National Counselor’s Exam (NCE)
    - National Counselor’s Exam (NCE)

VOCATIONAL REHABILITATION

Persons who have a permanent disability may receive personal and vocational counseling and financial assistance while pursuing their college education. The vocational objective of the disabled person must be approved by a Vocational Rehabilitation counselor. These services are available through the Division of Vocational Rehabilitation, State Department of Education, Little Rock, AR 72201. Information relative to the program may be obtained from the Student Account Services or the Coordinator for Special Services located in the Office of Student Affairs.
Activities and Organizations

STUDENT GOVERNMENT ASSOCIATION (SGA)
(http://sga.astate.edu)
SGA is your liaison to the administration of Arkansas State University. This vital organization works as an advocate for student interests and concerns, becoming your voice to the University's faculty, staff, and administrators.

Each college has representation and both undergraduate and graduate students are represented by classification. In addition, the international students and non-traditional students have a senator. These senators and SGA staff members serve on many shared governance committees, representing your concerns in matters as important as financial aid and scholarship, safety, parking and motor vehicle and student disciplinary areas.

For more information on Student Government Association at Arkansas State University, visit the SGA website at http://sga.astate.edu or contact the office at 972-2050.

SOCIAL ORGANIZATIONS
Arkansas State University recognizes nine national sororities and thirteen national fraternities.

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All of these social organizations encourage high scholarship, social training, and good citizenship.

ACADEMICALLY RELATED ORGANIZATIONS
The various major areas of the university sponsor activities and clubs which are open to persons who choose to major in the respective areas. The clubs provide opportunities for both academic and social interests of the members. They meet each month to study special current problems peculiar to their major interest and to promote fellowship, social activities, and understanding among the students of the different areas. These groups are listed under the name of the college with which they are affiliated.

College of Agriculture
Agriculture Business Club
ASU Rodeo Club
Block and Bridle Club
Plant Science Club
Prevet Club
Delta Tau Alpha
Collegiate FFA
Alpha Tau Alpha

College of Business
Accounting Club
Data Processing Management Association
Association of Information Technology Professionals (AITP)
Society for Human Resource Management (SHRM)
The Educational Society for Resource Management (APICS)

VOLUNTEER SERVICES PROGRAM
The university encourages students to engage in various types of community service opportunities that will enhance their college experience. The program is designed to help college students pursue experiences related to their field of study through volunteer work, as well as provide needed services for individuals and organizations/agencies of the community. Additionally, the Volunteer Services coordinator recruits volunteers who can assist ASU students who have disabilities. In general, student volunteers are referred to appropriate organizations/agencies in the immediate area. Craighead and other surrounding county students receive appropriate training and are provided guidance relative to their volunteer work.

Students may receive course credit for involvement in volunteer work with the approval of a faculty member who has the student in a relevant class. Interested students may assist with the design and selection of the community service task. Options for public service involvement can be explored and/or initiated by a student or an instructor.

Interested students should call the Tribal Leadership Center, 972-2055.

VETERANS ADMINISTRATION BENEFITS
Veterans of recent military service, and the dependents of certain other servicemen, may be entitled to educational assistance payments from the Veterans Administration.

Reservists and members of the National Guard may be eligible for monthly educational benefits.

Arkansas State University is an approved institution for veterans and veterans' beneficiaries training.

For information regarding VA Benefits, contact the VA University Official in the Office of the Registrar at 972-2031.
**College of Communications**
- Gamma Epsilon Tau

**College of Education**
- Association of Childhood Education International
- ASU Sports Medicine Club
- Modern Dance Club
- Physical Education Majors

**College of Engineering**
- American Society of Agricultural Engineers Student Chapter
- ASU Student Chapter of The American Society of Civil Engineers
- American Society of Mechanical Engineers
- ASU Student Branch of The Institute of Electrical and Electronics Engineers
- National Society of Black Engineers
- Society of Manufacturing Engineers
- The Alpha East Arkansas National Society of Professional Engineers

**College of Fine Arts**
- Arkansas Print Club
- Art Directors Club
- ASU Singers & Concert Choir
- Pottery Club
- ASU Art Student Union

**College of Humanities and Social Sciences**
- ASU Philosophy Club
- ASU Social Work Club
- ASU Model UN
- ASU Arab League
- Gamma Theta Upsilon
- Pi Alpha Alpha
- Pi Alpha Theta
- Pi Gamma Mu
- Pi Sigma Alpha
- The English Club

**College of Nursing and Health Professions**
- ASU Student Nurses Association
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**College of Science and Mathematics**
- ASU Medical Arts Club
- Society of Physics Students

**Department of Military Science**
- ROTC Ranger Challenge Platoon

**SPECIAL INTEREST ACTIVITIES**

**Adult Student Union of ASU:** To provide support for and offer programs geared to the particular needs of non-traditional students.

**"A" Team:** To perform drill and pom-pom activities at home football and basketball games.

**ASU Art Students Union:** To promote ASU through art activities region wide, to encourage individual growth among art students by providing professional experiences on and off campus, to increase campus awareness of the Fine Arts, and to culturally enrich ASU with art from its regional area.

**ASU Botany Club:** To promote interest in the botanical sciences/plant sciences.

**ASU Chapter of the NAACP:** To foster the improvement of the political, educational, social and economic status of minorities; encourage the elimination of racial prejudice; and stimulate an appreciation of minority contributions to society.

**ASU Cheerleaders:** To represent the student body at various athletic functions throughout the year.

**ASU Diamonds:** To serve as hostesses of the baseball team; perform duties of ushers, bat-girls and media runners; decorates locker rooms and provides "goody" bags for the team.

**ASU Drill Team:** To perform drill and pom-pom activities at home football and basketball games.

**ASU Gaming Society:** To provide and organize role-playing games, collectible card games, and strategy board games for ASU students.

**ASU Honors Association:** To foster social contact, the exchange of ideas among honors students and faculty, and encourage intellectual freedom, achievement, and growth among its members.

**ASU Indianettes:** To serve as an athletic hostess board with a concentration in football recruitment.

**ASU Language Club:** To promote the study and use of languages other than English through a variety of social and academic activities.

**ASU Rugby Football Club:** To offer any full time student or faculty member the opportunity to play and travel to other universities to play the sport of rugby.

**ASU Wildlife Ecology Club:** To promote and prepare students who have an interest in wildlife management.

**Black Graduate Student Association:** To promote interaction among black graduate students and improve relations with faculty and students.

**Black Student Association:** To develop university spirit among Black students, to promote high academic standards, to enhance social life, to promote racial harmony, and to serve as a medium between the Black student and administrative bodies.

**Chinese Students Association:** To promote cultural and social awareness of the Chinese culture.

**Circle "K" International:** To provide the opportunity for leadership development in service on the campus and in the community.

**College Democrats:** For those students interested in State and National Democratic Party activities.

**College Republicans Club:** For those students interested in State and National Republican Party activities.

**Delta Hall Residence Hall:** Governing body of Delta Hall.

**Ducks Unlimited:** This ASU chapter shall have as its primary purpose the generation of funds to be used by Ducks Unlimited, Inc., for developing, preserving, restoring and maintaining waterfowl habitat on the North American continent, and educating the general public concerning wetlands and waterfowl management. In so doing, this ASU Chapter shall strive to develop an interest in the objectives and goals of Ducks Unlimited, Inc., at the college level and provide a means for those interested for communication within the organization.

**ECHO:** To promote ecological awareness through education and participation in environmental concerns.

**Forensics/Debate Squad:** Students who meet general eligibility requirements may participate in intramural and intercollegiate debate, group discussion, extemporaneous speaking, impromptu speaking, after-dinner speaking, oratory, radio speaking, prose and poetry reading, and similar events. Both contest and non-contest events are held on campus and at other colleges. The Pi Kappa Delta honorary fraternity is active in sponsoring campus-wide speech activities.

**Graduate Student Advisory:** To provide a forum for graduate students to express their concern for the welfare of the graduate students at the university.

**Indian Village Association:** To serve as the governing body of family housing and to provide a voice to the students residing in Indian Village.

**Intercolligate Athletics Program:** Included in the intercollegiate athletics program are baseball, basketball, football, golf, ROTC Rifle Team, tennis, track, and volleyball.

**International Reading Association:** To promote interest in the botanical sciences/plant sciences.

**International Students Association:** To promote interaction among black graduate students and improve relations with faculty and students.

**International Students Association:** To provide social and cultural activities that will stimulate an appreciation of minority contributions to society.

**ASU Singers & Concert Choir**
- Pi Sigma Alpha
- The English Club

**ASU Student Nurses Association**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Social Work Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Sport Management Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Veterinary Medicine Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Wildlife Ecology Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Women's Basketball Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Women's Basketball Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Women's Volleyball Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

**ASU Women's Wrestling Club**
- Student Association of Clinical Laboratory Professionals
- Physical Therapy Student Association
- Student Radiologic Technologist Assoc.

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Arkansas State University is a state-supported institution and therefore non-denominational in its religious activities. To serve as a governing body for University Hall, the way by being a friend to all.

ASU SPEECH AND DEBATE TEAM—Intercollegiate debate and forensics competition. To promote an increased knowledge of the science, design, development, construction, language, and applications of modern computing machinery.

AMERICAN CHEMICAL SOCIETY—National organization for students majoring in chemistry.

AMERICAN CRIMINAL JUSTICE ASSOCIATION (LAMBDA ALPHA EPSILON OF ASU)—To foster professionalism between university students and faculty interested in criminal justice and law enforcement, and various law enforcement agencies associated with the community.

AMERICAN MARKETING ASSOCIATION—To foster scientific study and research in the field of marketing.

AMERICAN SOCIETY OF AGRICULTURE ENGINEERS STUDENT CHAPTER—To promote the interests of agricultural engineering students relative to their professional advancement and to the American Society of Agricultural Engineers.

ASSOCIATION FOR CHILDHOOD EDUCATION INTERNATIONAL—An international organization dedicated to the fulfillment of every child's potential and to the professional development of educators.

ASSOCIATION OF COMPUTING MACHINERY—To promote an increased knowledge of the science, design, development, construction, language, and applications of modern computing machinery.

ASSOCIATION OF WOMEN IN COMMUNICATIONS—To promote the advancement of women in the field of communications, to work for the first amendment rights and responsibilities of communicators, to recognize distinguished professional achievements, and to promote high professional standards throughout the communications industry.

ASU AMERICAN ADVERTISING FEDERATION—To promote better understanding of advertising, professionalism, increased skills, and creativity.

ASU CHAPTER OF THE NATIONAL STUDENT NURSES ASSOCIATION (NSNA): NSNA is an organization for nursing majors and pre-nursing students. Members may participate in various programs and projects at local, state, and national levels.

ASU NATIONAL REHABILITATION COUNSELOR ASSOCIATION (ASURCA)—To advance the role and functions of Rehabilitation Counseling in the rehabilitation process of all persons with disabilities through public awareness and professional development.

ASU SPEECH AND DEBATE TEAM—Intercollegiate debate and forensics competition.

RELIGIOUS ACTIVITIES

Arkansas State University is a state-supported institution and therefore non-denominational, but is distinctly interested in the religious life of its students and encourages them to attend regularly the churches of their choice. Active groups are Ambassadors, Baptist Student Union, Canterbury House, Chi Alpha, Christ on Campus Student Fellowship, Church of Christ, Churches of all the leading denominations are located in Jonesboro. They are actively interested in the young people attending the university and welcome them to all their services.

HONORARY AND PROFESSIONAL ORGANIZATIONS

Arkansas State University recognizes a number of outstanding honorary and professional fraternities. These include:

AGRICULTURE BUSINESS—A professional organization for agriculture business students to promote academic and leadership qualities.

ALFRED R. SKOOG MEMORIAL CHAPTER OF THE AMERICAN CHORAL DIREC-TORS ASSOCIATION—To further the knowledge and enjoyment of music in our schools and community.

THE ALPHA EAST ARKANSAS NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS—For students studying to become professional engineers.

ALPHA ETA SOCIETY—National honorary society for students in allied health.

ALPHA KAPPA DELTA—International honorary society for students in sociology.

ALPHA LAMBDA DELTA—National scholastic honorary society for freshmen.

ALPHA PSI OMEGA—An honorary fraternity which supports theatre activities.

ALPHA TAU ALPHA—National professional fraternity for students majoring in agriculture education.

Interfaith Christian Student Union, Missionary Baptist Student Fellowship, Muslim Student Association, Nazarene Campus Ministries, Newman Club, Standard Bearer of ASU, Student Association of Church of Jesus Christ of Latter-Day Saints, Wesley Foundation, and Fellowship of Christian Students.

United Voices Gospel Choir: To serve as a medium for God through songs that provide uplifting spirits both on and off campus, to sing praises unto the Lord, and to help others find the way by being a friend to all.

University Hall Council: To serve as a governing body for University Hall.

Kays Hall Association: To administer and coordinate programs for the residents; to promote a spirit of unity; to encourage responsibility; to serve as a medium whereby the standards and ideals of ASU may be maintained.

Malaysian Students Association: To provide common meetings for the promotion of cultural and social interests and to further understanding among all Malaysian students on campus.

Model United Nations Organization: Open to any student who wishes to learn more about international affairs by becoming part of a delegation to Model United Nations meetings.

Music: Choral groups, such as the ASU Concert Choir, the ASU Madrigal Singers, and the university bands offer every student an opportunity for musical participation.

Physical Therapy Student Association (PTSA): The PTSA is a campus wide organization of students united to show support to the community and offer leadership to interested students. We encourage future PT and PTA majors to participate in this organization which will cooperate with local departments of physical therapy by sharing knowledge of the field on a professional level.

President: To serve as a medium for God through songs that provide uplifting spirits both on and off campus, to sing praises unto the Lord, and to help others find the way by being a friend to all.

Residence Halls Association:

Rotaract Club of ASU: To provide an opportunity for young men and women to enhance the knowledge and skills that will assist them in personal development, to address the physical and social needs of their communities, and to provide better relations between all people worldwide through a framework of friendship and service (sponsored by the Jonesboro Rotary Club).

Spanish Club (Latertulia): To provide opportunities in a social environment to further knowledge of Hispanic culture and language.

Student Association of Clinical Laboratory Professionals (SACLP): To promote the awareness of the clinical laboratory sciences and advance the professional development of students in clinical laboratory education.

Student Association of Radiologic and Imaging Sciences (SARIS): To promote the science of radiologic technology and worthy projects in the interest of students in the radiologic sciences.

Students of Alternative Lifestyles: To provide a friendly and supportive environment for straight, gay, lesbian and bisexual women and men of all description to meet.

Technology and Management Club: To provide both educational and social programs for the benefit of interested students. In addition to regular business meetings, the T&M Club sponsors tours of local industry, meetings on special interests, and a variety of social functions.

Theatre: Students meeting eligibility requirements may also participate in plays presented by the Department of Speech Communication and Theatre Arts and the activities of Alpha Psi Omega. Students may participate in acting, stage makeup, costuming, lighting, scene design and construction, publicity, and other activities connected with play production. The program includes five major productions during the Winter Season, numerous theatre laboratory productions, and two Summer Season productions each year.

Tribal Leaders: To guide new students through orientation process.

Tri Epsilon: To promote an open exchange of ideas to further social interaction through regular readings, discussions and sharing events for members of the university community.

United Voices Gospel Choir: To serve as a medium for God through songs that provide uplifting spirits both on and off campus, to sing praises unto the Lord, and to help others find the way by being a friend to all.

University Hall Council: To serve as a governing body for University Hall.
ASU STUDENT BRANCH OF THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS—An organization to advance the professional development of students interested in electrical engineering as a profession.

ASU STUDENT CHAPTER OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS—To provide civil engineering students the opportunity to develop a professional consciousness and provide friendly contact with the engineering profession.

BETA BETA BETA—National recognition fraternity for outstanding students in biological sciences.

BETA GAMMA SIGMA—National scholastic honorary society for business and administration.

CHI SIGMA IOTA—Promotes scholarship, research, professionalism, and excellence in counseling.

COLLEGIATE FFA—For students majoring in Vocational Agriculture.

DELTA PI EPSILON—National honorary professional graduate fraternity in business education.

DELTA TAU ALPHA—National fraternity for outstanding students in agriculture.

THE EDUCATIONAL SOCIETY FOR RESOURCE MANAGEMENT (APICS)—To promote a professional attitude among student members toward an understanding and acceptance of the science of production and inventory control.

GAMMA BETA PHI—National honorary and service organization. Its primary purposes are to encourage scholastic effort and reward academic merit; to stand for and promote worthy character and high ideals; and to foster, disseminate, and improve education through appropriate service projects.

GAMMA IOTA SIGMA—Professional collegiate insurance fraternity.

GAMMA THETA UPSILON—International honor society for students in geography

GAMMA SIGMA SIGMA—A national service sorority.

KAPPA DELTA Pi—International honor society for outstanding students in education.

KAPPA KAPPA PSI—National recognition fraternity for outstanding students in band.

KAPPA MU EPSILON—National honorary fraternity for math majors.

KAPPA TAU ALPHA—To recognize and promote scholarship in the field of journalism.

LAMBD A ALPHA EPSILON—National honorary society for law enforcement.

LAMBD A IOTA TAU—International honorary fraternity for outstanding juniors and seniors majoring in literature.

LAMBD A NU—National Honor Society in Radiologic and Imaging Sciences.

LAMBD A Pi ETA—National Communication Association for Speech Communications majors.

LAW SOCIETY OF ASU—To promote interest and knowledge in the law and/or the legal profession.

MUSIC EDUCATORS NATIONAL CONFERENCE—For students who are studying to become music teachers and desire to develop leadership in music education.

NATIONAL ART EDUCATION ASSOCIATION—For students who are studying to become art teachers.

NATIONAL ASSOCIATION OF JAZZ EDUCATORS—To bring together those students who are interested in jazz music and to provide opportunity for musical experiences.

NATIONAL BROADCASTING SOCIETY—National honor society for students in broadcasting.

NATIONAL PRESS PHOTOGRAPHERS ASSOCIATION—To provide professional experience in photojournalism.

NATIONAL SOCIETY OF BLACK ENGINEERS—To stimulate and develop student interest in engineering and applied sciences; to strive to increase the number of students studying engineering; and to work for advancement of the ethnic minority in professional industry.

NATIONAL STUDENT SPEECH, LANGUAGE AND HEARING ASSOCIATION—National organization for students in speech pathology and audiology.

OMICRON DELTA EPSILON—National honorary fraternity for students in economics.

PHI ALPHA THETA—National honorary fraternity for outstanding students in history.

PHI BETA LAMBDA—National organization for students in business.

PHI DELTA KAPPA—National professional fraternity for graduate students and professionals in the field of education.

PHI EPSILON KAPPA—Professional education fraternity to foster scientific research in the fields of health, physical, recreation, and safety education.

PHI ETA SIGMA—National scholastic honorary fraternity for freshmen.

PHI KAPPA PHI—National scholastic honorary fraternity which recognizes outstanding scholarship.

PHI MU ALPHA—National professional music fraternity.

PHI SIGMA ALPHA—National honorary fraternity for outstanding students in political science.

PI GAMMA MU—International honorary fraternity for outstanding juniors, seniors, and graduate students in the social sciences.

PI KAPPA DELTA—National honorary debate and forensics fraternity.

PI OMEGA PI—National honorary fraternity for leading students in business education.

PI SIGMA ALPH A—National honor society for outstanding students in political science.

PSI CHI—To advance the science of psychology and to encourage, stimulate, and maintain scholarship of the individual members in all fields, and especially in psychology.

PUBLIC RELATIONS STUDENT SOCIETY OF AMERICA—National organization for students in public relations.

REHABILITATION COUNSELING ASSOCIATION—To advance the profession of Rehabilitation Counseling through the establishment of professional ethics, public understanding and supportive programs, which assist all persons with disabilities to become self-sufficient and contributing members of society.

RHO EPSILON—To promote real estate professionalism through education.

SIGMA ALPHA IOTA—National professional music fraternity.

SIGMA PI SIGMA—National physics honorary society for students engaged in physics and related activities.

SIGMA THETA TAU—National honor society of nursing that recognizes superior scholarship and leadership achievement of nursing students at the baccalaureate and graduate levels. Membership is by selection and petition.

SIGMA XI—National scientific honorary fraternity for faculty members engaged in research.

SOCIETY FOR HUMAN RESOURCE MANAGEMENT—For persons interested in personnel management or labor unions. It is affiliated with the national organization which has a membership of over thirty thousand, three hundred student chapters.

SOCIETY OF MANUFACTURING ENGINEERS—To guide future engineers and provide exposure to today’s growing industry.

SOCIETY OF PROFESSIONAL JOURNALISTS—To promote, through service by students and professional journalists, the First Amendment and Freedom of Information, and to encourage more responsible media performance.

STUDENT ACTIVITIES BOARD—To provide diverse sources of entertainment and cultural activities for the student body as a whole.

STUDENT ARKANSAS EDUCATION ASSOCIATION—For all students who are planning to enter the teaching profession.

STUDENT ART EDUCATION ASSOCIATION—Local branch of Art Educators and the National Art Education Association.
patrons, houses state-of-the-art lighting, sound and rigging systems. A program of student-directed laboratory theatre productions is presented in the black box experimental theatre, which seats up to 200 in a variety of configurations. Participation in these production programs provides experience not only for drama students but also for all students of the university, who are encouraged to take part in University Theatre activities.

CULTURAL OPPORTUNITIES

The students of Arkansas State University have a rich and full opportunity for developing cultural interests. The University Lecture-Concert Series Committee brings a varied schedule of speakers and concerts, dramatic and dance productions to the campus each year.

Students with talent and abilities have an ample opportunity for development in the Theatre departmental productions and the musical organizations sponsored by the Department of Music. All eligible students, whether enrolled in those departments or not, are invited to participate.

In the city community, the Jonesboro Foundation of the Arts, the Forum, the Delta Symphony Orchestra, and Stage One Repertory Theatre offer opportunities for students in the university, both as participants and as spectators.

STUDENT ATHLETE ADVISORY ORGANIZATION—Promote the positive image of the student-athletes to the administration, faculty and student body of Arkansas State University.

STUDENT COUNCIL FOR EXCEPTIONAL CHILDREN—National organization for students in special education to promote the profession and welfare of exceptional students.

STUDENT RADIOLOGIC TECHNOLOGISTS ASSOCIATION—To promote the science of radiologic technology and worthy projects in the interest of students in the radiologic technology program.

TAU BETA SIGMA—National honorary organization to promote the existence and welfare of the university bands.

UPSILON PI EPSILON—International honor society for the computing sciences.

WOMEN IN SCIENCE—To promote women in careers in the scientific fields.

THE ALUMNI ASSOCIATION

By building partnerships that involve alumni and friends in the life and work of Arkansas State University, members become a valuable part of ASU’s success. Members are connected not only to each other but to the past, present and future of the university. With programs such as reunions, Homecoming, scholarships, Alumni Leadership Series, member discounts and the recognition of Distinguished Alumni, members stay informed, involved and committed to the ASU community. For information, just call (870) 972-2586 or click on http://alumni.astate.edu.

THE FINE ARTS CENTER ART GALLERY

The Fine Arts Center Art Gallery, operated by the Department of Art, presents a regularly changing schedule of art exhibitions. These exhibitions include the work of artists from around the nation, the work of faculty and students of Arkansas State University, and selections from a distinguished and growing permanent collection. The gallery is open to students and the public on a regular basis during the week. Arrangements can be made for group tours of the exhibitions. For a current gallery schedule, contact the Department of Art, P.O. Box 1920, State University, AR 72467 (870) 972-3050.

UNIVERSITY PUBLICATIONS

The Herald of Arkansas State University. The Herald of Arkansas State University is the official campus newspaper, published two times each week by the university and edited by an editorial board composed of advanced students of journalism. A faculty member of the Department of Journalism serves as adviser upon appointment by the dean of the College of Communications and approval of the president of the university. All students become regular subscribers upon registration.

The Indian. The university yearbook, The Indian, is published annually under the direction of an Associate Dean of Students. The Indian contains a pictorial history of the major events throughout the year. It serves as a history of the school year, reflecting student life and activity in pictorial review.

Affairs of State. A campus news publication, Affairs of State is published semi-annually and mailed to all ASU graduates whose current addresses are known.

The Literary Magazine. A publication containing the literary efforts of ASU students, The Literary Magazine is sponsored by the Department of English and Philosophy.

Voices. The magazine of ASU’s Alumni Association includes profiles and feature stories, and is published twice a year, with subscriptions available through membership in the Alumni Association.

UNIVERSITY THEATRE

The ASU Theatre presents a regular schedule of major dramatic productions each year under the direction of professionally qualified members of the theatre arts faculty. Each student generation has an opportunity to see a representative selection of the great plays of the past, as well as works by modern playwrights. All ASU Theatre productions are presented in the Fowler Center, a multi-space performing arts facility. The Fowler Center theatre, seating 344 patrons, houses state-of-the-art lighting, sound and rigging systems. A program of student-directed laboratory theatre productions is presented in the black box experimental theatre, which seats up to 200 in a variety of configurations. Participation in these production programs provides experience not only for drama students but also for all students of the university, who are encouraged to take part in University Theatre activities.
Academic Programs

DEGREE PROGRAMS AND MAJORS
Arkansas State University offers fourteen undergraduate degrees, listed below with majors available in each degree program.

Associate in Applied Science (A.A.S.)
*Automotive Service Technology
*Business Technology
Clinical Laboratory Science
**Crime Scene Investigation
*Digital Electronics Technology
Food Technology

Associate in General Studies (A.G.S.)
General Studies

Associate in Science (A.S.)
Business Information Systems
Technical and Vocational Education Technology

Associate in Applied Science in Nursing (A.A.S.N.)
Nursing

Bachelor of Arts (B.A.)
Art (emphasis in):
—Art History
—Studio Art
Chemistry
Computer Science
Criminology
Economics
English
French

Bachelor of Fine Arts (B.F.A.)
Art (emphasis in):
—Art Education
—Studio Art

Bachelor of Interdisciplinary Studies (B.S.I.S.)
General Studies

Bachelor of Music (B.M.)
Music (emphasis on):
—Instrumental Performance
—Voice Performance
—Keyboard Performance
—Composition

Bachelor of Music Education (B.M.E.)
Intrumental Music
Vocal Music

*programs offered in cooperation with ASU Technical Center, Marked Tree, Arkansas
**programs offered in cooperation with the Criminal Justice Institute of the University of Arkansas

Bachelor of Science (B.S.)
Accounting
Athletic Training
Biological Sciences (emphasis on):
—Biology
—Botany
—Environmental Biology
—Pre-professional Studies
—Zoology
Business Administration
Business Economics
Chemistry (emphasis on):
—Chemistry
—Environmental
—Pre-professional
Clinical Laboratory Science
Communication Disorders
**Computer Applications
Computer and Information Technologies
Computer Science
Digital Media and Design
Exercise Science
Finance (emphasis on):
—Banking
—Corporate Finance
—Insurance
—Real Estate
Graphic Communications
Health Promotion
International Business
Journalism (emphasis on):
—Advertising
—News-Editorial Journalism
—Photojournalism

Bachelor of Science in Agriculture (B.S.A.)
Agricultural Business (emphasis on):
Animal Science (emphasis on):
—Animal Science
—Poultry Industry Management
—Pre-Veterinary
—Agricultural Science
Plant Science (emphasis on):
—Environmental Horticulture
—Science Research

Bachelor of Science in Education (B.S.E.)
Art Education
Business Education
Early Childhood Education (Preschool-Grade 4)
Special Education Emphasis
English
French
General Sciences (emphasis on):
—Biology
—Chemistry
—Physics
—Public Relations
—Human Resource Management
—Marketing Management
—Mathematics
—Physical Education (emphasis on):
—Sports Management
—Sports Promotion
—Sports
—Social Studies
—Technical Studies

Arkansas State University
Bachelor of Science in Engineering (B.S.Engr.)
Engineering (concentration in):
—Civil Engineering
—Electrical, Computer, and Information Engineering
—Mechanical Engineering

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

Bachelor of Science in Radiologic Sciences (B.S.R.S.)
—Imaging Specialist
—Diagnostic Medical Sonography
—Nuclear Medicine
—Radiation Therapy

Bachelor of Social Work (B.S.W.)
—Social Work

***available only at designated off-campus sites

MINORS OFFERED
Arkansas State University offers 45 minors with requirements varying from 15-24 semester hours. Specific requirements for each minor are stated in the respective college sections of this bulletin. The minors offered are listed below in alphabetical order. Refer to the index for the appropriate page references of each minor offered.

Accounting 21 hours
African-American Studies 21 hours
Agricultural Business 18 hours
Agricultural Mechanics 18 hours
Agronomy 18 hours
Animal Science 18 hours
Art 21 hours
Art History 18 hours
Biology 21-22 hours
Chemistry 20 hours
Computer and Information Technologies 18 hours
Computer Science 18 hours
Criminology 18 hours
Economics 18 hours
Electronic Commerce 18 hours
English 18 hours
Engineering 22-24 hours
Entrepreneurship 18 hours
Folklore Studies 18 hours
Food Science and Technology 18 hours
French 18 hours
General Business 18 hours
Geography 18 hours
German 18 hours
Graphic Design 21 hours
History 18 hours
Horticulture 18 hours
Interdisciplinary Family Studies 24 hours
International Studies 18 hours
Journalism 18 hours
Leadership Studies 22 hours
Management 18 hours
Marketing 18 hours
Mathematics 20 hours
Medieval Studies 18 hours
Military Science 20-21 hours
Modern European Studies 18 hours
Music 22-23 hours
Philosophy 18 hours
Physics 17 hours
Political Science 18 hours
Plant Science 18 hours
Printing 18 hours
Psychology 18 hours
Radio-Television 18 hours
Real Estate and Insurance 21 hours
Sociology 18 hours
Spanish 18 hours
Speech Communication 21 hours
Statistics 20 hours
Theatre 21 hours
Women and Gender 18 hours

ARMY ROTC PROGRAM
Since 1936 the Department of the Army, in cooperation with the officials of Arkansas State University, has provided a military training program through the Army Reserve Officers Training Corps (ROTC). Completion of either the two-year or the four-year ROTC program leads to a commission as an officer in the United States Army, Army Reserve, or National Guard.

The basic course of military science (freshman and sophomore years) is offered to male and female students who are U.S. citizens.

The advanced course (junior and senior years) is available to students who meet specific requirements. For further information concerning qualifications for the advanced course, refer to the index for the Department of Military Science.

COMBINED-DEGREE PROGRAMS
ASU students who enroll in approved dental, medical, pharmacy, or law schools before receiving degrees at Arkansas State University may be eligible to transfer up to 30 credit hours from the professional school to apply toward completion of their baccalaureate degree at ASU. To qualify for a combined degree, students must meet the following requirements.
1. The last 30 credit hours immediately prior to entrance into the professional school must be completed in residence at Arkansas State University.
2. All requirements for the degree except no more than 30 transferable credit hours must be completed. The 30 transfer hours must have prior approval of the department chair.
3. A written statement of eligibility for the degree must be obtained from the registrar.

A student making application for this baccalaureate degree must submit a transcript showing successful completion of the professional degree, file an “Intent to Graduate” form, and pay the graduation fee.

PRE-PROFESSIONAL PROGRAMS
There is no specific degree awarded in the pre-professional programs. It is common practice in the pre-dental, pre-medical, pre-optometry, pre-veterinary and similar programs to work toward one of the bachelor’s degrees offered by the university. There is no one degree specified by medical or dental schools, but most students in these pre-professional programs major in chemistry, physics or biological sciences.
Pre-Law Program
Prospective pre-law students should give careful consideration to the formulation of a
definite plan for pre-law study. This should be based on the student's strengths and
weaknesses, interests, and personal objectives in studying law. In general, the pre-law
student should place primary emphasis on the acquisition of excellent methods of study,
thought, and communication rather than on a specific body of factual knowledge. These skills
can be acquired in a number of different areas, and successful law students and lawyers have
college majors in almost every conceivable field.

A prospective student interested in pre-law should select a department in which to major.
That department will have a pre-law adviser who will be as concerned with the breadth of the
student's education as with the major. One or two minors in non-related areas are also
recommended.

For information about general academic concerns, about the Law School Aptitude Test, and
about law school entrance requirements, students may consult with pre-law advisers in
the College of Business or the College of Humanities and Social Sciences.

Pre-Professional Advising Within Specific Colleges
(Refer to the index for page references of each pre-professional area offered.)

College of Agriculture
- pre-forestry
- pre-veterinary medicine

College of Sciences and Mathematics
- pre-medical
- pre-pharmacy
- pre-optometry
- pre-pharmacy
- pre-chiropractic
- pre-dental hygiene
- pre-respiratory

College of Business
- pre-law

College of Nursing and Health Professions
- pre-dental hygiene
- pre-respiratory therapy
- pre-occupational therapy
- pre-physical therapy

Students interested in obtaining further information concerning any of these programs
should contact the dean of the college in which the particular program is offered.

TECHNICAL CERTIFICATE PROGRAMS
Arkansas State University offers technical programs in which certificates of proficiency
are awarded. These programs are offered for students who wish to prepare for employment
in a minimum of one or two years and do not wish to pursue formal programs leading to
an associate or a baccalaureate degree in the areas.

A Certificate of Proficiency in business information systems training is awarded upon
completion of 30 semester hours of specified courses. The courses presented for this
certificate must include ENG 1003, ENG 1013, and a minimum of 12 semester hours of
Computer Information Technology courses.

For further information on these technical certificate programs, see the College of
Business section of this catalogue.

SPECIAL PROGRAMS
Arkansas State University offers special service programs for in-service teachers and
for others interested in college credit in addition to that which may be earned during the regular
semesters.

Summer Sessions
Two five-week and one ten-week summer sessions are scheduled each summer with
classes meeting four or five days per week. Students may earn up to a total of 14 hours of
credit for the entire summer. Courses are offered in all colleges and departments during these
sessions, with special attention given to the needs of in-service teachers.

Special Studies Courses
Special courses of study may, upon request, be organized in any college or independent
department at any level of study to meet the needs of interested groups. The middle two digits
can be used to identify the course number for such programs, which must be approved through normal university
curriculum channels, will always be in the 90 series. The letter prefix will show the department
offering the course, the first digit will indicate the level of study, and the last digit will show the
hours of credit. Credit earned in some special studies courses may not be applicable toward
a degree. A zero as the first digit in the course number will designate such non-degree-credit
courses.

COMPRESSED VIDEO NETWORK PROGRAMS
Arkansas State University operates the Compressed Video Network system to deliver
courses to off-campus locations. This system links instructors and students on campus with
students in several locations throughout Arkansas.

Weather conditions or academic schedules at the various locations will on occasion
require the videotaping of the courses delivered via the Compressed Video Network. Enrollment in these courses constitutes permission for the classes and the students in them
to be videotaped. Students who are unable to attend the classes when they are originally
conducted will view the tapes in lieu of attending the scheduled class sessions. CVN sites are
located at ASU-Jonesboro, ASU-Beebe, ASU-Heber Springs, ASU-Mt. Home, Paragould,
ASU-Newport, Black River Technical College, East Arkansas Community College, Mid-South
Community College, Mississippi County Community College, Ozarka Technical College, and
Westark Community College.

Admission standards and registration procedures for these courses will be the
same as for on-campus courses.

OFF-CAMPUS AND INDEPENDENT-STUDY-BY-MAIL COURSES
Arkansas State University operates a program in continuing education in an effort to
provide higher education study opportunities for those who wish to pursue such study but may
be unable to come to the ASU campus to attend classes. This service is rendered through
independent study-by-mail courses and off-campus classes in the area which the university
serves. Many of the courses listed in the university catalogues are available through this
program.

A maximum of 31 semester hours of independent-study-by-mail credit may be counted
toward a degree.

Students who complete at least 32 semester hours of residence credit on the Jonesboro
campus may apply any number of ASU off-campus credits toward the baccalaureate degree.

Students may not enroll for study-by-mail or off-campus classes if the credit will create
an overload situation for the semester or summer term (Refer to the index for STUDENT
ACADEMIC LOAD).

Detailed information and bulletins may be obtained by writing to Regional Programs
Office, Arkansas State University, P.O. Box 2280, State University, AR 72467.

INTERIM, SHORT, AND EXTENDED-TERM CREDIT OFFERINGS
All on-campus credit offerings scheduled for periods other than the regular semesters
or summer sessions must be approved by the department chair, the appropriate college dean,
and the vice president for academic affairs.

Interim (offered between semesters/terms), short (less than a semester/term), and
extended (more than a semester/term) credit offerings are expected to meet the same criteria
of quality instruction, qualified instructor, and number of contact hours as required for regular
on-campus credit offerings.
GRADUATE SCHOOL

Graduate study requires firm commitment to inquiry and learning and should be contemplated only by students who have demonstrated the power of independent thought and investigation. For this reason the Graduate School requires students to meet high standards and reserves the right to deny admission to those who do not meet these high standards. Regulations governing the Graduate School are designed to equal or exceed the minimum standards recommended by the Council of Graduate Schools in the United States and the Conference of Southern Graduate Schools.

Details of admission requirements, course descriptions, and degree programs are published in the Graduate Bulletin, which may be obtained from the Graduate School Office, Dean B. Ellis Library Building, room 143, or from the following address:
Graduate School
P.O. Box 60
State University, AR 72467

Graduate School Computation of Grades for Admission Purposes

Graduating seniors who are planning to apply for admission to graduate school should take note that most graduate schools recalculate GPAs based upon all courses that students have attempted during their college career. Thus, any repeated courses will have both grades counted in consideration for graduate school admission.

Seniors Taking Graduate Courses:

In exceptional cases, undergraduate students may enroll in graduate-level coursework for undergraduate or for graduate credit.

For undergraduate credit:

An undergraduate student who wishes to take a graduate course for undergraduate credit must 1) have a 3.25 undergraduate grade point average, 2) have senior standing, 3) have written consent from their adviser, the course professor, and the Graduate Dean (forms available in the Graduate Office), 4) enroll in no more than nine hours of graduate coursework for undergraduate credit.

For graduate credit:

An undergraduate student who wishes to take a graduate course for graduate credit must 1) meet the GPA requirements for admission to the Graduate School, 2) have no more than 12 hours of undergraduate work remaining to complete the bachelor's degree, 3) enroll in no more than 12 hours of graduate coursework for graduate credit and in no more than a total of 15 undergraduate and graduate hours.

Enrollment under this condition is limited to one term. Students will receive graduate credit only if a grade of "B" or higher is achieved in all graduate work and only after the requirements for the bachelor's degree have been met and all requirements for admission to the Graduate School have been met.

An exception is made for senior nursing students. See details in the College of Nursing and Health Professions section in the Graduate Bulletin.

Graduate Degrees Offered

Arkansas State University offers work leading to the following graduate degrees with major fields of emphasis as indicated:

Doctor of Philosophy

Environmental Sciences
Heritage Studies

Doctor of Education

Educational Leadership

Specialist in Community College Teaching

Emphasis Areas:

Agricultural Education
Biology
Business Administration
Business Education
Chemistry
Community College Administration
English
History
Music Education
Physical Education
Political Science
Reading
Sociology
Speech Communication and Theatre Arts
Vocational-Technical Administration

Specialist in Education

Educational Administration
Psychology and Counseling

Master of Accountancy

Master of Arts

Art
Biology
English
History
Heritage Studies
Political Science
Sociology
Speech Communication and Theatre Arts

Emphasis in Speech Communication and Emphasis in Theatre

Master of Business Administration

Master of College Student Personnel Services

Master of Communication Disorders

Master of Music

Master of Music Education

Master of Physical Therapy

Master of Public Administration

Master of Rehabilitation Counseling

Master of Science

Biology
Chemistry
Computer Science
Early Childhood Services
Exercise Science
Information Systems and eCommerce
Mathematics
Vocational-Technical Administration
The General Education Program

Statement of Mission for the General Education Program of Arkansas State University

The general education program develops a foundation and motivation for the lifelong pursuit of learning in undergraduate students at Arkansas State University by introducing them to a broad range of essential areas of knowledge that will enable them to participate in our democratic nation and in a global society.

General Education Goals for Students

1. Communicating effectively. Students should be able to communicate effectively and correctly, in writing and in speech, for a variety of purposes, using appropriate forms of discourse, organizational strategies, and vocabulary.

2. Thinking critically. Students should develop the skills necessary to digest, assimilate, and evaluate critically what they read, see and hear. They should employ rational argument and deduction routinely in their own work.

3. Using mathematics. Students should be able to use, understand and apply basic mathematical skills in practical applications.

4. Using technology. Students should be able to use appropriate technologies to locate, process and evaluate information in an effective and ethical manner.

5. Understanding global issues. Students should be aware of the social, political, economic and cultural dimensions of a diverse national and world community. They should have the intellectual and interpersonal skills needed to participate and succeed in a dynamic global society.

6. Developing a life-long appreciation of the arts and humanities. Students should develop an appreciation for the arts and humanities. They should be aware of the role of art and literature in human civilization and contemporary culture.

7. Developing a strong foundation in the social sciences. Students should be aware of the diverse systems developed by humans to manage and structure our relationships with one another. Students should prepare for the full range of public and private roles they are expected to fulfill as citizens, decision-makers and human beings in a democratic America and in a global society.

8. Using science to accomplish common goals. Students should understand how science is conducted and the criteria for scientific evidence so that they will be able to make informed decisions about the health and well-being of their communities and the natural environment. They should be aware of the ethical and political issues raised by science.

9. Providing foundations necessary to achieve health and wellness. Students should have a knowledge and appreciation of the scientific bases of physical and mental health and their contribution to overall wellness.

10. Understanding interdependence. Students should grasp how the many spheres of human knowledge are interrelated as they address problems and issues in their professional, civil, and personal lives. They should acknowledge the responsibilities of informed citizenship and the impact of their decisions and actions on others.

Assessment and Enhancements

University students have earned the freedom to make decisions about their education as well as share the responsibility for those decisions. The three-hour General Education Enhancements requirement offers students a chance to exercise this freedom and to experience this responsibility.

Because of the fundamental nature of communication and mathematics, all students will be required to undergo assessment upon completion of required courses in these areas. Students who receive satisfactory scores on both assessments will be free to choose any additional course from among those listed as enhancement courses. (See below). A student who does not receive a satisfactory score on a general education assessment of communication will be required to choose from among those courses specially designated as Communication Enhancements. Likewise, a student who does not receive a satisfactory score on a general education assessment of mathematics will be required to choose from among those courses specially designated as Mathematics Enhancements.
score on a general education assessment of mathematics will be required to choose from among those courses specially designated as Mathematics Enhancements. NOTE: Students receiving unsatisfactory scores in both areas will be required to complete a total of six hours of enhancements, rather than the standard three hours. The intent of this policy is to provide opportunities for additional development in these fundamental areas if a student’s scores indicate that he or she has not yet mastered them.

Sequence of Courses

The General Education Program is designed to be completed in the first and second years, though this will not be possible for every student. However, the Communication, Mathematics, and Critical Thinking requirements must be completed within the first 45 hours earned toward a degree. The requirements in Science are to be completed before 60 degree hours are completed, if a course listed in the category is a prerequisite for a course listed under requirements of the major. Students and advisers should check the general education requirements specified by each college for its various majors. Except where modifications are noted for specific degree programs, all baccalaureate degree candidates are required to complete the following general education curriculum.

General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Category</th>
<th>Minimum Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>6 Sem. Hrs.</td>
<td>ENG 1003, Composition I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG 1013, Composition II</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 Sem. Hrs.</td>
<td>MATH 1023, College Algebra, or MATH 1054, Precalculus Mathematics, or any higher level mathematics course for which College Algebra is a prerequisite.</td>
</tr>
<tr>
<td>Understanding Global Issues</td>
<td>3 Sem. Hrs.</td>
<td>One of the following courses: ANTH 2233, Introduction to Cultural Anthropology, GEOS 2613, Introduction to Geography, HIST 1013, World Civilization to 1660, HIST 1023, World Civilization since 1660.</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>9 Sem. Hrs.</td>
<td>Students must complete three courses from this section. At least one must be a fine arts course. At least one must be a humanities course.</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>MUS 2503, Fine Arts—Musical</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THEA 2503, Fine Arts—Theatre</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ART 2503, Fine Arts—Visual</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>ENGL 2003, Introduction to Literature of the Western World I.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG 1013, Introduction to Literature of the Western World II.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHL 1103, Introduction to Philosophy</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>9 Sem. Hrs.</td>
<td>Three of the following courses. At least one course must be selected from HIST 2763, HIST 2773, ECON 2333.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECON 2333, Principles of Macroeconomics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECON 2333, Economic Issues and Concepts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HIST 2763, The United States To 1876</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HIST 2773, The United States Since 1876</td>
</tr>
<tr>
<td></td>
<td></td>
<td>POSC 1003, Introduction to Politics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>POSC 2103, Introduction to United States Government</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSY 213, Introduction to Psychology</td>
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<tr>
<td></td>
<td></td>
<td>SOC 2203, Introduction to Sociology</td>
</tr>
</tbody>
</table>

Science .......................................................................................................................... 8

Life Sciences. Select one of the following:
Biol 1001, Biological Science and Biol 1003, Laboratory for Biological Science
Biol 1013, Biology of the Cell, and Biol 1021, Laboratory for Biology of the Cell
Biol 1033, Biology of Sex, and Biol 1001, Laboratory for Biological Science
Biol 1043, Plants and People, and Biol 1001, Laboratory for Biological Science
Biol 1063, People and the Environment, and Biol 1001, Laboratory for Biological Science
Biol 2103, Microbiology, and Biol 2101, Laboratory for Microbiology for Nursing and Allied Health

If Biol 2103 is selected, the student must also take either Zoology 2003, Human Anatomy and Physiology I or Zoology 2013, Human Anatomy and Physiology II and Zoology 2011, Laboratory for Human Anatomy and Physiology II.

Physical Sciences. Select one of the following:
Chem 1013, General Chemistry I, and Chem 1011, Laboratory for General Chemistry I
Phsic 1203, Physical Science, and Phsic 1201, Laboratory for Physical Science
Geol 1003, Environmental Geology, and Geol 1001, Laboratory for Environmental Geology
Phys 1103, Introduction to Space Science, and Phys 1101, Laboratory for Introduction to Space Science

EPhys 2034, University Physics I
EPhys 2045, General Physics I

Health and Wellness ............................................................................................................. 2

Enrichments ......................................................................................................................... 3-6

Three hours to be selected either from the courses listed above, or from the additional courses specified below. Note that students who do not achieve satisfactory scores on either the Mathematics or Communications assessment will face additional restrictions on choices in this area.

AEGC 1003, Intro to Ag Business (E)
AGRI 2243, Feeding the Planet (E)
CS 2173, Intro to Programming, AND CS 2171, Lab for Intro to Programming (E,M)
ENG 3013, Practical Writing (C,E)
ENG 3043, Technical Writing (C,E)
ENG 4700, Persuasive Writing (C,E)
HLTH 2513, Principles of Personal Health (E)
JOUR/RTV 1003, Mass Communication in Modern Society (C,E)
STAT 3233, Applied Statistics (E,M)

Additional courses as approved.

Note: (C) Satisfies communications enhancement
(E) Satisfies elective enhancement
(M) Satisfies mathematics enhancement

Other rules: Communication majors MAY NOT select JOUR/RTV 1003, Mass Communication in Modern Society, to fulfill the Enhancement Requirement.

A course may be counted in satisfaction of only one area requirement. At least one History course must be selected.

With the exception of English courses (ENG), no more than two selections may have the same prefix. A science course and its laboratory will count as a single selection.

Transfer students are expected to complete the general education requirements; however, courses completed before transfer may be used to satisfy these requirements when so determined by the registrar.

General Education Curriculum for Associate in Applied Science Degrees

<table>
<thead>
<tr>
<th>Category</th>
<th>Minimum Hours</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>6 Sem. Hrs.</td>
<td>ENG 1003, Composition I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG 1013, Composition II</td>
</tr>
</tbody>
</table>
| Natural Sciences and Mathematics| 7 Sem. Hrs.   | MATH 1023, College Algebra, or MATH 1013, College Mathematics AND one of the following:
Biol 1001, Laboratory for Biological Science and Biol 1003, Biological Science
(Students may substitute a higher level biology course and its laboratory for which Biol 1001 and Biol 1003 are prerequisites, or may substitute Biol 1013 and Biol 1021.)
Geol 1003, Environmental Geology and Geol 1001, Laboratory for Environmental Geology
Phisc 1203, Physical Science and Phsic 1201, Laboratory for Physical Science
Social Sciences ......................................................... 3
One of the following:
HIST 2763, The United States To 1876
HIST 2773, The United States Since 1876
POSC 2103, Introduction to United States Government

Computer Applications/Fundamentals ........................................... 3
One of the following:
CS 1043, Introduction to Computers OR CIT 1503, Microcomputer Applications

Total Requirements 19

General Education Curriculum for Associate in General Studies Degrees

Composition .................................................................................... 6
ENG 1003, Composition I
ENG 1013, Composition II

Natural Sciences and Mathematics .................................................. 7
MATH 1023, College Algebra OR MATH 1013, College Mathematics AND one of the following:
Biol 1001, Laboratory for Biological Science and BIOL 1003, Biological Science
Students may substitute a higher level biology course and its laboratory for which BIOL 1001 and BIOL 1003 are prerequisites, or may substitute BIOL 1013 and BIOL 1021.
GEOG 1001, Environmental Geology and GEOG 1003, Laboratory for Environmental Geology
PHSC 1203, Physical Science and PHSC 1201, Laboratory for Physical Science
CHEM 1013, General Chemistry I and CHEM 1011, Laboratory for General Chemistry I
HIST 1103, Introduction to Space Science and PHYS 1101, Laboratory for Introduction to Space Science
PHYS 2034, University Physics I
PHYS 2054, General Physics I
PHYS 2073, Fundamental Physics and PHYS 2071, Laboratory for Fundamental Physics

Arts and Humanities ........................................................................ 3
One of the following:
MUS 2503, Fine Arts-Musical
ART 2503, Fine Arts-Visual
THGA 2503, Fine Arts Theatre
ENG 2003, Introduction to Literature of the Western World I
ENG 2013, Introduction to Literature of the Western World II
PHIL 1103, Introduction to Philosophy

Social Sciences .............................................................................. 6
Two of the following:
HIST 1013, World Civilization To 1660
HIST 1023, World Civilization Since 1660
HIST 2763, The United States To 1876
HIST 2773, The United States Since 1876
POSC 2103, Introduction to American Government
PSY 2013, Introduction to Psychology
SOC 2213, Principles of Sociology
ANTH 2233, Introduction to Cultural Anthropology
GEOG 2613, Introduction to Geography
ECON 2333, Economic Issues and Concepts
ECON 2313, Principles of Macroeconomics

(Only one course in United States history may be applied toward this requirement.)

Computer Applications/Fundamentals ............................................. 3
One of the following:
CS 1043, Introduction to Computers OR CIT 1503, Microcomputer Applications

Total Requirements 35

General Education Curriculum for Associate in Science Degrees

Composition ..................................................................................... 6
ENG 1003, Composition I
ENG 1013, Composition II

Natural Sciences and Mathematics .................................................. 11
Biology Sciences (one course and its laboratory)
BIOL 1001, Laboratory for Biological Science and BIOL 1003, Biological Science
Students may substitute a higher level biology course and its laboratory for which BIOL 1001 and BIOL 1003 are prerequisites, or may substitute BIOL 1013 and BIOL 1021.

Physical Sciences (one of the following)
PHSC 1201, Laboratory for Physical Science and PHSC 1203, Physical Science
PHYS 2051, Laboratory for General Physics I and PHYS 2053, General Physics I
PHYS 2034, University Physics I
CHEM 1011, Laboratory for General Chemistry I and CHEM 1013, General Chemistry I
GEOG 1001, Environmental Geology and GEOG 1003, Laboratory for Environmental Geology

Mathematics (one course)
MATH 1023, College Algebra or MATH 1013, College Mathematics
(or any higher level mathematics course for which this is a prerequisite)

Arts and Humanities ...................................................................... 6
Two of the following:
ENG 2003, Introduction to Literature of the Western World I
ENG 2013, Introduction to Literature of the Western World II
PHIL 1103, Introduction to Philosophy

Social Sciences .............................................................................. 12
One of the following:
HIST 1013, World Civilization To 1660
HIST 1023, World Civilization Since 1660

One of the following:
HIST 2763, The United States To 1876
HIST 2773, The United States Since 1876
POSC 2103, Introduction to American Government

Two of the following (from different areas):
PSY 2013, Introduction to Psychology
SOC 2213, Principles of Sociology
SOC/ANTH 2233, Introduction to Cultural Anthropology
GEOG 2613, Introduction to Geography
ECON 2333, Economic Issues and Concepts
ECON 2313, Principles of Macroeconomics

Total Requirements 35
Colleges and Departments

The faculty and curricula of Arkansas State University are organized into eleven colleges, the graduate school, and two independent departments. All undergraduate programs are included by college, department, and major in this bulletin. Graduate School programs are described in the Graduate Bulletin.

HONORS COLLEGE

UNIVERSITY COLLEGE

COLLEGE OF AGRICULTURE

COLLEGE OF BUSINESS
  Department of Accounting and Law
  Department of Computer and Information Technology
  Department of Economics and Finance
  Department of Management and Marketing

COLLEGE OF COMMUNICATIONS
  Department of Journalism
  Department of Radio-Television
  Department of Speech Communication

COLLEGE OF EDUCATION
  ASU Childhood Services
  Center for Excellence in Education
  Department of Psychology and Counseling
  Department of Educational Leadership, Curriculum, and Special Education
  Department of Teacher Education
  Department of Health, Physical Education, and Sport Sciences
  Professional Education Programs

COLLEGE OF ENGINEERING
  Engineering
  Technology

COLLEGE OF FINE ARTS
  Department of Art
  Department of Music
  Department of Theatre

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES
  Department of Criminology, Sociology, Social Work, and Geography
  Department of English and Philosophy
  Department of History
  Department of Languages
  Department of Political Science

COLLEGE OF NURSING AND HEALTH PROFESSIONS
  Department of Health Professions
  Department of Nursing
  Department of Social Work

COLLEGE OF SCIENCES AND MATHEMATICS
  Department of Biological Sciences
  Department of Chemistry and Physics
  Department of Computer Science
  Department of Mathematics and Statistics

INDEPENDENT DEPARTMENTS
  Department of Military Science
  Center for Regional Programs
Honors College
Professor Gilbert L. Fowler, Jr., Associate Dean for the Honors College

PURPOSE
Honors aims to create students who become active, creative scholars, fully prepared to contribute their knowledge and skills to the wider world. Honors offers special opportunities for scholarship and other qualified students to develop their abilities, enhance their analytical skills and intensify their knowledge and skills in their chosen fields. Honors also serves the general student body in many other ways, including sponsoring ASU's participation in the National Student Exchange (the only participating school in Arkansas), promoting undergraduate research, creative activities, helping them prepare for national competitions, and leadership activities.

The Honors College offers Honors sections of General Education courses, independent study opportunities, and Honors seminars, which are courses that focus on a specific area, have specialized content, or treat interdisciplinary topics.

ELIGIBILITY FOR HONORS COURSES
Entering freshmen with an ACT score of 24 or above or a high school GPA of 3.50 or better may enroll in lower division Honors courses. Freshmen who do not initially qualify may enroll in lower division courses if, after completing eighteen (18) hours, they have earned a 3.25 GPA. Students transferring to Arkansas State University with fewer than eighteen (18) hours of college work must meet the above qualifications. Students transferring to Arkansas State University with eighteen (18) or more hours of work in which they have earned a 3.25 GPA may enroll in Honors courses. Transfer students who do not initially qualify may enroll in Honors work if, after completing eighteen (18) hours of work, they have earned a 3.25 GPA.

All other undergraduates may take either lower or upper division Honors courses, provided they have a 3.25 GPA in their university work. Graduate students with a 3.50 GPA in their graduate work or, if in their first semester, a 3.50 as undergraduates may enroll in upper division Honors courses. However, undergraduates will receive priority should space be limited.

Capable students who do not meet these qualifications may be admitted to Honors courses with a strong recommendation by a faculty member in the department in which they are majoring and the approval of the Honors Dean. Students who have not yet chosen a major may be admitted to Honors courses, provided they are strongly recommended by their adviser and receive approval of the Honors Dean. No student may carry more than ten (10) hours of Honors courses in any one term.

GRADUATION IN HONORS
To graduate "in Honors," students must take at least eighteen (18) hours of Honors course work. Nine or more of these hours must be upper division (junior/senior level) work. They must also have at least a 3.50 GPA. Transfer students may graduate in Honors by either meeting these requirements in full or, if entering with 36 or more hours completed, by taking fifteen (15) hours of upper division Honors work. They must also have at least a 3.50 GPA. Diplomas of those fulfilling these requirements will bear the designation "Honors." All Honors courses are indicated as such on the student's transcript.

GRADUATION IN UNIVERSITY HONORS
The program in "University Honors", while designed for University Honors Scholars, is open to other participants in Honors who apply during their sophomore year and maintain at least a 3.50 GPA. Participants in the "University Honors" program are granted exceptional academic freedom and academic privileges, including (1) the right to substitute selected upper level courses for general education requirements, (2) the right to claim selected upper level courses outside the major as Honors-calibre credit, (3) the right to take graduate courses for undergraduate credit as juniors and seniors, and (4) term-loan library privileges. Appropriate authorization forms must be completed in order to exercise each of these privileges. Forms and instructions can be obtained from The Honors College website, http://honors.astate.edu. In return, University Honors students must maintain at least a 3.50 cumulative GPA and complete at least one Honors-calibre course during the fall semester and at least one Honors-calibre course during the spring semester, totaling at least 24 credits in all (twelve or more of these hours must be upper division [junior/senior level] work) including an undergraduate thesis in their major or minor area. Please note: coursework taken during summer terms does affect overall GPA. Diplomas of those fulfilling these requirements will bear the designation "University Honors." All Honors courses are indicated as such on the student's transcript.

THE HONORS CURRICULUM
Honors courses include Honors sections of general education courses, Honors options (in which an additional component is added to an upper division course in the major or minor), Honors seminars, Honors Independent Study, and Honors Senior Thesis. Students in University Honors have additional options for earning Honors-calibre credit; they may, with appropriate approval of authorization forms, substitute selected upper level courses for general education courses, claim selected upper level courses outside the major, and take graduate courses for undergraduate credit as juniors and seniors. Application forms and further information can be obtained from The Honors College website, http://honors.astate.edu.

Lower Division Work
An Honors section of each of the following introductory courses will be offered:
Composition
EN-H 1003, Honors Composition I
EN-H 1013, Honors Composition II
Arts and Humanities
AR-H 2503, Honors Fine Arts-Visual
MU-H 2503, Honors Fine Arts-Musical
TH-H 2503, Honors Fine Arts-Theatre
EN-H 2003, Honors Introduction to Literature of the Western World
EN-H 2013, Honors Introduction to Literature of the Western World
PH-H 1003, Honors Introduction to Philosophy
Natural Sciences and Mathematics
BI-H 1001, Honors Laboratory for Biological Science
BI-H 1005, Honors Biological Science
BI-H 1013, Honors Biology of the Cell
BI-H 1021, Honors Laboratory for Biology of the Cell
CH-H 1013, Honors General Chemistry I
MA-H 2204, Honors Calculus I
Social Science
AN-H 2253, Honors Introduction to Cultural Anthropology
EC-H 2313, Honors Principles of Macroeconomics
HI-H 1013, Honors World Civilization to 1600
HI-H 1023, Honors World Civilization since 1500
HI-H 2763, Honors The United States to 1876
HI-H 2773, Honors The United States since 1876
PO-H 2103, Honors Introduction to American Government
PS-H 2513, Honors Introduction to Psychology
SO-H 2213, Honors Principles of Sociology
Other lower level courses
QM-H 2113, Honors Statistics for Decision Making
SP-H 1023, Honors Elementary Spanish II
SP-H 2013, Honors Intermediate Spanish I

Upper Division Work
Special upper division honors seminars will be offered each semester, and other regular courses may, by arrangement, be taken for Honors credit. Students should consult The Honors College office or The Honors College website (http://honors.astate.edu) for further information.
University College

Associate Professor Herman W. Strickland, Dean

University College is dedicated to the idea that all university students should pursue a program containing the elements of a liberal education, that they should encounter and become familiar with the major fields of human endeavor and achievement, that they should be aware of values and value judgments in those areas, and that they should be knowledgeable of contemporary trends and issues in our civilization.

The college emphasizes teaching excellence, the evaluative processes as both teaching and measuring devices, and student-teacher rapport. Faculty advisers are encouraged to view students as human beings rather than budding, emerging specialists. Since many students change the educational objective indicated when they first enroll, they will not be forced to designate a major, but may be encouraged to explore a variety of academic areas. Students desiring to do so will be permitted to designate, or change, a major at any time.

Students whose entrance test scores indicate that developmental work would be helpful in preparing them for successful educational careers at Arkansas State University may be required to complete appropriate courses as prerequisites for enrolling in the general education courses of the university. University credit is not awarded for the successful completion of developmental courses, and the total hours required for graduation are not reduced for participation in these courses.

University College offers the Associate in General Studies degree and the Bachelor of Science in Interdisciplinary Studies degree, the Bachelor of Science in Digital Media and Design degree and a Minor in Leadership Studies.

FIRST YEAR STUDIES

Director: Paula Bradberry; Instructors: Gloria Bridges, Barbara Doyle, Lisa Ferrell, Polly Green, Barbara Knuckles, Margaret McClain

Right Start is a component of First Year Programs that serves first-year students whose ACT composite score is 18 or below and who have need for developmental course work based on their subject area ACT scores. This comprehensive program is designed to provide those students with the needed language, reading and study skills necessary for college level work. Students enrolled in Right Start are required to take all appropriate developmental courses in English, math and reading as mandated by the Arkansas legislature during their first periods of enrollment. Right Start students must also enroll in Strategies for College Success, a course with content similar to FYE Seminars (below), but with a much stronger focus on effective study skills. Intrusive advising services are an essential part of the program and are provided by the Right Start faculty.

Courses in reading, language and study skills offered through First Year Programs are available to any ASU student who has need of such courses, although enrollment in Strategies for College Success is restricted to Right Start students only during the fall semester.

FYE SEMINARS - MAKING CONNECTIONS

FYE Seminars are an integral part of the university’s first-year experience program and are strongly recommended for all first-year students that are not required to take Strategies for College Success. These classes are designed to assist students to make a smooth transition into the university experience and to help them improve their preparation for a full-life at the university. Several different sections are offered including those that are discipline or topic-specific. Although seminars may vary in content, they all have a common core curriculum that includes the following: academic performance skills, time and other self-management skills, problem solving and understanding university policies and expectations.
The Wilson Center for Academic Advising and Learning Assistance (WAALC) is the primary home for advisement of exploratory (undecided) students at Arkansas State University. This office offers walk-in style services Monday through Friday. The Advising Center is the first stop for students who want to change their major or wish to withdraw from ASU. The Advising Center also provides services for students placed on academic probation or suspension or with any academic concern. Any student regardless of major may contact this office with general advising questions or concerns at 972-2031.

STUDENT SUPPORT SERVICES and UPWARD BOUND

Tony Thomas, Director, Upward Bound; Lesley Bauders, Director, Student Support Services

Upward Bound and Student Support Services, located on the ASU campus, report to the Office of the Vice Chancellor of Research and Academic Affairs through the University College, Student Support Services (SSS) and Upward Bound (UB) are housed in the Eugene W. Smith Center for Excellence in Education. Both programs are funded through grants from the United States Department of Education and are to provide assistance to students in college or who are planning to attend college.

Student Support Services provides a variety of services to eligible ASU students to help them be successful college students. Services include group and individual tutoring, counseling and advising, assistance with financial aid applications, career planning, workshops on study skills, time and stress management and test-taking skills, use of SSS notebook computers, use of University College computer lab and cultural and social activities. Students may be accepted into this program after acceptance at ASU and are encouraged to make application at orientation.

Upward Bound serves eligible students in grades 10-12 in targeted schools in Northeast Arkansas. The program provides activities and services that seek to ensure that participants complete high school and enroll in and be successful in college. Upward Bound accomplishes this goal through a variety of activities including: tutoring and classes on Saturdays during the academic year, a six-week intensive summer residential program that focuses on academic preparation for college; social and cultural enrichment activities; career and college planning; and a Bridge program for graduates.

Eligibility for TRIO Programs is based on student/family incomes and parent educational attainment. In addition, students with disabilities may be eligible for Student Support Services. For applications or more information about TRIO Programs including eligibility, call (970) 972-2089 or write to TRIO Programs, P.O. Box 1390, State University, AR 72467 or visit our website at http://trio.astate.edu.

ASSOCIATE IN GENERAL STUDIES DEGREE PROGRAM

Arkansas State University offers the Associate in General Studies degree through University College. This program is supported by an intensive academic advising and counseling program. The fundamental purpose of the program is to enable students at Arkansas State University to assume the responsibility for developing a personalized program of studies to meet particular career goals and/or individual needs. The flexibility of the program permits the completion of the general education curriculum and combinations of interdepartmental and intercollege selection of elective courses that may be desired by students, but would otherwise be difficult, or impossible, to obtain in other existing undergraduate degree programs.

BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES DEGREE PROGRAM

Arkansas State University offers the Bachelor of Interdisciplinary Studies degree program through University College. The program is designed to permit that segment of the student population for which the traditional degree tracks in higher education hold little or no attraction to utilize existing resources of the university in developing a personalized program of study. Through curriculum flexibility, the program attempts to provide the most challenging education possible, both to the academically gifted and to the creative student.

The Bachelor of Science in Interdisciplinary Studies (BSIS) program is an acknowledgment that other existing degree programs, as varied as they are at Arkansas State University, cannot satisfy the educational needs of all students. The Interdisciplinary Studies program provides opportunity through which students may, with the aid of the Dean of University College, determine the composition of their own degree programs. The program provides curricular opportunities, which cut across traditional subject matter (department and/or college) areas to meet the particular needs of more mature students desiring formal programs of study for professional development of a nontraditional nature. The program does not duplicate the offerings of the other colleges of the university, but may include curriculum offerings of any college. Course work must be distributed among a minimum of three areas of study approved by the Dean of University College.

Admission standards for students seeking to enroll in the Bachelor of Science in Interdisciplinary Studies are dependent upon the curriculum option selected, but are similar to those required of applicants who seek to enroll in other four-year programs of this university.

Students pursuing this degree are responsible for having on record a complete, planned program approved by the Dean of University College. Students are also responsible for complying with the general academic regulations of the university as well as all other university policies and requirements. BSIS majors must complete ENG 1003 with a grade of "C" or better before enrolling in ENG 1013 and complete ENG 1013 with a grade of "C" or better. A 2.0 cumulative grade point average will be required on all junior-senior level courses and a 2.20 average on all course work for graduation. The number of semester credit hours earned in certain types of courses, i.e., physical education activity, music ensembles, etc., will be limited to the number of credits that the area offering the course will accept toward a bachelor's degree.
Bachelor of Science in Interdisciplinary Studies

General Education Requirements:  46-49

Major Courses:  54-63

Electives:  24-12

Total 124

BACHELOR OF SCIENCE IN DIGITAL MEDIA AND DESIGN

The Bachelor of Science in Digital Media and Design is a multi-disciplinary degree featuring courses in the College of Communications and the College of Fine Arts. The program provides an opportunity for students to gain a combination of knowledge and skills in content, design and production that will allow them to compete regionally and globally.

The degree will require 124 hours for graduation, including a core of 18 hours plus 24 additional hours in other designated major courses. Students are required to take courses in Communications and in Fine Arts while having the opportunity to select elective courses reflecting their special interests. Individuals interested in the program should contact either the Department of Art or the Department of Radio-Television for additional information.

Major in Digital Media and Design

Bachelor of Science

General Education Requirements:  46-49

Major Requirements:  24-30

Design:  ART 1013, ART 2413, ART 2433, ART 3443, ART 4403, ART 4413, ART 4463

Critical Thinking:  ART 3333, JOUR 4323, PHIL 3723, RTV/JOUR 3363, RTV 4413, RTV 4423, RTV/JOUR 4073

Communications:  JOUR 3043, JOUR 3073, JOUR 3673, GCOM 1813, GCOM 4613, RTV/JOUR 1003, RTV 2034, RTV 3013, RTV 3024, RTV 3324, RTV 4353, RTV 4443, CIS 1043

Electives:  124

Leadership Studies Minor

The Minor in Leadership Studies is designed for students of all majors of the University. This minor is intended to supplement the major with studies and practice in leadership development. The goal is to prepare students for leadership roles and responsibilities on-campus and to extend those roles to career, community and family endeavors. The curriculum focuses on expanding students’ knowledge, skills and understanding of specific leadership theories, concepts, models and current leadership issues in applied settings. Students are given opportunities to develop their own philosophies and leadership styles through various media both in-and outside the classroom. Emphasis is placed on effective communication skills and practical leadership applications through internships.

Requirements:  22

Electives: (Choose 2 of the following)  6

University College (UC)

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

0003. Language Development  Designed to prepare the student for ENG 1003. Also appropriate for nontraditional students who feel a need to review basic language skills. Emphasis will be placed upon basic grammar, sentence structure, paragraphs, and short essays. (F, S, SU)

0023. Developmental Reading  Designed to enhance reading ability through emphasis on vocabulary development, comprehension improvement, inferential and critical reading skills. The course includes instruction in structural analysis, contextual analysis, denotation and connotation, main idea, supporting details, organizational patterns, making inferences, and recognizing bias. The use of textbook excerpts provides a basis for transferring and applying learned reading skills to other college courses. (F, S, SU)

0053. Critical Thinking and Learning  Designed to improve critical thinking skills. Students will be presented a framework for critically analyzing data. This framework will be applied through a variety of activities and readings from an array of disciplines. (D)
1001. Restart Seminar  Designed to provide students in academic distress a means to examine their transcript, study habits, and long-term academic goals through necessary academic advising and effective decision-making. Case studies, class discussion, and journal assignments provide an opportunity to apply new skills for consistent and long-term success. Enrollment limited to students on academic suspension or by referral from the Admissions and Credits Committee. (F,S)

1002. Introduction to Leadership Development  Designed for students who participate in student organizations and who have an interest in developing their leadership skills. Students enrolled in the course will be exposed to increased opportunities for growth in self-awareness, knowledge of structure and function of leadership roles and in skills related to leadership practices. (May be repeated for credit.)  (F)

1003. FYE Seminar-Making Connections  Designed to assist students’ transitioning from high school to college by providing them with the knowledge and skills to be successful at ASU. Academic performance skills, understanding the university’s culture, policies and expectations, self-management skills and other relevant issues are covered. Recommended for all first-year students not required to take UC 1023. (F)

1023. Strategies for College Success  Intensive instruction and application in the techniques, skills and strategies necessary for college success. Proven effective study, listening, note taking, and test taking methods are taught. Other covered areas include personal and academic responsibility, critical thinking, and university information and resources. Note: Fall classes are limited to students whose ACT composite is below 19.  (F,S,SU)

1131. Career Planning 101  Course designed to assist students with the career decision process. Assessment of student interests, exploration of majors and careers and the job search process will be covered.  (S)

1141. Academic Survival  Academic Survival is a one-hour course designed to provide students in academic distress the opportunity to take positive action toward reclaiming academic success. The course will include intensive academic advising, study skills instruction, and extensive personal motivation consultations.  (S)

3012. Seminar in Leadership Development  Designed for junior and senior level student leaders who have held or currently hold positions of significant responsibility or have successfully completed the Introduction to Leadership Development course. Students in the course will be exposed to issues and concepts relative to organizational development. Students will be expected to participate in campus leadership activities.  (S)

3051. Study Abroad  ASU students participating in approved exchange programs will register for this course. Students must apply in the Office of International Programs.  (F,S,SU)

311V. Study Abroad, Unaffiliated Programs  Holding courses for students enrolled in study abroad programs not affiliated with ASU.  (D)

480V. Special Problems in Leadership Development  Individual problems in Leadership Development arranged in conjunction with the instructor. (Must be approved by dean.) No prerequisites. Can be taken for 1, 2 or 3 hours of credit. Course offered each semester.  (D)

College of Agriculture

Professor Gregory C. Phillips, Dean
Professors Armah, Cramer, Greenwalt, Hood, W. Humphrey, Teague; Associate Professors Agnew, Baker, Kennedy, Pittcock, Shumway; Assistant Professors Awika, K. Humphrey, Widick; Instructors Fenner, Watson

MISSION STATEMENT
To prepare young men and women for entry and career advancement in the food, fiber and natural resources industry, which involves production (farming), agribusiness and value-added processing, public service and rural leadership;

To conduct problem-solving research related to crop and livestock production, natural resource management, and value-added processing in collaboration with private and other public sector entities;

To provide educational opportunities and experiences for transfer of knowledge in classrooms and adult continuing education;

All within environmentally sound and sustainable systems.

COLLEGE OF AGRICULTURE CORE COURSES

Sem. Hrs.
---
AGEC 1003, Introduction to Agricultural Business ........................................................................................................ 3
AGRI 1211, Introduction to Agribusiness ..................................................................................................................... 3
AGRI 1221, Seminar in Agriculture Information Literacy ............................................................................................. 1
AGRI 3721, Seminar in Agriculture Interpretation of Research .................................................................................. 1
AGRI 4721, Seminar in Agriculture Professional Presentations ................................................................................. 1
PSSC 1300, Introduction to Plant Science .................................................................................................................. 3
ANSC 1413, Introduction to Animal Science ................................................................................................................ 3
AGED 4633, Agricultural Law OR AGEC 4063, Agricultural Policy and Current Issues .............................................. 3

Major in Agricultural Business

Bachelor of Science in Agriculture

General Education Requirements:

Sem. Hrs.
---
AGRI 2243, Feeding the Planet ................................................................................................................................... 3
AGRI 4223, Agriculture and the Environment OR AGED (any 3 cr.) ........................................................................... 6

At least 6 credits from the following list:
---
PSSC 2813, Stats ........................................................................................................................................................... 3
AGRI 4223, Agriculture and the Environment OR AGED (any 3 cr.) ........................................................................... 6

College of Agriculture Core Courses:

Sem. Hrs.
---
(see beginning of Agriculture section) ........................................................................................................................ 22

Major Requirements:

Sem. Hrs.
---
CIT 1503, Microcomputer Applications ......................................................................................................................... 3
AGCT 2003, Principles of Accounting I ......................................................................................................................... 3
AGCT 2013, Principles of Accounting II ......................................................................................................................... 3
AGEC 4079, Agricultural Business Management .......................................................................................................... 3
ECON 2203, Principles of Microeconomics .................................................................................................................. 3
MKTG 3013, Marketing ................................................................................................................................................... 3
MGMT 3153, Organizational Behavior OR Principles of Management .................................................................................. 3
AGCT 4003, Managerial Accounting OR AGEC 4063, Financial Analysis of Agriculture ........................................... 3
AGEC 4033, Agricultural Law OR LAW 2023, Legal Environment of Business ................................................................. 3
AGEC 4063, Agricultural Policy and Current Issues ...................................................................................................... 3

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Emphasis Area:

Student may select from one of the following career specialty areas or consult an adviser and design a program to meet the student's particular career goals. **The student considering graduate school is strongly encouraged to take MATH 2143, Business Calculus or any other calculus course.**

<table>
<thead>
<tr>
<th>Agricultural Communications:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 2013, News Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3003, Feature and Magazine Article Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3023, Advertising and the Print Media</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Communications</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agricultural Finance:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGED 4053, Agricultural Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3320, Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3713, Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>Electives in AGEC, FIN, ECON, etc.</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Farm Management:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGED 3053, Commodity Futures Markets</td>
<td>3</td>
</tr>
<tr>
<td>AGED 4013, Farm Appraisal</td>
<td>3</td>
</tr>
<tr>
<td>Electives in PSSC, ANSC, AGEN, etc.</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Agricultural Marketing and Management:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 3053, Commodity Futures Markets</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 4003, International Commodity Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3043, Retailing OR AGEC 3063, Agricultural Sales and Services</td>
<td>3</td>
</tr>
<tr>
<td>Electives in AGEC, MKTG, MGMT, etc.</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

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<tr>
<th>Agricultural Economics:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3313, Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3333, Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3623, Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2143, Business Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Electives in MATH, ECON, MGMT, AGEC, etc.</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td><strong>129-132</strong></td>
</tr>
</tbody>
</table>

Major in Agricultural Education
Bachelor of Science in Agriculture

Specific General Education Requirements: 18

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1013, Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1013, Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 2003, Introduction to Literature of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 2013, Introduction to Literature of the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1203, One/Com OR PHIL 1103, intro to Philosophy, OR PHIL 1503, Logic &amp; Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023, College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1011, Lab for General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1011, Lab for General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1000, Biological Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1001, Lab for Biological Science</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR HIST 2773, The United States To OR Since 1876 OR POSC 2103, Intro to US Government</td>
<td>1</td>
</tr>
<tr>
<td>HIST 1013 OR 1023, World Civilization To OR Since 1660</td>
<td>3</td>
</tr>
<tr>
<td>PE 1020, Concepts of Fitness</td>
<td>3</td>
</tr>
<tr>
<td>MUS 2503 OR THEA 2503 OR ART 2503 (only 3 hours required for education majors)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2313, Principles of Macroeconomics OR ECON 3333 Economic Issues &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3703, Educational Psychology (listed under the major in AG Ed, counts as a Gen Ed course &amp; also in the major)</td>
<td>3</td>
</tr>
<tr>
<td>Enhancements</td>
<td>3-6</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>46-49</strong></td>
</tr>
</tbody>
</table>

AGRI 2243 (Feeding the Planet) does not count as an Enhancement or for major requirements of Agriculture majors.
AGRI 1053 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.

BSA Core-Agriculture: 22

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGED 1003, Introduction to Agriculture Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3003, Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 1613, Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>PSSC 2811, Soils</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 1211, Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 3711, Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 4721, Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AGED Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

AGED Major: 8

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 4073, Agriculture Business Management</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 3619, Nutritional Management of Domestic Animals</td>
<td>3</td>
</tr>
<tr>
<td>Agricultural Elective (Must be upper level ag course)</td>
<td>3</td>
</tr>
<tr>
<td>PSSC 2811, Soils Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

AGED Major: 16

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 1001, Laboratory for Principles of Zoology AND</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 1003, Principles of Zoology OR</td>
<td>1</td>
</tr>
<tr>
<td>BOT 1103, General Botany AND BOT 1101, Laboratory for General Botany</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1033, Laboratory for Introduction to Organic and Biochemistry AND</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1031, Laboratory for Introduction to Organic and Biochemistry</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

AGED Major: 24

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGED 1411, Introduction to Agricultural and Extension Education</td>
<td>1</td>
</tr>
<tr>
<td>SCEG 2514, Introduction to Secondary Teaching</td>
<td>4</td>
</tr>
<tr>
<td>PSY 3703, Educational Psychology (Counted as Gen Ed)</td>
<td>3</td>
</tr>
<tr>
<td>AGED 4402, Agricultural Youth Organizations</td>
<td>2</td>
</tr>
<tr>
<td>AGED 4433, Methods of Teaching Agricultural Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>VCED 4503, Foundations of Adult Education in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>AGED 1403, Basic Agricultural Mechanics</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

The following exams are required:
Praxis I - Required for admission into Teacher Education Program and for all Emphasis Areas
Praxis II - Required for graduation for the Teaching Emphasis Option only

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>106</strong></td>
</tr>
<tr>
<td>PLUS 24 from one of the emphasis areas below</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>127-130</strong></td>
</tr>
</tbody>
</table>
Emphasis: Teaching

Sem. Hrs.
TIAQ 4826, Teaching Internship in the Secondary School ................................................................. 12
EDAG 4893, Special Methods for Teaching Agricultural Education .................................................. 9
Three of the following courses: AGED 2433, Principles of Agricultural Power: Electricity and Internal Combustion Engines AGED 2453, Application of Welding Technologies to Agriculture AGED 3443, Agricultural Equipment Hydraulic Systems AGED 3453, Agricultural Structural Systems

Total 40

Emphasis: Agricultural Mechanics

Sem. Hrs.
AGED 2433, Principles of Agricultural Power: Electricity & Internal Combustion Engines ...................... 3
AGED 2453, Application of Welding Technologies to Agriculture ........................................................ 3
AGED 3443, Agricultural Equipment Hydraulic ............................................................... 3
AGED 3453, Agricultural Structural Systems .................................................................................. 3
Electives in Engineering or approved areas ..................................................................................... 3

Total 15

Emphasis: Agricultural Communications

Sem. Hrs.
JOUR 2003, News Writing ................................................................................................................. 3
JOUR 3023, Advertising Principles .................................................................................................. 3
ENG 3043, Technical Writing ........................................................................................................... 3
RTV 3023, TV Workshop for Non-Majors .......................................................................................... 3
RTV 2024, Audio Production ........................................................................................................... 3
AGRI 4201-4, Internship in Agriculture ............................................................................................ 6
Elective in Communications (JOUR 2023 or 3013 recommended) ..................................................... 3

Total 24

Emphasis: Agricultural Education

Sem. Hrs.
Sem. Hrs.
Total 44

NOTE: 1. Students with less than a 2.5 GPA required for admission to teacher education will enroll in three hours of journalism instead of Special Methods of Teaching Agriculture.
2. Students in this option will not be required to take the Praxis II exam for graduation.

Major in Animal Science
Bachelor of Science in Agriculture

Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees .............................................. 46-49

Note the specific General Education Requirements for this major in the categories listed below:

Critical Thinking:
Must select BTCH/SCOM 1203, Oral Communication as their choice in this category

Social Sciences:
Must take either ECON 2313, Principles of Macroeconomics or ECON 2333, Economic Issues and Concepts as one of their choices in this category

Science

Lifesciences:
Must select from one of the following: BIOL 2103, Microbiology, and BIOL 2101, Laboratory for Microbiology for Nursing and Allied Health OR BIOL 4014, Microbiology (Pre-Vetmajors)

In order to receive General Education credit for either of these microbiology courses, students with this major must take ZOOL 1043, Biology of Animals and ZOOL 1041 Laboratory for the Biology of Animals. (Note that the credit hours for the ZOOL courses will NOT count toward the total General Education hours.)

Physical Sciences:
Must select CHEM 1013, General Chemistry I, and CHEM 1011, Laboratory for General Chemistry I as their choice in this category.

Enhancements:
Must select ENG 3943, Technical Writing as their choice in this category. Note that the students who do not achieve satisfactory scores on the General Education Mathematics assessment will face additional restrictions on choices in this area and may not be able to account this course among their General Education Credit hours.
AGRI 2243 (Feeding the Planet) does not count as an Enhancement or for major requirements of Agriculture majors.
AGRI 1033 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.

College of Agriculture Core Courses:

Sem. Hrs.

Major Requirements:

Sem. Hrs.
CHEM 1023, Introduction to Organic and Biochemistry OR
CHEM 1025, General Chemistry II ................................................................. 3
CHEM 1031, Laboratory for Introduction to Organic and Biochemistry OR
CHEM 1033, Laboratory for General Chemistry II ......................................................... 1
BIOL 4014*, Microbiology OR
BIOL 2103, Microbiology AND
BIOL 2101, Laboratory for Microbiology ................................................................. 4
ANSC 1621, Laboratory for Introduction to Animal Science ......................................................... 1
ANSC 3631, Nutritional Management of Domestic Animals ......................................................... 3
ANSC 3633, Veterinary Anatomy and Physiology ........................................................................... 3
AGRI 2213, Genetic Improvement of Plants and Animals OR
BIOL 3313, Genetics .................................................................................................................. 3

*Required for Pre-Veterinary Emphasis

18

Emphasis Area:

Student may select from one of the following career emphasis areas but should consult an advisor and design a program to meet the student's particular career goals

Animal Science:

Sem. Hrs.
ANSC 2703, Principles of Poultry Production ................................................................................... 3
ANSC 4663, Principles of Breeding .................................................................................................. 3
ANSC 4673, Digestive Physiology and Nutrition of Animals .............................................................. 3
ANSC 4683, Theriogenology ............................................................................................................ 3
AGEC 4673, Agricultural Business Management ............................................................................. 3

15

Pre-veterinary:

Sem. Hrs.
ANSC 4673, Digestive Physiology and Nutrition of Animals .............................................................. 3
ANSC 4683, Theriogenology ............................................................................................................ 3
CHEM 3103, Organic Chemistry I ......................................................................................................... 3
CHEM 3101, Laboratory for Organic Chemistry I ............................................................................ 1
MATH 1054, Plane Trigonometry OR
MATH 1094, Precalculus .................................................................................................................. 3-4
PHYS 2024, General Physics I ......................................................................................................... 4
PHYS 2064, General Physics II ....................................................................................................... 4
CHEM 4243, Biochemistry ............................................................................................................... 3

24-25

Poultry Industry Management:

Sem. Hrs.
ANSC 2703, Principles of Poultry Production ................................................................................... 3
ANSC 3703, Poultry Production OR
ANSC 4663, Integrated Poultry Production .................................................................................... 3
AGRI 4201-4, Internship in Agriculture (Min. 2.5 GPA required) ...................................................... 3
AGEC 4673, Agricultural Business Management ............................................................................. 3

12

Food Science and Technology:

Sem. Hrs.
FDST 2203, Introduction to Food Science .......................................................................................... 3
FDST 2223, Principles of Food Processing ......................................................................................... 3
Choose two of the following: FDST 2213, Food Chemistry FDST 3203, Food Quality Assurance FDST 4213, Food and Health
ANSC 3653, Meat Science and Processing .......................................................................................... 12
### Major in Agricultural Science

#### Bachelor of Science in Agriculture

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees ........................................... 46-49

**Specific General Education Requirements:**

- Students with this major must take the following:
  - CHEM 1013, General Chemistry I
  - CHEM 1011, Laboratory for General Chemistry I
  - ECON 2313, Principles of Macroeconomics
  - AGRI 2243 (Feeding the Planet) does not count as an Enhancement for major requirements of Agriculture majors.
  - AGRI 1003 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.

**College of Agriculture Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(see beginning of Agriculture section)</td>
<td>22</td>
</tr>
</tbody>
</table>

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGED Electives</td>
<td>12</td>
</tr>
<tr>
<td>AGEC Electives</td>
<td>12</td>
</tr>
<tr>
<td>ANSC Electives</td>
<td>12</td>
</tr>
<tr>
<td>PSSC Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

**Electives**

| Course                                      | 13        |

**Total**

| 129-132 |

### Major in Plant Science

#### Bachelor of Science in Agriculture

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees ........................................... 46-49

**Specific General Education Requirements:**

- Students with this major must take the following:
  - BIOL 1003, Biological Sciences
  - CHEM 1013, General Chemistry I
  - CHEM 1011, Laboratory for General Chemistry I
  - ECON 2313, Principles of Macroeconomics
  - SCOM 1203, Oral Communication
  - ENG 3043, Technical Writing
  - If another enhancement course is required due to unsatisfactory score on the Mathematics or Communication assessments, then ENG 3043 or JOUR 2003 or BCOM 2563 must be taken as a core requirement.

**College of Agriculture Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(see beginning of Agriculture section)</td>
<td>22</td>
</tr>
</tbody>
</table>

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 2213, Genetic Improvement of Plants and Animals</td>
<td>3</td>
</tr>
<tr>
<td>BOT 1103, General Botany</td>
<td>3</td>
</tr>
<tr>
<td>BOT 1101, Laboratory for General Botany</td>
<td>1</td>
</tr>
<tr>
<td>ENT 3003, General Entomology</td>
<td>3</td>
</tr>
<tr>
<td>ENT 3051, Laboratory for General Entomology</td>
<td>1</td>
</tr>
<tr>
<td>BOT 3142, Plant Pathology</td>
<td>2</td>
</tr>
</tbody>
</table>

**Major Electives**

- AGEC 3063, Computerized Agricultural Records OR CIT 1503, Microcomputer Applications ............................... 1
- PSSC 3313, Plant Disease Management .......... 3
- PSSC 2811, Soils Laboratory ................... 1
- PSSC 1301, Laboratory for Plant Science ...... 1
- PSSC 4313, Plant Growth and Development ...... 3

**Total**

| 129-132 |

### Emphasis Area

Students may select from one of the following career specialty areas or consult an adviser and design a program to meet the student’s particular career goals.

#### Agriculture

- **Agronomy:**
  - CHEM 1033, Introduction to Organic and Biochemistry ......................................................... 3
  - CHEM 3011, Laboratory for Organic Chemistry I ................................................................. 1
  - CHEM 3113, Organic Chemistry II .......................................................... 3
  - CHEM 4243, Biochemistry .......................................................... 3
  - MATH 2204, Calculus I OR MATH 2194, Survey of Calculus OR AGRI 4233, Experimental Agricultural Statistics .................................................... 3
  - PSSC or HORT Electives or related area ..... 15

**Total**

| 25 |

#### Environmental Horticulture

- **Chemistry:**
  - CHEM 1033, Introduction to Organic and Biochemistry ......................................................... 3
  - CHEM 3011, Laboratory for Organic Chemistry I ................................................................. 1
  - HORT 3293, Landscape Plant Materials .............................................................. 3
  - HORT 2253, Fundamentals of Horticulture .............................................................. 15

**Total**

| 25 |

### Electives

- AGRI 4233, Experimental Agricultural Statistics .................................................... 6
  - PSSC or HORT Electives or related area ..... 6
  - PSSC 3323, Weeds and Weed Control ............................................................................. 3
  - PSSC 4813, Soil Fertility .................................................................................. 3
  - PSSC 4313, Plant Growth and Development .................................................................. 3

**Total**

| 111-14 |

### Minor in Agricultural Business

#### Bachelor of Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Business Electives</td>
<td>6</td>
</tr>
<tr>
<td>Agricultural Business, Upper-level courses</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total**

| 18 |

### Minor in Agricultural Mechanics

#### Bachelor of Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Mechanics Courses, Lower Level (AGED Prefix)</td>
<td>6</td>
</tr>
<tr>
<td>Agricultural Mechanics Courses, Upper Level (AGED Prefix)</td>
<td>12</td>
</tr>
</tbody>
</table>

**NOTE:** All Agricultural Mechanics courses have an AGED Prefix. Three hours of AGEN, lower or upper level, may be used to satisfy the requirements of this minor.

**Total**

| 18 |

### Minor in Agronomy

#### Bachelor of Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agronomy Electives</td>
<td>6</td>
</tr>
<tr>
<td>Agronomy, Upper-level Courses</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total**

<p>| 18 |</p>
<table>
<thead>
<tr>
<th>Minor in Animal Science</th>
<th>Sem. Hrs.</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Science Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Animal Science, Upper-level courses</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minor in Plant Science</th>
<th>Sem. Hrs.</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Science Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Plant Science, Upper-level courses</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minor in Horticulture</th>
<th>Sem. Hrs.</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horticulture Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Horticulture, Upper-level courses</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minor in Food Science and Technology</th>
<th>Sem. Hrs.</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDST 2203, Introduction to Food Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FDST 2213, Food Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FDST 2223, Principles of Food Processing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FDST 2303, Food Quality Assurance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FDST 4213, Food and Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSC 2653, Meat Science and Processing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

### Associate of Applied Science in Food Technology

The Associate of Applied Science in Food Technology provides an understanding of the selection, preservation, processing, packaging, distribution and use of safe, nutritious and wholesome foods. Students will be able to integrate and apply food principles through the use of computer, laboratory, statistical and quality assurance techniques. Communication, organizational, information acquisition and interactions skills are also built into the curriculum. The program was designed with input from representatives of the following local food industries: Riceland Foods, Inc., ConAgra Foods, Busch Agricultural Resources and Nestle USA. Input was also received from the Department of Food Science, University of Arkansas-Fayetteville. This program was designed to provide a quality curriculum that introduces students to the world of food technology and provides an educational foundation for upper division study in food science. As part of the curriculum, there is an opportunity for laboratory experiences at local food industries as well as student practicum work through student internships. Cooperation with the community agencies will support those endeavors.

### Major in Applied Science in Food Technology

#### Associate in Science

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees

AR 1003 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.

AGRI 1003 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.

### Professional Requirements:

**Sem. Hrs.**

- VOED 1533, Instructional Planning and Materials in Technical and Vocational Education: 3
- VOED 1553, Management of Technical and Vocational Programs: 3
- VOED 2523, The Two-Year College in America: 3
- VOED 2533, History and Philosophy of Technical and Vocational Education: 3
- ARTH 2763: Art and Humanities (from General Education Curriculum): 4
- HIST 2763 OR 2773, The United States To Or Since 1876: 3
- Required Support: 23

### Electives

**Sem. Hrs.**

- 9

### Total

**Sem. Hrs.**

- 69

### Associate in Science in Technical and Vocational Education

The Associate in Science degree in Technical and Vocational Education is designed as a two-year program of study for Vocational-Technical instructors who do not hold a degree. The degree program is for the purpose of enhancing the instructor’s teaching skills and his/her professional improvement and/or advancement. To be eligible for enrollment in this degree program, persons must be licensed or certified in their skill area.

### Major in Technical and Vocational Education

**Associate in Science**

- 19

**General Education Requirements:**

- ENGR 1003 and 1013, Composition I and II: 6
- MATH 1023, College Algebra: 3
- HIST 2763 OR 2773, The United States To Or Since 1876: 3
- Natural Science (from General Education Curriculum): 4
- Social Science (from General Education Curriculum): 3
- Art and Humanities (from General Education Curriculum): 2-3
- Electives (from General Education Curriculum): 1-3
- Physical Education (1 hour activity physical education): 1
- AGRS 2243 (Feeding the Planet) does not count as an Enhancement for major requirements of Agriculture majors.
- AGRI 1003 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.

### Professional Requirements:

**Sem. Hrs.**

- VOED 1503, Instructional Planning and Materials in Technical and Vocational Education: 3
- VOED 1553, Management of Technical and Vocational Programs: 3
- VOED 2523, The Two-Year College in America: 3
- VOED 2533, History and Philosophy of Technical and Vocational Education: 3
- Required Support: 24

### Technical Requirements:

**Sem. Hrs.**

- 15

The fifteen hours in the technical requirement may be awarded for substitution of professional training, preparation, or work experience in teaching area, verified by the appropriate license, diploma, certificate, transcript, letter or National Occupation Competency Testing Institute (NCTCI) score or equivalent evidence of expertise as follows:

a. One year full-time trade school (9 hours)

b. Ninety hours full-time trade instruction in program of less than one year duration (1 hour each, maximum 3)

c. Sixty hours company-sponsored short course instruction while employed (1 hour each, maximum 3)
COLLEGE OF AGRICULTURE COURSE DESCRIPTIONS

Agriculture (AGRI)

1203. Agricultural Resources and Man  Significance of agriculture as a major force in advancing civilization. The application of agricultural sciences in solving pressing world problems will be stressed. (D)

1211. Introductory Seminar in Agriculture  Introduction to issues, trends, disciplines in agriculture, organizational structure of the industry, curriculum, and career opportunities. (F, S)

2213. Genetic Improvement of Plants and Animals  Introduction to agriculturally important plant and animal traits and the methods used to incorporate these into favorable combinations. (S, F)

2243. Feeding the Planet  Emphasizes the historical background, current and future social, political, environmental or economic implications for the use of natural resources for feeding the world population. (D)

3203. Animal and Plant Metabolism  The study of biochemicals and metabolic processes and their role in the production of animals and plants for food and fiber. Prerequisites: CHEM 1013 and 1011, BIOL 1001 and 1003. (S, F)

3233. Applied Agricultural Statistics  Collection, tabulation, and analysis of agricultural data; activities of the state and federal crop reporting services. (S, F)

3711. Seminar in Agriculture: Information Literacy  Enhances the ability to utilize primary, secondary, and popular sources of agricultural science information, and to recognize their different values. Written and verbal scientific communications exercises use resume building and discussion of controversial agricultural issues. (F, S)

3721. Seminar in Agriculture: Interpretation of Research  Enhances the ability to understand and interpret primary scientific literature on agricultural science topics in fine detail. Scientific verbal and written communications skills are reinforced using major-specific materials. Prerequisite: AGRI 3711 with grade of "C" or better. Corequisite: AGRI 3233, STAT 3233, or ECON 2113. (F, S)

4201-6. Internships in Agriculture  Provides field based experience in private business/industry or public agencies which will enhance knowledge and skills needed for career advancement (approval of Internship Committee required). (S, F, SU)

4223. Agriculture and the Environment  This course will explore the complex and varied interrelationships of agriculture and the environment with the ultimate goal of identifying viable procedures to make agricultural programs more sustainable. (S, F)

4233. Experimental Agricultural Statistics  Fundamental concepts of experimental and statistical methods as applied to agricultural research. (S -even)

4243. Capstone Agriculture  Course provides opportunity to address current issues that impact agriculture, society and the world. The course is designed for the senior class student. (F, S)

4721. Seminar in Agriculture: Professional Presentations  Enhances the ability to synthesize high quality information from multiple sources into different types of written and verbal presentations as encountered in professional settings, using problem-solving exercises. Analytical skills and interactive discussions are emphasized. Prerequisite: AGRI 3721 with grade of "C" or better. (F, S)

Agricultural Business and Economics (AGEC)

1003. Introduction to Agricultural Business  Structure and organization of agricultural business. Basic economic principles and their application to agriculture. (F, S)

3003. Agricultural Marketing  Present and alternative systems of marketing farm products. The principles, functions, channels, and agencies involved are described. Emphasis is on measurement of demand, costs, and efficiencies. Prerequisite: AGEC 1003 or ECON 2313 or ECON 2323. (F, S)

3013. Computerized Agriculture Records  Selection of appropriate systems for farm records and agribusiness applications, computerized business accounting, spreadsheets and decision aids, and word processing applications for reports and communication. Prerequisite: AGEC 1003 or instructor approval. (F, S)

3023. Cooperatives  Organization, capitalization, and management of cooperative businesses. Operational practices and problems. Role of cooperative organizations in agricultural business. Prerequisite: AGEC 1003 or ECON 2313 or ECON 2323. (S -odd)

3043. Marketing Specialty Agricultural Products  Introduction to marketing high value crops, processed agricultural goods, and specialty items. Topics will include market analysis and testing, financing, pricing, and transportation. Prerequisite: AGEC 1003 or MKTG 3013. (D)

3053. Commodity Futures Markets  Function of futures markets in price discovery, price-risk transfer, and speculation. Marketing strategies for agricultural, financial, and other commodities using futures contracts and options on futures. Prerequisite: AGEC 1003 or ECON 2313 or ECON 2323. (F -odd)

3063. Agricultural Sales and Services  The history, image and economic importance of agricultural sales and consulting are emphasized; nature and functions of contemporary, professional sales and consulting; selling process, as applied to agricultural inputs, products and the food and fiber industry. Prerequisite: AGEC 1003 or ECON 2313. (F)

4013. Farm Appraisal  Factors governing the price of land, methods of land valuation; appraisals for use, sale, loan, and taxation. Prerequisite: AGEC 1003 or ECON 2313 or ECON 2323. (F)

4023. International Commodity Marketing  Development and coordination of activities related to marketing agricultural commodities in foreign markets. Emphasis given to identification and analysis of market size, location, mix, methods and changes in trading for commodities in international markets. Prerequisite: AGEC 3003, MKTG 3013, or consent of instructor. (S)

4033. Agricultural Law  Farm laws pertaining to land purchases, legal descriptions, leases, mortgages, security agreements, fences, drainage, irrigation, pollution, and quarantines. Prerequisite: AGEC 1003 or ECON 2313 or ECON 2323. (S -odd)
4043. **Land Economics**  Physical characteristics as related to land use; the economics of land use. Principles of land utilization, classification, conservation, zoning, and land-use planning. Prerequisite: AGEC 1003. (F -odd)

4053. **Agricultural Finance**  Financial elements of the farm business. Emphasis will be given to the use and sources of agricultural credit. Prerequisite: AGEC 1003 or ECON 2313 or ECON 2323. (S -even)

4063. **Financial Analysis of Agribusiness**  Study of quantitative concepts and methods used in the financial analysis of the agricultural business firm. Prerequisite: ACCT 2023 or ACCT 2013. (F, S)

4073. **Agricultural Business Management**  Principles and problems involved in acquiring, organizing, and operating successful farms, ranches and other agricultural businesses; balance of enterprises; capital requirements; emphasis on managerial philosophy, aims, and objectives of agricultural and extension education. Explanation of programs, career opportunities, and qualifications in agricultural and extension education. (F)

4083. **Agricultural Policy and Current Issues**  Economic developments in agriculture; role of the government in agriculture and policies affecting rural people are considered. Text and current information are utilized. Prerequisite: AGEC 1003 or ECON 2313 or ECON 2323. (F, S)

4191-2-3. **Special Problems in Agricultural Economics**  For students of senior standing. Approval of the instructor and dean necessary. Credit of one, two, or three hours as arranged. (S, F, SU)

**Agricultural Education (AGED) (Special course fee may apply.)**

1403. **Basic Agricultural Mechanics**  Introduction to basic wood and metal working tools and equipment used in most mechanics laboratories. Instruction focuses on safety, project design, tool and equipment use. (Special course fee: $25.00) (F, S)

1411. **Introduction to Agricultural and Extension Education**  Philosophy, aims, and objectives of agricultural and extension education. Explanation of programs, career opportunities, and qualifications in agricultural and extension education. (F)

2433. **Principles of Agricultural Power: Electricity and Internal Combustion Engines**  Agricultural power includes electricity and internal combustion engines. Electricity includes systems, devices, motors; installation and service. Internal combustion power includes small engine repair and maintenance. Prerequisite: AGED 1403. (S -odd)

2453. **Application of Welding Technologies to Agriculture**  Principles and practices of various methods of welding technology applied to agriculture. Lecture two hours, laboratory two hours per week. (F)

3433. **Agricultural Equipment Hydraulic Systems**  Study of the design, theory of operation, and maintenance of agricultural equipment hydraulic systems. Includes troubleshooting and team solutions to functional system problems. Prerequisites: MATH 1023. (S -even)

3453. **Agricultural Structural Systems**  Basic carpentry skills associated with the agricultural environment. Focus of instruction is equipment safety and use, building supplies/materials, skills development in framing, roofing, installation of windows, etc. Two hour lecture and two hour laboratory per week. Prerequisite: AGED 1403. (F -odd)

4422. **Competency Based Curriculum in Vocational Education**  Preparation of a course of study and selection of curriculum content for the competency based format. Developing objectives, organization of content and evaluation strategies. Prerequisite: Admission to Teacher Education. (F)

4433. **Methods of Teaching Agricultural Mechanics**  Methods and techniques used to teach and organize the mechanics laboratory. Teaching aids will be emphasized. Lecture two hours, laboratory two hours per week. Prerequisite: AGED 1403. (S)

4462. **Agricultural Youth Organizations**  Introduction to the history, purposes, parliamentary procedure, and membership and awards structure. Emphasis on leadership development and adviser responsibilities to agricultural youth organizations (4-H, FFA). (F)

4591-2-3. **Special Problems in Agricultural Education**  For students of senior standing. Approval of the instructor and dean necessary. Credit of one, two, or three hours as arranged. (F, S, SU)

**Animal Science (ANSC)**

1602. **Equitation**  Two-hour laboratory course in the selection and care of tack, horsemanship, etiquette, grooming, and equitation. (D)

1612. **Intermediate Western Equitation**  Refinement of the experienced rider's skills in the area of western riding. Includes retraining or conditioning older horses, and understanding equine behavior as it relates to riding and training. Four hours of lab per week. Prerequisite: ANSC 1602 or permission of instructor. (F, S)

1513. **Introduction to Animal Science**  A study of animals that provide food, fiber, and companionship to mankind, including the history and scope of animal agriculture, products produced by/from animals, reproduction, breeding and genetics, nutrients and digestion, lactation, behavior, and an overview of production systems. (F,S)

1621. **Laboratory for Introduction to Animal Science**  Students will gain hands-on work experience with managing livestock (F,S)

1622. **Intermediate Huntseat Equitation and Jumping**  Refinement of the experienced rider's skills in the area of huntseat riding and jumping. Includes flat work and jumping exercises to build skills and condition the horses and riders for jumping. Four hours of lab per week. Prerequisite: ANSC 1602 or permission of instructor. (F, S)

1510. **Equine Health and Management**  Course covers aspects of equine health, diseases, soundness, first aid, preventative maintenance, and management of horses in domestic situations. Three hours of lecture per week. (F)

2703. **Principles of Poultry Production**  Breeding, housing, feeding, incubation, brooding, disease control, and marketing applied to general farm conditions. (S)

3203. **Small Animal Care and Management**  Science and practice of raising and keeping small animals as pets or companion animals. Topics related to nutrition and feeding, training, reproduction, breeding, grooming, housing and equipment, preventative medicine, and common diseases will be covered. Prerequisites: ANSC 1613 or BIOL 1003 or 1013. (F -odd)
3603. **Elements of Meat** Survey and discussion of the red meat industry. Specific emphasis on slaughtering, inspection, carcass grading, by-products, and preservation. Lecture two hours, laboratory two hours per week. (D)

3613. **Nutritional Management of Domestic Animals** Principles of animal nutrition, composition of feedstuffs, diet formulation, and nutritional management of cattle, horses, sheep, swine, poultry, dogs and cats. Two hours lecture, two hours laboratory per week. Prerequisite: ANSC 1613. (F)

3623. **Livestock Evaluation and Selection** Evaluation of slaughter livestock to determine carcass merit and production efficiency, and selection of breeding livestock based on visual appraisal, performance and progeny records. Lecture two hours, laboratory two hours per week. Prerequisite: ANSC 1613. (S - odd)

3633. **Veterinary Anatomy and Physiology** Structure and function of the body in farm animals. Includes lectures on cardiac, renal, respiratory and muscle physiology, neurology, histology, bone development and endocrine control of the above systems. (F)

3653. **Meat Science and Processing** Study of meat science and meat processing. Properties of fresh and processed meats. Instruction in the preservation of meat and meat products, including "hands-on" experience in processed meat manufacturing, curing, and barbecuing. (S - even)

3663. **Sheep Production** Methods of management in producing sheep and handling of purebred flocks. Lecture two hours, laboratory two hours per week. Prerequisite: ANSC 3613. (S)

3693. **Artificial Insemination** Reproductive physiology as related to artificial insemination; techniques of collection, evaluation, dilution, storage of semen, insemination and application including advantages, limitation, and cost. Lecture two hours, laboratory two hours per week. (D)

3703. **Poultry Flock Management** Management of laying and brooding flocks; raising of replacements; study of all economic factors relating to efficient production and marketing. Lecture two hours, laboratory two hours per week. Prerequisite: ANSC 2703. (D)

3723. **Poultry Diseases** Common diseases of poultry; their detection, prevention, and treatment. (D)

4603. **Swine Production** Basic principles and their application in pork production—breeding, selection, nutrition, housing, equipment, and economic management. Prerequisite: ANSC 3613. (S)

4613. **Horse Production** Selection, breeding, feeding, management, marketing of horses, and equitation. Lecture two hours, laboratory two hours per week. Prerequisite: ANSC 3613 or approval of dean. (F)

4623. **Beef Cattle Production** Management practices of commercial and purebred herds. Lecture two hours, laboratory two hours per week. (S)

4633. **Diseases of Farm Animals** Prevention, treatment, and control of common diseases, including problems of hygiene and sanitation. Prerequisite: ANSC 3633. (D)

4643. **Techniques of Animal Production** Practical work with herds. (Required of all animal science majors.) Laboratory three hours twice weekly. (D)

4663. **Principles of Breeding** Basic application of genetic principles to the improvement of farm animals. (F)

4673. **Digestive Physiology and Nutrition of Domestic Animals** The role of nutrients and physiological and metabolic mechanisms involved in nutrient utilization by domestic animals. Emphasis on food producing animals, horses, dogs, cats, and catfish. Prerequisite: ANSC 1613 and junior classification. (S)

4683. **Theriogenology** Teaches the anatomy, physiology, endocrinology, and biochemistry of reproduction in farm animals. Introduces students to methods of manipulating reproduction within livestock systems. Management topics include artificial insemination, estrus synchronization, induction of parturition, embryo transfer, and reproductive disease prevention. (S)

4691. **Laboratory for Advanced Animal Nutrition** Designed to provide students with theories and skills associated with nutrition-related laboratory analyses. (D)

4693. **Integrated Poultry Management** Production principles and problem solving strategies used by vertically-integrated poultry companies. Prerequisite: ANSC 2703 or permission of instructor. (F - odd)

4712. **Advanced Animal Nutrition** Emphasis on computer-aided formulation of diets and supplements for domestic animals (livestock, poultry, pets, exotics and catfish). Class discussions will focus on industrial feed formulation problems, regulatory policies, and biotechnology in the feed industry. Prerequisite: ANSC 3613 and junior classification. (D)

4733. **Endocrinology of Farm Animals** Endocrinology system and its role in lactation, reproduction, digestion, and metabolism. (D)

4743. **Equine Nutrition** This course provides students an understanding of the principles of nutrition and their application to feeding horses. Digestive physiology, feed ingredients, feeding and grazing programs for various classes of horses, and interactions of nutrition, diseases, and environment will be discussed. Prerequisite: ANSC 1613 or permission of instructor. (D)

4781-2.3. **Special Problems in Animal Science** Each student will develop a problem in student's special interest field. This group will meet for two hours per week and report the progress on problems. (F, S, SU)

**Food Science and Technology (FDST)**

2203. **Introduction to Food Science** Introduction to modern food science and technology. Concepts of food quality, nutrition, sanitation, consumption patterns, and food laws. Overview of careers in food technology. (D)

2213. **Food Chemistry** Covers the functionality and interactions of major food components, carbohydrates, proteins, lipids and water and their impact on food quality. Two hours lecture, two hours laboratory per week. Prerequisite: CHEM 1013 or equivalent. (S)

2223. **Principles of Food Processing** Introduction to the concepts and application of food processing techniques. Concepts include processing of cereals, vegetables, fruits and animal products. Lecture two hours. Laboratory two hours per week (S, F, or SU)

3203. **Food Quality Assurance** Discussion of strategies to assure that food is safe, wholesome, and of consistent sensory quality will be discussed. Prerequisites: CHEM 1013 or BIOL 1003 and AGRI 3233. (F)
320. **Food Technology Practicum** This course provides opportunities for student internship programs at food processing companies, or for independent study programs under the direction of a faculty member. Each Practicum must be approved in advance by the supervising faculty member, college committee, and the Dean of Agriculture, including a written proposal describing the activities to be performed, location, specific learning experiences anticipated, and manner of supervision. (May be taken for a maximum of 3 hours) (D)

4213. **Food and Health** Reviews how food consumption patterns contribute to prevalence of chronic diseases in humans and strategies to develop foods with medicinal value. Effects of food processing on nutritional properties of food are investigated. Prerequisite: junior or senior classification (all majors). (F)

**Horticulture (HORT)**

2203. **Urban Landscaping and Gardening** Principles/practices of residential horticulture emphasizing minimum environmental impact. Covers landscape design/maintenance, gardening, turf, interior plants, and pest control. A course designed for non-majors. Lecture 2 hours per week, Laboratory 2 hours per week. (D)

2253. **Fundamentals of Horticulture** Growth, fruiting habits, propagation, and culture of horticultural plants. Lecture two hours, laboratory two hours per week. (S - odd)

2263. **Horticulture Technology** In-depth coverage of structures, equipment, and methodologies of modern horticultural industries. Emphasis on greenhouses, storage facilities, irrigation, nutrition, environmental control, weed, disease, and pest control. Lecture 2 hours per week, Laboratory 2 hours per week. Prerequisite: HORT 2253 or PSSC 1303 or BOT 1103. (D)

2273. **Vegetable Crops Production** Growth habits, soil and climate requirements, varietal characteristics, and pests of vegetable crops. Prerequisite: HORT 2253. (D)

3253. **Urban Forestry** The biology, selection, management, and role of plants and ecosystems used to enhance the aesthetics and function of urban environments. Planning, management and administration of urban forests. Prerequisite: BIOL 1003 or BOT 1103 or HORT 2253. (F - odd)

3263. **Pomology** Fruit production; fruiting habits; establishment and management of deciduous orchards. Lecture two hours, laboratory two hours per week. Prerequisite: HORT 2253. (D)

3273. **Turf Management** The turf industry; characteristics, adaptation, and establishment of the grasses. Prerequisites: PSSC 2813, PSSC 2811, and HORT 2253. (F - even)

3283. **Landscape Management** Principles and practices for the establishment and maintenance of residential and commercial landscapes. Lecture two hours, laboratory two hours per week. Prerequisite: BIOL 1003 or BOT 1103 or HORT 2253. (D)

3293. **Landscape Plant Materials** Trees and shrubs and their uses in landscape. Lecture two hours, laboratory two hours per week. (F)

4253. **Greenhouse Management** Construction, operational practices, and general management of greenhouses and associated structures. Lecture two hours, laboratory two hours per week. Prerequisite: HORT 2253. (S - odd)

4263. **Floriculture** Principles and practices of production of commercial flower crops in the greenhouse and field. Lecture two hours, laboratory two hours per week. Prerequisite: HORT 2253. (D)

4273. **Nursery Management** Principles and practices involved in the production, management, and marketing of field-grown and container-grown nursery plants. Lecture two hours, laboratory two hours per week. Prerequisites: HORT 2253 and HORT 4323. (S - even)

4283. **Landscape Design** Continuation of HORT 3293; the organization of outdoor spaces in relation to architecture and general environment. Lecture two hours, laboratory two hours per week. Prerequisite: HORT 3293. (D)

4291-2-3. **Special Problems in Horticulture** For students of senior standing. Approval of instructor and dean necessary. (F, S, SU)

4323. **Plant Propagation** Principles, practices, and methods employed in the propagation of plants. Prerequisite: HORT 2253. (F - odd)

**Plant and Soil Science (PSSC)**

1301. **Laboratory for Plant Science** Introduction to agronomic and horticultural concepts related to crop anatomy, growth and development, physiology, and pest identification and management. (S)

1303. **Introduction to Plant Science** Agronomic and horticultural cropping systems including crop growth and development, crop physiology, crop ecology, environmental considerations, and production/pest control. (S)

2323. **Agricultural Chemicals** Introduction to the types and uses of agricultural pesticides, fungicides, and herbicides. Application technology, calibration, safety issues, and pest management tactics are examined. Prerequisites: CHEM 1013 and CHEM 1011. (D)

2803. **Field Crops** Field crops, types and varieties. Lecture two hours, laboratory two hours per week. (D)

2813. **Soils** Origin, classification, physical and chemical properties of soil. Prerequisite: CHEM 1013 and CHEM 1011. Corequisite: PSSC 2811. (F, S)

2811. **Soils Laboratory** Corequisite: PSSC 2813. (F, S)

3313. **Plant Disease Management** Introduction to management of plant diseases. Major concepts include genetic, cultural, and biological controls as related to management of plant systems. Self study course utilizing computer technology, seminars, and laboratory exercises. Prerequisites: PSSC 1303 or BOT 1103. (S)

3323. **Weeds and Weed Control** Identification and pest management of weeds in agronomic, horticultural, and urban systems. Survey of herbicides, their chemistry, toxicology, modes of action, uses, and environmental impact. Lecture two hours and laboratory two hours per week. Prerequisites: CHEM 1013 and PSSC 1303. (F)

3333. **Plant Breeding** History of plant improvement, methods of plant breeding, and the basic application of these methods to various agronomic and horticultural crops. (F - odd)

3503. **Agriculture Spatial Technologies I** Basic understanding and utilization of data collection and assessment using global position system receivers, direct and remote sensing, and geographic information system software related to crop production and nutrient management. Prerequisite: PSSC 2813. (F)

3513. **Agriculture Spatial Technologies II** The course will concentrate on a study of the electromagnetic properties of earth objects (vegetation, soils, water); and, the principles and operations of different sensors used to measure this energy. (S)
1503. Instructional Planning and Materials in Technical and Vocational Education Provides knowledge and procedures for the development of instructional units, the preparation of lesson plans, and the selection and preparation of instructional materials necessary to teaching in a technical or vocational setting. (D)

1513. Methods of Technical and Vocational Teaching Methods of teaching are introduced and studied, with emphasis on the application of those methods in a technical or vocational school setting. (D)

1533. Student Services in Technical and Vocational Education The role of student organizations in the technical or vocational program is studied, with emphasis on the establishment and/or operation of a student organization as an integral component of a technical or vocational school program. (D)

1543. Evaluation of Learning Methods for measuring student learning, determining letter grades, and evaluating overall instructional effectiveness as applied to a technical or vocational setting are presented. (D)

1553. Management of Technical and Vocational Programs Various management tasks essential to effective technical and vocational instruction and program development are presented and studied with emphasis on their application in a technical or vocational school setting. (D)

2503. Program Development Various activities pursuant to the design, development, promotion and evaluation of technical and vocational programs are presented and studied with emphasis on their application in a technical or vocational school setting. (D)

2523. The Two-Year College in America An examination of the history, philosophy, nature, and function of the two-year college. (D)

2533. History and Philosophy of Technical and Vocational Education An examination of the history and philosophy of technical education in America with a special emphasis on Arkansas’ emerging technical colleges. (D)

2551. Experiential Learning in Technical and Vocational Education Covers professional work experience and/or technical preparation in the vocational teaching area in which the student is currently employed. Prerequisite: All requirements for the associate degree in technical and vocational education must be fulfilled prior to any award of credit for this course. (D)

2552. Experiential Learning in Technical and Vocational Education Covers professional work experience and/or technical preparation in the vocational teaching area in which the student is currently employed. Prerequisite: All requirements for the associate degree in technical and vocational education must be fulfilled prior to any award of credit for this course. (D)

2554. Experiential Learning in Technical and Vocational Education Covers professional work experience and/or technical preparation in the vocational teaching area in which the student is currently employed. Prerequisite: All requirements for the associate degree in technical and vocational education must be fulfilled prior to any award of credit for this course. (D)

2558. Experiential Learning in Technical and Vocational Education Covers professional work experience and/or technical preparation in the vocational teaching area in which the student is currently employed. Prerequisite: All requirements for the associate degree in technical and vocational education must be fulfilled prior to any award of credit for this course. (D)

4503. Foundations of Adult Education in Vocational Education Covers historical and philosophical development; comparison of vocational and non-vocational adult education; program development and evaluation, teaching methods, and issues and trends in adult vocational education programming. (S -even)

4513. Hands-On Activities and Observation Experiences for Career Orientation Opportunity to study, develop, and demonstrate the essential facets of hands-on activities according to the instructional material in career orientation. (SU)
The mission of the ASU College of Business is to provide high-quality management education to traditional and non-traditional students in the MidSouth and to provide support for businesses and communities through research, economic development activities, and consultative services.

The college strives to build challenging programs of excellence with emphasis on leadership/values, international business, technology, entrepreneurship, and economic development through an educational process that fosters analytical thinking, problem solving, communication skills, and experiential learning. Emphasis is placed on undergraduate education, while meeting the needs of the business community through select graduate degrees and professional workforce development programs.

The college is committed to enhancing professional development of faculty and staff through support of applied research, instructional development, and professional growth activities in a collegial environment. Professional development is also provided to students through student organizations, honor societies, and action-based learning.

The Mission is strengthened through ongoing review and continuous improvement of all programs and activities.

Because knowledge of technology is essential to success in business, the college provides three modern computer labs for student use. To broaden their educational experiences, students may become involved in auxiliary and outreach activities through the Transportation Management Program, Small Business Development Center, Economic Education Program, and seminars.

The College of Business is comprised of four academic departments: Accounting and Law, Economics and Finance, Computer and Information Technology; and Management and Marketing. Through these departments, the college offers 10 baccalaureate degrees and an associate degree program. The Delta Center for Economic Development is the outreach branch of the college. This center provides students with the opportunity to participate in various college initiatives to partner with the business community to enhance the economic growth and development of the region and state.

Four graduate degrees are available in the College of Business: the Master of Business Administration (MBA), the Master of Accountancy (MACC), the Master of Science in Information Systems and eCommerce (MSieC), and the Master of Science in Education (MSE), which is offered in conjunction with the College of Education. Students should refer to the Graduate Bulletin for complete details about these programs.

DEGREE REQUIREMENTS

Baccalaureate Degrees

Except for business technology majors, College of Business students who meet the prescribed degree requirements will be awarded the Bachelor of Science degree. Students majoring in business technology will be awarded the Bachelor of Science in Education degree upon completion of their degree requirements. Students following a program leading to a degree in the College of Business are required to complete a minimum of 46 semester hours of General Education requirements, as well as the specific major requirements for the Bachelor of Science degree. Considerable latitude is permitted in the selection of the additional elective courses necessary to attain the degree.

For the Bachelor of Science in Education, refer to the Teacher Education Program under the College of Education.

In addition to meeting the University Requirements for all Baccalaureate Degrees (refer to index for page reference) as presented by the university, any candidate for a degree in the College of Business must also meet the following specific requirements:

1. Maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the College of Business core courses, based on the last grade earned in each course.
2. Maintain a minimum GPA of 2.25 or a grade of at least a "C" for each required course in the major, based on last grade earned in each course.

3. Maintain an overall GPA of 2.25.

4. Complete at least 30 of the last 36 semester hours in courses offered by ASU-Jonesboro. At least 50 percent of the business credit hours required for a baccalaureate degree and 50 percent of business courses required for a major in business must be earned in the ASU-Jonesboro College of Business.

5. Take freshman and sophomore courses prior to taking junior and senior business courses. The student must earn 45 junior/senior hours. No upper-level degree credit will be given for courses taken prior to the completion of 54 semester hours of earned credit.

A College of Business student may take a double major in business. She/he may also elect a business minor, in consultation with his/her advisor. Students majoring in the College of Business may not minor in Business Administration. Students not majoring in the College of Business will receive credit for no more than 30 hours of course work offered by the College of Business.

**COMPUTER PROFICIENCY**

All candidates for baccalaureate degrees in the College of Business are required to demonstrate proficiency in basic computer skills in order to be awarded the degree. This proficiency must be satisfied prior to enrolling in any upper division College of Business courses and before enrolling in ECON 2113 — Business Statistics I.

Each student will be required to demonstrate proficiency in the use of: Microsoft Word, Excel, Powerpoint, and Access. The specific components of the proficiency requirement will be continued based upon industry expectations and academic needs.

The computer proficiency can be satisfied in one of two ways, (1) completing CIT 1503 — Microcomputer Applications (or its equivalent) with a grade of "C" or better, or (2) passing the College of Business hands-on exam to be offered each semester or administered as part of the introductory computer course offered by the Economic Development Division of the College of Business at various times throughout the year. Students will be responsible for paying all fees associated with the option they select.

All candidates for baccalaureate degrees in the College of Business are required to take the following College of Business core courses.

**College of Business Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ACCT 2003</td>
<td>Principles of Accounting I</td>
<td>6</td>
</tr>
<tr>
<td>BCOM 5258</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>+ECON 2033</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>+ECON 2323</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>FIN 3713</td>
<td>Business Finance</td>
<td>3</td>
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<tr>
<td>LAW 2023</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3153</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4813</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3013</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3013</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>+ECON 2113</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CIT 5203</td>
<td>Operations Management</td>
<td>0 or 3</td>
</tr>
<tr>
<td>SCOM 203</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>(Except International Business Studies)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Required ONLY if not taken to satisfy a part of the
  (+) Must be completed before enrolling in junior/senior level classes.

**General Education Requirements.**

**College of Business Minor in Electronic Commerce**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 435V</td>
<td>plus choice of MKTG 431V, MKTG 433V, MKTG 434V, MKTG 436V</td>
<td>3</td>
</tr>
</tbody>
</table>

**Associate Degree**

All candidates for an Associate Degree in the College of Business must satisfy the University Requirements for all Associate Degrees (refer to index for page reference), as well as the specific degree requirements listed under the CIT major.

**COURSE SEQUENCE FOR FRESHMEN AND SOPHOMORES**

The following sequence of courses will meet the requirements for enrolling in upper-level professional courses in business. Each student is encouraged to consult with his/her advisor for a plan that best meets his/her individual needs. (Refer to index for developmental courses required for students with lower ACT scores.)

**SPECIAL MAJOR NOTES:**

1. Accounting majors (a) should not take accounting courses during their freshman year and (b) should consult with his/her advisor concerning CPA exam requirements.

2. Business Education majors must take both POSC 2103 and HIST 2763 or HIST 2773.

3. International Business majors should take their foreign language during their freshman and sophomore years.

4. All Business majors must take at least one of the following:

   - ANTH 2233, Introduction to Cultural Anthropology

5. All Business majors must satisfy the computer proficiency requirement during their Freshman or Sophomore years, preferably during the freshman year.

6. All Business majors must take SCOM 1203, Oral Communication.

**ENROLLMENT IN UPPER-LEVEL COURSES IN BUSINESS**

The College of Business offers upper-level courses (junior/senior level) in a variety of professional fields of business. To be eligible to enroll in any upper-level courses, any business major must first have the proper prerequisites and satisfy the following enrollment requirements: (1) complete 54 semester hours of General Education requirements and all lower-level College of Business courses except for BCOM 2563 and LAW 2023; (2) complete MATH 2143; (3) complete and file a degree plan which is done in consultation with the student's advisor.

Students majoring in fields outside the College of Business may enroll in upper-level courses in business, provided they have the proper prerequisites, and have completed 54 semester hours of credit prior to enrollment. Students not majoring in business are limited to a maximum of 30 semester hours of College of Business courses.
Major in Accounting
Bachelor of Science

General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees .................................................. 46-49

Specific General Education Requirements:
Students must complete MATH 2143 with a “C” or better.
Students must complete either SOC 2213 or ANTH 2233

College of Business Core Courses:
(see beginning of Business section) .................................................................................................................. 39-42

Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3003</td>
<td>Intermediate Accounting I</td>
<td>6</td>
</tr>
<tr>
<td>ACCT 3013</td>
<td>Intermediate Accounting II</td>
<td>6</td>
</tr>
<tr>
<td>ACCT 3023</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4013</td>
<td>Tax Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4023</td>
<td>Advanced Accounting and International Issues</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4033</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4053</td>
<td>Auditing I</td>
<td>3</td>
</tr>
<tr>
<td>LAW 4033</td>
<td>Law of Commercial Transactions or LAW 4043, Law of Business Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Accounting Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total 27

Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>16-13</td>
</tr>
</tbody>
</table>

Total 126

Department of Accounting and Law

Associate Professor Tina Quinn, Chair; Professors Pittman, Moore; Associate Professors Dancer, Quinn; Assistant Professors Ratliff, Robertson; Instructors Carr, Lewis, Toney-McLin

ACCOUNTING PROGRAM: The accounting major prepares students for rewarding careers as industrial accountants, cost analysts, controllers, tax accountants, members of financial regulatory teams such as the IRS or banking auditors, independent auditors in CPA firms, and internal auditors. ASU accounting graduates work for manufacturing firms, in government agencies, in banking, and in not-for-profit entities.

The ASU undergraduate degree with accounting major requires 126 course hours. Many states, including Arkansas, currently require 150 hours to sit for the Certified Public Accountant (CPA) exam. The CPA license is only required by law for individuals doing audits; however, many nonauditors also pursue the CPA exam as a credential verifying the value of their education. Students interested in the CPA exam should plan an additional 24 hours of credits with their advisor, preferably by beginning work on their Masters of Accountancy (MAcc) degree. See the ASU Graduate Bulletin for details on the MAcc program.

LAW: The law courses in the department do not constitute a major. However, law courses help students better understand the role of the legal system in modern life and are highly recommended for those in any major, and particularly for students considering going on to law school after completion of their undergraduate degree.

Minor in Accounting
Bachelor of Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2333</td>
<td>Economics Issues and Concepts, or ECON 2323, Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2003</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2013</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3003</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4013</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>Junior-Senior Accounting Electives</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total 21

Department of Economics and Finance

Associate Professor Jim Washam, Chair; Professors Brown, Crawford, Dale, Kesselring, Marburger, Taylor; Associate Professors Latanich; Assistant Professors Foster, Guha, Kern

The Department of Economics and Finance offers majors in the following areas: Business Administration, Business Economics, and Economics and Finance. Each program is designed to train students in the latest techniques available in that area and equip them to perform in a professional manner in their chosen field.

BUSINESS ADMINISTRATION PROGRAM: The major in business administration provides students with a diversified rather than a specialized program in business and economics. It is designed especially for those who need a broad background of training for managing a business of their own or for students planning to enter a large business which maintains its own specialized training program. This program requires a study of every major sector of business activity, with emphasis on creative thinking which will prepare the student for today's employment as well as for meeting tomorrow's challenges.

ECONOMICS PROGRAM: The major in economics provides an excellent background for a wide variety of careers in business and government. In addition to acceptance into their management training programs, many businesses employ the economics major to forecast economic trends and to relate changes in economic activity to the individual business. Economists are employed by various governmental bodies to conduct research into all phases of the economy.

FINANCE PROGRAM: The finance major prepares students for positions in banks, investment companies, insurance firms, real estate companies, credit unions, government, and major corporations. Finance majors serve as loan officers in banks, manage individual or corporate investment portfolios, or supervise commercial credit departments. Finance majors may choose to specialize in one of four emphasis areas—banking, real estate, insurance, or corporate finance.

Major in Finance
Bachelor of Science

General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees .................................................. 46-49

Specific General Education Requirements:
Each student must complete MATH 2143 with a “C” or better.
Each student must complete either SOC 2213 or ANTH 2233

College of Business Core Courses:
(see beginning of Business section) .................................................................................................................. 39-42

Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 3763</td>
<td>Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4723</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4753</td>
<td>Capital Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 9
Emphasis Area: (Select one of the following four Emphasis Areas):

**Banking:** Sem. Hrs.
- ACCT 3003, Intermediate Accounting I ................................. 3
- ECON 3033, Money and Banking ........................................... 3
- FIN 3773, Financial Risk Management ................................. 3
- FIN 4763, Bank Management ............................................... 3
- Select One of the Following (3 semester hours) .................... 3
- ACCT 3013, Intermediate Accounting II
- FIN 4743, Managerial Finance
- IB 3113, International Financial Management & Banking
- ECON 4343, Managerial Economics
- ECON 3113, Business Statistics II
- REI 4423, Real Estate Finance

Total 15

**Real Estate:** Sem. Hrs.
- REI 3413, Real Estate Practice .............................................. 3
- REI 3513, Risk and Insurance .............................................. 3
- REI 4423, Real Estate Finance ............................................. 3
- REI 4433, Real Estate Appraising ......................................... 3
- Select One of the Following (3 semester hours) .................... 3
- NKTG 3063, Professional Selling and Sales Management
- REI 4443, Real Estate Appraising and Analysis of Income Property
- ACCT 4013, Tax Accounting I
- REI 4593, Special Problems in Real Estate
- REI 4603, Internship in Real Estate and Insurance

Total 15

**Insurance:** Sem. Hrs.
- REI 3513, Risk and Insurance .............................................. 3
- REI 3413, Real Estate Practice .............................................. 3
- REI 4513, Property and Liability Insurance ........................ 3
- REI 4543, Life Insurance ..................................................... 3
- REI 4593, Special Problems in Real Estate OR
- REI 4603, Internship in Real Estate and Insurance ............... 3

Total 15

**Corporate Finance:** Sem. Hrs.
- ACCT 4003, Managerial Accounting, OR
- ACCT 3023, Cost Accounting; OR
- ACCT 3003, Intermediate Accounting I ............................... 3
- FIN 4743, Managerial Finance ............................................ 3
- Select One of the Following (3 semester hours) .................... 3
- ACCT 4013, Tax Accounting I
- ECON 4343, Managerial Economics
- ECON 3033, Managerial Accounting II
- ECON 3323, Money and Banking
- FIN 3773, Financial Risk Management
- FIN 4763, Bank Management
- FIN 3813, International Financial Management and Banking
- IB 3103, International Trade
- ECON 3113, Business Statistics II
- REI 3513, Risk and Insurance
- REI 4423, Real Estate Finance

Total 15

**Electives:** Sem. Hrs.
- 19-16

Total 126

Minor in Real Estate and Insurance

Sem. Hrs.
- ACCT 2003, Fundamental Accounting Concepts, OR 3
- ACCT 2113, Principles of Accounting II ............................. 3
- LAW 2023, Legal Environment of Business ...................... 3
- ECON 2333, Economic Issues and Concepts, OR 3
- ECON 2333, Principles of Microeconomics, OR 3
- Junior-Senior Real Estate and Insurance Electives .............. 12

Total 21

Bachelor of Science

General Education Requirements:

Refer to Index for General Education Curriculum for Baccalaureate Degrees ............................................. 6-49

Specific General Education Requirements:
- Each student must complete MATH 2143 with a "C" or better.
- Each student must complete either SOC 2213 or ANTH 2233

College of Business Core Courses:

Sem. Hrs.
- (Use beginning of Business section) ................................. 36-42

Major Requirements:

Sem. Hrs.
- Junior-Senior Accounting Elective ...................................... 3
- Junior-Senior Economics Electives ..................................... 9

MUST INCLUDE AT LEAST ONE OF THE FOLLOWING COURSES:
ECON 3343, Comparative Economic Systems
ECON 4353, Economic Development
IB 4103, International Trade
Junior-Senior Management or Marketing Elective ................... 3
Junior-Senior Finance Electives FROM THE FOLLOWING COURSES: 3
FIN 4723, Investments
FIN 4743, Managerial Finance
FIN 4753, Capital Management
IB 3113, International Financial Management and Banking
Junior-Senior Major Electives—ONE COURSE EACH FROM TWO OF THE FOLLOWING AREAS: 6
Quantitative Management (QM)
Computer Information Technology (CIT)
Real Estate and Insurance (REI)

Total 24

Electives:

Sem. Hrs.
- 2-11

Total 126

Major in Business Economics

Bachelor of Science

General Education Requirements:

Refer to Index for General Education Curriculum for Baccalaureate Degrees ............................................. 46-49

Specific General Education Requirements:
- Students must complete MATH 2143 with a "C" or better.
- Students must complete either SOC 2213 or ANTH 2233
### College of Business Core Courses:

(see beginning of Business section)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>39-42</td>
</tr>
</tbody>
</table>

### Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON3133, Microeconomic Analysis</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON3233, Money and Banking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON3363, Macroeconomic Analysis</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON4313, History of Economic Thought</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Junior-Senior Electives:

MUST INCLUDE ONE COURSE EACH FROM THE FOLLOWING GROUPS:

**International:** (Select one of the following)

- ECON4103, International Trade, OR ECON4353, Economic Development, OR ECON3243, Comparative Economic Systems, OR ECON4683, Special Problems in Economics - 3
  - ECON4353, Economic Development, OR ECON4683, Special Problems in Economics - 3

**Public Policy and Business:** (Select one of the following)

- ECON4323, Policy Analysis, OR ECON4363, Global Environmental Policies, OR ECON4333, Government Regulation of Business, OR ECON3223 Money and Banking, OR ECON4683, Special Problems in Economics - 3
  - ECON4333, Government Regulation of Business, OR ECON4683, Special Problems in Economics - 3

**Theory of the Firm:** (Select one of the following)

- ECON4343, Managerial Economics, OR ECON4313, History of Economic Thought, OR ECON3363, Labor Economics, OR ECON4683, Special problems in Economics - 3
  - ECON4313, History of Economic Thought, OR ECON4683, Special problems in Economics - 3

| Total | 24 |

### Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN3713, Business Finance</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total | 19-16 |

| Total | 126 |

### Major in Economics Bachelor of Arts

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees - 46-49

**Language Requirement:**

- Foreign Language (refer to index for page reference) - 0-12

### Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT3013, Management Information Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON2313, Principles of Macroeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON2353, Principles of Microeconomics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON3313, Microeconomic Analysis</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON3233, Money and Banking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON3363, Macroeconomic Analysis</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON4313, History of Economic Thought</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Economics Electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Political Science/Economics</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Sociology Elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total | 39-42 |

* Required ONLY if not taken to satisfy a part of the General Education Requirements

### Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>39-42</td>
</tr>
</tbody>
</table>

| Total | 124 |

### Minor in General Business Bachelor of Science

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees - 46-49

(Must complete Math 2143, Business Calculus with "C" or better)

(Must complete ANTH2253, Anthropology, or SOC2213, Sociology)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT2033, Fundamental Accounting Concepts, OR ACCT2013, Principles of Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>LAW2033, Legal Environment of Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON2323, Economic Issues and Concepts, OR ECON2333, Economic Analysis</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>FIN3713, Business Finance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGMT3133, Organizational Behavior</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MKTG3133, Marketing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Junior-Senior College of Business Elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total | 18-21 |

* Required ONLY if not taken to satisfy general education requirements.

### Department of Computer and Information Technology

Associate Professor John Seydel, Chair; Professors Replige, Ruby; Associate Professors Jones, Moeeni, Segall, Zhang; Assistant Professors Fish, Syamil; Senior Lecturer Torres; Instructors Cao; Adjunct Instructor McGinnis, Williams; Adjunct Professor Corder

The Department of Computer and Information Technology offers the undergraduate curricula in Computer and Information Technology, the undergraduate and graduate curricula in Business Technology, and the graduate curriculum in Information Systems and ECommerce.

Areas of study that have been or will be incorporated by the CIT Department include, but are not limited to: business technology, network and telecommunications management, enterprise resource planning, end-user computing, data management (including database management, data mining, and data warehousing), software development (including programming languages and systems analysis/development), web interface development, e-commerce, project management, supply chain technologies, simulation modeling, information technology (IT) planning and strategy, and related areas.

**BUSINESS TECHNOLOGY PROGRAM:** Business Technology is a program of study designed to prepare teachers of business subjects for the secondary schools. Business subjects taught in the secondary school are generally designed to provide initial job entrance for high school graduates or to provide high school graduates with those general economic competencies they will need to take their places in the adult world. Emphasis is given, through this department and the College of Education, to the ways in which this information can be most effectively imparted. For satisfactory completion of the degree program within this department, a student must fulfill all applicable requirements as established by the university, the College of Business, the College of Education, and this department. Vocational certification is available. The department is approved by the State of Arkansas for teacher training. Graduates with this major are qualified to teach vocational business office education at the secondary and post-secondary levels.

The structure of the new department will make it possible to exploit the existing faculty's distinctive competencies in education/training, networking, automated identification and data capture (e.g., radio frequency identification, RFID), and data mining.

### Major in Computer and Information Technology Bachelor of Science

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees - 46-49

(Must complete Math 2143, Business Calculus with "C" or better)

(Must complete ANTH2253, Anthropology or SOC2213, Sociology)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>36-42</td>
</tr>
</tbody>
</table>

### College of Business Core Courses:

(see beginning of Business section)
Major Requirements (Grade of "C" or better required):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 2033</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2523</td>
<td>Telecommunications Essentials</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3033</td>
<td>Advanced Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3403</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3413</td>
<td>Advanced Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3603</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3623</td>
<td>LAN Administration</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4103</td>
<td>Advanced LAN Administration</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4453</td>
<td>Technologies for Global E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4653</td>
<td>Automatic Data Capture</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4853</td>
<td>IT Project Management</td>
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Electives:

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>126</td>
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</tbody>
</table>

Minor in Computer and Information Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CIT 2xx3/CS 2xx3</td>
<td>Programming Course</td>
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</tr>
<tr>
<td>CIT 3453</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3813</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2523</td>
<td>Telecommunications Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3603</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3623</td>
<td>LAN Administration</td>
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<td></td>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

Associate of Science

Major in Computer and Information Technology

General Education Requirements:

Refer to index for General Education Curriculum for Associate in Science

**Specific General Education Requirements**

- ECON 2313 - Principles of Microeconomics
- ANTH 2253 - Introduction to Cultural Anthropology

Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 1500</td>
<td>Microcomputer Applications (see note below)</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2033</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3453</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3813</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2523</td>
<td>Telecommunications and Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>MIS/QM/CS, Electives (excluding CS 1043)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ACCT 2003</td>
<td>Principles of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1203</td>
<td>Oral Communications DR</td>
<td>3</td>
</tr>
<tr>
<td>BCOM 2653</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>27</td>
</tr>
</tbody>
</table>

(Recommended: CIT 1500 requirement can be satisfied by successful completion of a similar course or by passing the College of Business computer proficiency exam)

Major in Business Technology

Bachelor of Science in Education

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees</td>
<td>46-49</td>
</tr>
</tbody>
</table>

Specific General Education Requirements:

Students with this major must take the following:

- HIST 2763 or 2773, The United States To or Since 1876, as one of the Social Sciences options
- POSC 2103, Introduction to United States Government, as one of the Social Sciences options
- MATH 1123, College Algebra
- PSY 2013, Introduction to Psychology, as one of the Social Sciences options
- SOC 2213, Principles of Sociology

College of Business Core Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(see beginning of Business section)</td>
<td>39-42</td>
</tr>
</tbody>
</table>

Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 2543</td>
<td>Keyboarding for Professionals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3533</td>
<td>Integrated Software</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3813</td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4533</td>
<td>Word Processing II</td>
<td>3</td>
</tr>
<tr>
<td>BUED 4503</td>
<td>Business Technology Methods</td>
<td>3</td>
</tr>
<tr>
<td>BUED 4513</td>
<td>Directed Field Experiences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

Students may elect to take the following endorsement:*

- Computer Technology - 15 semester hours
- Computer Programming - 3 hours
- Computer Elective - 3 hours
- Computer Applications - 9 semester hours
*All courses to be approved by advisor.

Professional Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>* PSY 3703</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>** SE 3643</td>
<td>The Exceptional Student in the Regular Classroom</td>
<td>3</td>
</tr>
<tr>
<td>** SED 2514</td>
<td>Introduction to Secondary Teaching</td>
<td>4</td>
</tr>
<tr>
<td>** SED 3515</td>
<td>Performance-based Instruction, Design Junior year</td>
<td>4</td>
</tr>
<tr>
<td>** EDBU 4533</td>
<td>Methods and Materials in Teaching of Business Technology</td>
<td>5</td>
</tr>
<tr>
<td>** SED 4713</td>
<td>Educational Measurement with Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>** TIBU 4826</td>
<td>Student Teaching in the Secondary School</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>33</td>
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</tbody>
</table>

* See Bachelor of Science in Education Degree — College of Education
** Prerequisite: Admission into the Teacher Education Program

Additional General Requirements for Teacher Education:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 2513</td>
<td>Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>PE Elective</td>
<td></td>
<td>1</td>
</tr>
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<td></td>
<td>Total</td>
<td>4</td>
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</tbody>
</table>

Certificate in Business Information Systems (BIS)

The BIS program is intended to deliver training that provides foundation working knowledge in information technology. The resulting certificate is independent of any degree program and can be used either to enhance whatever degree is being pursued by the student or to demonstrate IT accomplishments of the non-degree-seeking student. For the latter, the BIS certificate incorporates a basic communications component, a Business foundation component, and a strong basic IT component.

Requirements:

**Communications component**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1003</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1013</td>
<td>Composition II</td>
<td>1</td>
</tr>
</tbody>
</table>

**Business knowledge component**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2003</td>
<td>Principles of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Business Electives</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
Department of Management and Marketing

Professor Len Frey, Chair; Professor Gail Hudson, Interim Chair; Professors Ford, Nonis; Associate Professors Bevill, Hester, Roach; Assistant Professors Horsley, Horner, Philhouns, Studdard; Instructors Fenner, Relyea, Valentino.

The Department of Management and Marketing offers a curriculum designed to provide professional training as well as to develop the competence of students seeking careers within business enterprises. Business executives have taken on increasing responsibilities during recent years due to a growing realization that the employees of their firms and the markets they serve have become more complex and demanding. The five majors within the department offer positive programs of learning designed to contribute to the students’ advancement in the business world.

MANAGEMENT PROGRAM: The decisions of management in today’s business are recognized as having broad implications extending beyond the individual firm. In recognition of this, the major in management offers preparation necessary for future managers, with attention being given to all aspects of decision making. Elective concentration may be developed in Human Resource Management. The flexibility of the program allows the student and his or her adviser to build a program based on realistic educational objectives.

MARKETING PROGRAM: Marketing is the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives. All types of organizations perform marketing activities to facilitate exchanges. Businesses as well as nonprofit organizations such as universities, charitable organizations, community theatres and hospitals perform marketing activities. The major in marketing provides education and training for those interested in planning and implementing successful marketing strategies. The student with energy, ability, and the competitive urge will discover that this major will open many opportunities to serve the public as well as receive material reward. Elective concentration may be developed to emphasize Marketing Management or Logistics (transportation and distribution) functions.

INTERNATIONAL BUSINESS PROGRAM: The major in International Business permits students to prepare for managerial careers in international business. It is interdisciplinary in nature and emphasizes the development of language skills as well as an understanding of the sociocultural, political, managerial, marketing, and economic understanding of the international environment.

Major in Management
Bachelor of Science

General Education Requirements:
Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees ................................................................. 46-49

Specific General Education Requirements:
Sem. Hrs.

Students must complete MATH 2143 with a "C" or better.
Students must complete either SOC 2213 or ANTH 2233

College of Business Core Courses:
Sem. Hrs.

(see beginning of Business section) ........................................................................................................................ 39-42

Major Requirements:
Sem. Hrs.

MKTG 3023, Applied Research .............................................. 3
MGMT 3123, Principles of Management ................................ 3
MGMT 3143, Human Resource Management ....................... 3
MGMT 3163, Leadership ...................................................... 3
MGMT 4123, International Management ............................... 3
MGMT 4163, Small Business Management ......................... 3
SELECT SIX (6) SEMESTER HOURS FROM THE FOLLOWING ELECTIVES ................................................................. 18

Major Requirements listed above.

Free Electives:
Sem. Hrs.

Total 126

Minor in Management
Sem. Hrs.

ACCT 2023, Fundamental Accounting Concepts, OR .......... 3
ACCT 2003, Principles of Accounting I ............................... 3
ECON 2323, Principles of Microeconomics, OR; ................. 3
ECON 3333, Economic Issues and Concepts ..................... 3
MGMT 3133, Organizational Behavior ................................ 3
SELECT THREE OF THE FOLLOWING: .............................. 9
MGMT 3143, Human Resource Management .................... 3
MGMT 3163, Labor Relations and Collective Bargaining ...... 3
MGMT 3163, Labor Relations and Collective Bargaining ...... 3

Total 18
## Major in Marketing

**Bachelor of Science**

### General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
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<td>46-49</td>
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</tbody>
</table>

### Specific General Education Requirements:
Each student must complete MATH 2143 with a "C" or better.
Each student must complete either SOC 2213 or ANTH 2223

### College of Business Core Courses:
(see beginning of Business section)

<table>
<thead>
<tr>
<th>College of Business Core Courses</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
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<td>39-42</td>
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### Major Requirements:

<table>
<thead>
<tr>
<th>Major Requirements</th>
<th>Sem. Hrs.</th>
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</tbody>
</table>

### Emphasis Area: (Select one of the following emphasis areas)

<table>
<thead>
<tr>
<th>Emphasis Area: (Select one of the following emphasis areas)</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Marketing Management:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 4113, International Marketing</td>
</tr>
<tr>
<td>Select six (6) semester hours from the following course list. At least one (1) course must be from the first nine (9) courses listed</td>
</tr>
<tr>
<td>MKTG 3043, Retailing</td>
</tr>
<tr>
<td>MGT 3063, Transportation</td>
</tr>
<tr>
<td>MGT 3093, Professional Selling and Sales Management</td>
</tr>
<tr>
<td>MGT 4013, Services and Non-Profit Marketing</td>
</tr>
<tr>
<td>MGT 4043, Consumer Behavior</td>
</tr>
<tr>
<td>MGT 4053, Electronic Marketing</td>
</tr>
<tr>
<td>MGT 4113, International Marketing</td>
</tr>
<tr>
<td>MGT 4223, Marketing Management</td>
</tr>
<tr>
<td>MGT 4283, Marketing Internship</td>
</tr>
<tr>
<td>ACCT 4303, Managerial Accounting</td>
</tr>
<tr>
<td>BCOM 3573, Managerial Communication</td>
</tr>
<tr>
<td>ECON 4333, Government Regulation of Business</td>
</tr>
<tr>
<td>ECON 4343, Managerial Economics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Logistics:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 3063, Transportation</td>
</tr>
<tr>
<td>MGT 4113, International Marketing</td>
</tr>
<tr>
<td>Select three (3) semester hours from the following course list</td>
</tr>
<tr>
<td>MGT 3093, Professional Selling and Sales Management</td>
</tr>
<tr>
<td>MGT 4063, Electronic Marketing</td>
</tr>
<tr>
<td>MGT 4093, Carrier Management</td>
</tr>
<tr>
<td>MGT 4273, Transportation Internship</td>
</tr>
<tr>
<td>ACCT 4003, Managerial Accounting</td>
</tr>
<tr>
<td>BCOM 3573, Managerial Communication</td>
</tr>
<tr>
<td>MGMT 4123, International Management</td>
</tr>
<tr>
<td>ECON 4333, Government Regulation of Business</td>
</tr>
<tr>
<td>ECON 4343, Managerial Economics</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Free Electives:</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Free Electives:</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td></td>
<td>19-16</td>
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<tr>
<td>Total</td>
<td>126</td>
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</table>

## Minor in Marketing

**Sem. Hrs.**

<table>
<thead>
<tr>
<th>Minor in Marketing</th>
<th>18</th>
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</table>

### General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>39-42</td>
</tr>
</tbody>
</table>

| Specific General Education Requirements:
Students must complete MATH 2143 with a "C" or better.
Students must complete either SOC 2213 or ANTH 2223

<table>
<thead>
<tr>
<th>Language Requirement:</th>
</tr>
</thead>
<tbody>
<tr>
<td>French, German, or Spanish</td>
</tr>
<tr>
<td>Includes two elementary and two intermediate courses in a language and the corresponding course for that language from the following:</td>
</tr>
<tr>
<td>FR 3003, French Conversation</td>
</tr>
<tr>
<td>GER 3183, German Conversation</td>
</tr>
<tr>
<td>SPAN 3913, Spanish for International Business</td>
</tr>
</tbody>
</table>
| Students have the option of taking a placement test for waiver of up to 12 hours of this requirement. All students must take the commercial or conversational foreign language course in the language they select to meet the foreign language requirement.

<table>
<thead>
<tr>
<th>College of Business Core Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(see beginning of Business section)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>College of Business Core Courses:</th>
<th>Sem. Hrs.</th>
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<td>36-39</td>
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</table>

### Major Requirements:

<table>
<thead>
<tr>
<th>Major Requirements</th>
<th>Sem. Hrs.</th>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Logistics:</th>
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</thead>
<tbody>
<tr>
<td>MGT 3063, Transportation</td>
</tr>
<tr>
<td>MGT 4113, International Marketing</td>
</tr>
<tr>
<td>Select three (3) semester hours from the following course list</td>
</tr>
<tr>
<td>MGT 3093, Professional Selling and Sales Management</td>
</tr>
<tr>
<td>MGT 4063, Electronic Marketing</td>
</tr>
<tr>
<td>MGT 4093, Carrier Management</td>
</tr>
<tr>
<td>MGT 4273, Transportation Internship</td>
</tr>
<tr>
<td>ACCT 4003, Managerial Accounting</td>
</tr>
<tr>
<td>BCOM 3573, Managerial Communication</td>
</tr>
<tr>
<td>MGMT 4123, International Management</td>
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<tr>
<td>ECON 4333, Government Regulation of Business</td>
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<tr>
<td>ECON 4343, Managerial Economics</td>
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<table>
<thead>
<tr>
<th>Free Electives:</th>
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<table>
<thead>
<tr>
<th>Free Electives:</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>19-16</td>
</tr>
<tr>
<td>Total</td>
<td>126</td>
</tr>
</tbody>
</table>
DEPARTMENT OF ACCOUNTING AND LAW

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

**Accounting (ACCT)**

**2003. Principles of Accounting I** The accounting cycle for merchandising and service oriented business organizations. Primary emphasis is on accounting principles applicable to measuring assets, liabilities, owners' equity and income. (F, S, SU)

**2013. Principles of Accounting II** Special measurement problems for partnerships and corporations. The course also covers basic accounting and reporting for manufacturing companies. A part of the course is devoted to special reports, and managerial uses of accounting data for the decision making function. Prerequisite: ACCT 2003 with a grade of "C" or better. (F, S, SU)

**2023. Fundamental Accounting Concepts** Primary emphasis will be in developing an understanding of the fundamental accounting concepts, with secondary emphasis on procedural mechanics. In addition, the student should develop an awareness of the language and environment of American business, an appreciation of accounting methodology, and skill in problem solving. (open only to students not majoring in the College of Business) (F, S)

**3003. Intermediate Accounting I** An in-depth study of accounting statements, the accounting process, inventory valuation procedures, operational assets, and investments. Prerequisite: ACCT 2013 with a grade of "C" or better. (F, S, SU)

**3013. Intermediate Accounting II** A detailed study of the corporate form of organization. In addition, effort is devoted to error corrections, analysis of financial statements, funds flow and cash flow reporting, and the controversial areas of accounting. Prerequisite: ACCT 3003 with a grade of "C" or better. (S, SU)

**3023. Cost Accounting I** General principles of cost accounting, including the methods of collection, preparation, and interpretation of cost data for industrial and commercial concerns, comprehensive budgets, and standard costs. Prerequisite: ACCT 2013 with a grade of "C" or better. (F, SU)

**3043. Cost Accounting II** Continuation of Cost Accounting I. Includes decision models and cost information, cost allocation, systems choice and management control. Prerequisite: ACCT 3023. (S)

**4003. Managerial Accounting** Accounting principles and trends especially from the managerial viewpoint. Control of business activities through accounting: allocation of costs; financial statement analysis; concepts of costs, income, revenue, and equities, and their connection with accounting objectives. (not available to accounting majors) Prerequisite: ACCT 2013 with a grade of "C" or better. (S, SU)

**4013. Tax Accounting I** Examines the laws, rules, and procedures of federal income taxes for individuals. In addition, the business events and transactions which influence taxable income for individuals are studied. Prerequisite: ACCT 2013 with a grade of "C" or better. (F, S)

**4023. Advanced Accounting and International Issues** Advanced study of accounting concepts and problems in the areas of business combinations, partnerships, and international accounting. Prerequisite: ACCT 3013 with a grade of "C" or better. (F, S)

**4033. Accounting Information Systems** Study of the role, design, characteristics, and function of accounting information systems. Prerequisite: ACCT 3003, ACCT 3023 with a grade of "C" or better, and CIT 2023 or consent of instructor. (S, SU)

**4053. Auditing I** Standards and procedures, code of ethics, form of audit reports and statements, and the principles underlying the verification of data presented in financial reports. Prerequisites: ACCT 3013 with a grade of "C" or better and ECON 2113. (F, SU)

**4113. Tax Accounting II** Continuation of Tax Accounting I. Emphasis in this course will be on federal income tax laws for partnerships, fiduciaries, and corporations. Prerequisite: ACCT 4013. (S)

**4123. Government and Not-For-Profit Accounting** Accounting principles and reporting standards as applied to governmental units and not-for-profit enterprises. Special emphasis will be placed on pronouncements of the Governmental Accounting Standards Board. Prerequisite: ACCT 2013 with a grade of "C" or better. (F, SU)

**4143. International Accounting** Introduction to international accounting issues including political, legal, and cultural influences; international accounting standards; foreign currency transactions; consolidated reporting for global firms; planning, control, and performance measurement systems; transfer prices and taxation. Prerequisite: ACCT 2013. (F)
4153.  Fraud Examination  A study of how and why occupational fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. Prerequisite: ACCT 2013. (S)

4301-2-3. Special Problems in Accounting  Individual problems or topics in accounting arranged in consultation with the instructor. (Must be approved by department chair) (D)

4783. Internship in Accounting  Provides practical financial, managerial, or not-for-profit experience through work in a meaningful capacity. Prerequisite: 12 hours of accounting above the principals level and approval of departmental chair. (F, S, SU)

Law (LAW)

2023. Legal Environment of Business  Introduction to the fundamental elements of the Anglo-American legal system and its common law origins. The scope of the course will include the application and operation of the legal system in the remedy of business disputes, the development and operation of the court system, and the regulation of American business and industry by the United States government. (F, S, SU)

4033. Law of Commercial Transactions  Business-related legal subject matter reflecting marketplace problems and considerations. Topics include the law of sales, secured transactions, commercial paper, contracts, and bankruptcy. Prerequisite: LAW 2023. (S)

4043. Law of Business Organizations  Business-related legal subject matter reflecting marketplace problems and considerations. Topics include the law of corporations, partnerships, agency, and property. Prerequisite: LAW 2023. (F)

4053. Employment Law  Analysis of current employment law practices as applied to human resource management, with emphasis on federal and state civil rights laws. Prerequisites: LAW 2023 and MGMT 3123. (F)

DEPARTMENT OF ECONOMICS AND FINANCE

Economics (ECON)

2113. Business Statistics I  Statistical methods used in studying business and economic data; averages and dispersions, probability, sampling, statistical inference, estimation, tests of hypotheses, index numbers, linear regression and correlation. Prerequisite: MATH 1023 or MATH 2143 and student must have satisfied College of Business Computer Proficiency Requirement. (F, S, SU)

2313. Principles of Macroeconomics  National income accounting, inflation and unemployment, competing theories of national income, fiscal policy, the Federal Reserve system and monetary policy, and international trade. (F, S, SU)

2323. Principles of Microeconomics  Principles of resource allocation, supply and demand, consumer behavior, costs of production, the competitive model, oligopoly, and factor markets. (F, S, SU)

2333. Economic Issues and Concepts  Designed to give the student a basic understanding of our economic system. Basic economic concepts will be explored and contemporary economic problems and issues will be examined in light of the concepts learned. (F, S)

3113. Business Statistics II  A computer-integrated analysis of descriptive and inferential business statistics with an emphasis on the application of statistical techniques and interpretation. Prerequisite: ECON 2113 (D)

3313. Microeconomic Analysis  Designed to develop an analytical framework for the study of the determination of relative prices and the allocation of resources in a market economy. The course will cover consumer choice and demand, resource utilization and the theory of the firm, competitive market equilibrium and resource allocation, and non-competitive market structures. Prerequisites: ECON 2133 and 2323. (F)

3323. Money and Banking  Monetary and banking history, with emphasis on the theory of money and banking in the United States, operations of commercial banks and the Federal Reserve System. Prerequisites: ECON 2133 and 2323. (F, S, SU)

3343. Comparative Economic Systems  Comparative study of alternative economic systems. Emphasis is given to the institutions and principles which guide the use of scarce resources to want satisfaction. Particular attention is given to the operation of actual economic systems concerning the extent to which they are market directed or government directed. (S)

3353. Macroeconomic Analysis  Explains economic theories as they relate to national policy making. Emphasis on causes of inflation and unemployment. Prerequisites: ECON 2313 and 2323. (S)

3363. Labor Economics  The economics of labor markets; factors affecting the economy’s demand for labor and the decisions of workers to supply labor. Current labor market problems such as unemployment, unions, poverty and productivity will be analyzed. Prerequisites: ECON 2133 and 2323. (S -odd)

4103. International Trade  Economic theory and history of international trade. Topics such as comparative advantage, the effect of protectionism and determination of exchange rates will be emphasized. Prerequisites: ECON 2313 and 2323. (This course can be counted as an Economics elective). (This course is cross-listed as IB 4103). (F, S, SU)

4303. Economics of Sports  Applies microeconomic theory to the sports industry. The course includes discussions of the economics of professional and intercollegiate athletics, applying the concepts of collective bargaining, cartel behavior, game theory, antitrust issues, and public finance. Prerequisite: ECON 2323. (F)

4313. History of Economic Thought  Brief review of the doctrines of economic thinkers from early time through Marshall. Broader study of modern writers and theories. Prerequisites: ECON 2313 and 2323, or ECON 2333. (F)

4323. Economic Policy Analysis  Deals with public revenues, the theory of taxation, institutions and problems of the revenue system as a whole, and the effects of the taxing, spending, lending, and borrowing by government units upon the national income and employment. Prerequisites: ECON 2313 and 2323, or ECON 2333. (SU -even)

4333. Government Regulation of Business  Survey of theoretical treatments of oligopoly, natural monopoly, and market failures; review of antitrust statutes applicable to price-fixing, monopoly, mergers, vertical restraints, and price discrimination; social welfare trade-offs associated with public regulation of electric, natural gas, cable TV, and telecommunications firms. Prerequisite: ECON 2313, 2323. (S -fall)

4343. Managerial Economics  Practice in the use of economic principles in solving business problems. Areas covered include uncertainty, forecasting, demand analysis, and capital management. Prerequisites: ECON 2313 and 2323, ECON 2113 and 3523. (F, S, SU)

4353. Economic Development  Primary concern is with theories and methods of economic development for developing countries. Agriculture, population, investment, natural resources, international relations and economic aid are the main topics of the course. Prerequisites: ECON 2313 and 2323. (F -odd)

4363. Global Environmental Policies  This course examines the impact of human activities on ecosystems and vice versa, as well as the use of markets to manage the environment. Topics include environmental services, ecotechnology, pollution control, valuation, economics of climate change and biotechnology. (F)
4681-2-3. Special Problems in Economics Individual problems in economics arranged in consultation with the instructor. (Must be approved by department chair). (F, S, SU)

Economic Education (ECED)

3513. Economics for Teachers Designed to give school teachers an overall view of the structure and operation of our economic system. Emphasis will be placed on preparing teachers to utilize economic concepts in analyzing current economic problems. (for Education majors only—no credit for business majors) (F, S, SU)

4061-2-3 Seminar in Business Issues Advanced seminars on selected business topics designed to provide in-service teachers with an in-depth examination of the issues surrounding those topics.

4513. Economic Education Workshop Provides in-service teachers a means for developing a fundamental understanding of our total economic system; its processes, problems and potentialities. Teachers learn how to relate this understanding to current economic issues and policies. This workshop will satisfy the requirement for teacher certification. Open to in-service teachers, all grade levels. (SU)

4523. Special Issues and Methods in Economic Education Detailed examination of selected contemporary economic issues appropriate for grades kindergarten through twelve. Prerequisites: ECON 4513 and/or instructor’s approval. (D)

Finance (FIN)

3713. Business Finance Legal forms of American business organization, policies, methods, and institutions involved in financing business. The principles of financial management will be studied with emphasis on the corporations, including cash flows, securities, financial structures, expansion, and acquisitions. Prerequisite: ACCT 2013 or 2023. (F, S, SU)

3733. Personal Finance Concerned with management of the personal financial resources of the individual and the family. Provides guidance for consumer purchasing and credit, personal insurance, taxation, investing, estate planning, and social security. (Designed for nonbusiness majors; course counts only as a free elective, except where required in major) (F, S, SU)

3763. Financial Institutions and Markets An in-depth study of financial institutions such as banks, savings and loans, insurance companies and financial markets. Primary emphasis will be on depository institutions. Prerequisite: FIN 3713 (F, S)

3773. Financial Risk Management An in-depth study of financial risks facing banks—such risks as those arising from fixed income and foreign exchange investments will be covered. (F)

3813. International Financial Management and Banking Study of financial concepts and issues in banking as they relate to business decisions in a global economy.

4293. New Venture Financing Introduction to the dynamic challenges facing new business ventures in securing financial backing to support growth and development. Venture capital, internally generated funding and external sources of funding will be discussed along with debt and equity financing. (S)

4723. Investments Security investment, the tools of investment analysis, the formulation of investment policy and the role of the individual investor in the economy. Prerequisite: FIN 3713. (F, S)

4743. Managerial Finance Emphasis on principles and tools for analysis and decision making in working capital management. Studies include cash flow forecasting, inventory model applications, sources and uses of funds analysis, trade credit policies, and techniques of short- and intermediate-term sales forecasting. Prerequisite: FIN 3713. (F, S)

4753. Capital Management Analysis of the management aspects relating to the inflows and outflows of permanent capital in business enterprises. Examines the management of long-term assets, long-term credit, equity and internal financing. Corporate expansion including mergers, acquisitions, corporate reorganization, and bank ruptcies. Prerequisite: FIN 3713. (F, S)

4763. Bank Management Principles used in the management of commercial banks, relating to loans, credit analysis; security portfolios; analysis and interpretations of Federal Reserve regulations and publications. Prerequisite: FIN 3713. (F)

4783. Internship in Bank Management Supervised work experience with bank management in an appropriate banking environment. To earn intern credit, each student is expected to spend six to eight hours per week for 15 weeks or the equivalent at the bank. Prerequisites: Junior or Senior standing is required. (F, S, SU)

4891-2-3. Special Problems in Finance Individual problems in finance arranged in consultation with the instructor. (Must be approved by department chair) (F, S, SU)

Real Estate and Insurance (REI)

3413. Real Estate Practice Introductory study of real estate business; basic principles of real property ownership, utilization, and transfer; mortgage financing; brokerage; management; valuation; and subdividing. (F)

3423. Real Estate Brokerage and Management Organization and conduct of real estate brokerage and managerial business and professional activities. Social, economic, legal, and ethical responsibilities of the real estate broker and real property manager. (D)

3433. Abstracting and Platting Real Estate Kinds of conveyances and encumbrances affecting the title to real estate. Methods used in proving title, including abstracting and title insurance. The process of platting using various types of legal descriptions. (F - even)

3513. Risk and Insurance Introductory study of the insurance business; risk theory, the insurance mechanism, fundamental legal principles and insurance contract analysis. Emphasis on the insurance needs of a typical American family. (F, S, SU)

4413. Legal Aspects of Real Estate Principal areas of real estate law including those applicable to real estate brokers within Arkansas. (D)

4423. Real Estate Finance Instruments, techniques, and institutions of real estate finance; sources of funds; mortgage risk analysis; emphasis on typical policies and procedures used in financing of residential, industrial, and commercial properties. (S)

4433. Real Estate Appraising Factors influencing real property values; application of three approaches in determining the value of residential, commercial, and industrial properties. (F)

4443. Appraising and Investment Analysis of Income Property Application of techniques used in analyzing potential return from income properties to arrive at investment decisions and estimates of real estate values. Prerequisite: REI 4433 or consent of instructor. (S - even)
NOTE: CIT 3013 is a prerequisite or co-requisite for ALL upper-level CIT courses.

DEPARTMENT OF COMPUTER AND INFORMATION TECHNOLOGY

Computer Information Technology (CIT)

1503. Microcomputer Applications Study of the role of the microcomputer or PC as a tool used for business. The applications covered will include: Windows operating system, Internet access, E-mail operations, Excel spreadsheets, and Powerpoint presentations. (F, S, SU)

2033. Visual BASIC Programming An introduction to Windows programming using Microsoft Visual Basic.NET. Students learn the concepts needed to write programs using an object-oriented programming language. Prerequisite: Completion of computer proficiency requirements. (F, Su)

2203. Structured Programming Using COBOL Business application programs will be written using the structured format of the COBOL language. Programming structured covered will include: sorting, control breaks, data validation, table processing, and screen design. D)

2413. Word Processing I Introduction to word processing concepts and applications. Prerequisite: Ability to keyboard. (F, D)

2523. Telecommunications & Networking Essentials This course will examine basic networking fundamentals. These include networking media, connectivity, devices, telecommunications protocols, and different networking models. (F, S, SU)

2543. Keyboarding for Professionals Covers entry-level and advanced-level job simulations in legal, medical, technical, accounting, and other firms. Prerequisite: Keyboarding I or equivalent. (F, S, SU)

3013. Management Information Systems Provides understanding of management information technology used by various business subsystems, and how technology can be utilized for competitive advantage. (F, S, SU)

4513. Property and Liability Insurance Analysis of risk theory, property and liability risks, and the economic functions of property insurance. The course treats traditional and modern theories of risk, property and liability coverages, and functional insurance areas. (S)

4543. Life Insurance Analysis of the economic functions of life insurance. Attention is centered on the human-life value concept and the basic forms of life insurance and annuities. Legal aspects, contractual provisions and health and other specialized forms of human life value insurance are studied. (F)

4591-2-3. Special Problems in Real Estate and Insurance Individual problems in real estate and insurance arranged in consultation with the instructor. (Must be approved by department chair). (F, S, SU)

4601-2-3. Internship in Real Estate and Insurance Practical training in real estate or insurance within appropriate companies or agencies. To earn intern credit, each student will be expected to spend two hours with the firm per week per credit hour awarded. Prerequisites: REI 3413 (for real estate) or REI 3513 (for insurance) and approval of instructor. (These prerequisite courses permit an individual to hold a valid license to practice in each respective field after passing the proper licensing examination). Internship requires a Junior classification or above. (D)

4633. Modern Programming Languages Students will be required to solve typical business and industry problems. Both C++ console applications and Windows applications using Microsoft Foundation Classes will be introduced. Prerequisite: Successful completion of a programming course with a grade of "C" or better. (F)

4303. Interactive Programming Explores the development of Windows based applications and programming to provide connectivity to web based resources is also included. Prerequisite: Previous programming language. (S)

3353. Web Site Design and Development Basic design principles of building web pages, site management, and development for various browser environments. Includes HTML, style sheets, client-side and server-side scripting, and related technologies. Prerequisite: Previous programming language. (F)

3403. Database Management Discussed enterprise-wide database theory and Structured Query Language (SQL) with the use of industry standard DBMS, ORACLE. Prerequisite: CIT 1503 or equivalent, CIT 3013. (F, S, SU)

3413. Advanced Database Management Extends the coverage of CIT 3403 using a popular DBMS. Topics include client applications, object-oriented database development, and data security. Prerequisite: CIT 3403. (S)

3463. Multimedia Technology Introduces the student to various electronic means of presenting information of professional design and quality using presentation software. (S)

3523. Operations Management Introduction to the operations function in manufacturing and services. Emphasis on continual improvement of systems for producing goods and services. Prerequisite: ECON 2113. (F, S, SU)

3533. Microcomputer Applications II Continuation of CIT 1503 to cover topics in the area of operating systems, word processors, spreadsheets, presentation packages, and other related utilities. Prerequisite: CIT 1503 or demonstrated proficiency. (F, S)

3603. Systems Analysis and Design Covers the basic techniques used in the analysis, design, and implementation of computer based information systems. Provides an understanding of the systems study, project evaluation, planning, and systems design. Prerequisite: Competency in a programming language or consent of instructor. (F, S, SU)

3623. LAN Administration Covers topics pertinent to the administration of a local area network. Topics include: user management, file management, security, and network printing. Prerequisite: Computer literacy. (F, S, SU)

4053. Information Resource Management Examines the integration of manage-ment information technology into the mainstream of business functions. Emphasis is placed on resource planning on an enterprise-wide scale. (S)

409V. Special Problems in Information Systems Individual problems in CIT arranged on a case-by-case basis after consultation with the instructor. Student must meet departmental requirements before enrolling in this course. (F, S, SU)

4103. Advanced LAN Administration Advanced networking administration issues are covered as they relate to local area networks. Students will be introduced to advanced client/server management topics necessary to administer a large complex network. Prerequisite: CIT 3623 or prior network experience. (S)

4403. Database Administration A study of the basic areas necessary for completion of professional certification exams in database administration covering topics such as advanced SQL, database server, storage structure and relationships, data integrity and security. Prerequisites: CIT 3403, CIT 3413. (F)

NOTE: CIT 3013 is a prerequisite or co-requisite for ALL upper-level CIT courses.
4413. Advanced Database Administration A study of the basic areas necessary for completion of advanced professional certification exams in database administration covering topics such as backup and recovery, managing schema objects and data, database security, monitoring and resolving lock conflicts, and undo management. Prerequisites: CIT 3403 and CIT 3413 and CIT 4403 or consent of instructor. (S)

4453. Global E-Commerce Provides an understanding of the technologies behind E-commerce and how they enable the delivery of goods and services using electronic formats. (S)

4503. Business Technology Methods The present status and software usage of business technology personnel. Special attention is given to instructional innovations. Intended for BSE majors. (S)

4533. Word Processing II Advanced word processing concepts and applications. Prerequisite: CIT 2413 or consent of instructor. (S, D)

4593. Business Technology Field Experience Provides business technology teachers, under direct supervision, the opportunity to develop and/or refine their technology competencies in business occupations. Intended for BSE majors. (Su)

4603. Microcomputer Applications III Course three of the study of the role of a software suite as a tool used in business. The applications covered will include: Word Processing, Spreadsheet, Database, and electronic presentations. Prerequisite: CIT 3503 and CIT 3533, or demonstrated proficiency. (S)

4653. Automatic Data Capture Methods, technologies, systems, and standards used in supply chain information systems and e-business for automatically identifying objects, and collecting and transferring data. Technologies such as bar coding, RFID, smart cards, magnetic striping, biometrics, GPS, real-time locating, and voice data entry, as well as their business applications are addressed. (F)

4823. LAN Design Students will be required to complete a complex network design for a model company. The design will include hardware/software installation, database design and replication, and implementation of various troubleshooting models. Prerequisite: CIT 3523 or CIT 3623 or prior network experience. (SU)

4853. IT Project Management Provides students with the information needed to manage a technical project within a business environment. Students will work a project simulation through the project management cycle from project team selection to project implementation. Taken during last semester or with permission of instructor. (Su)

488V. CIT Internship Provides practical information technology experience in a CIT setting. Students will be assigned to work with an outside organization to gain real-world training. Prerequisite: Permission of Department Chair and Internship Director required. (F, S, SU)

Quantitative Management (QM)

4613. Production Management Advanced procedures, techniques, and their application to problems related to production management. Emphasis is also placed on the design of operations planning and control, quality control, inventory, maintenance, and product planning systems within the firm. Prerequisite: CIT 3523. (S, D)

4291-2-3. Special Problems in Business Technology Individual problems in Business Technology arranged in consultation with the instructor; must be approved by the department chair. (Special course fees may apply.)

DEPARTMENT OF MANAGEMENT AND MARKETING

Management (MGMT)

3123. Principles of Management Overview of foundational management principles, including internal and external assessment and planning; organization structure and design; leadership and motivation; and decision and control processes. (F, S)

3143. Human Resource Management Functions and problems involved in personnel management with emphasis placed upon recruitment, selection, management development, utilization of and accommodation to human resources by organizations. Prerequisite: MGMT 3153. (F, S)

3153. Organizational Behavior An interdisciplinary analysis of the relationships of individuals and groups within the context of the organization, blending concepts drawn from psychology, sociology, philosophy, and communication theory with basic managerial concepts. (F, S)

3163. Labor Relations and Collective Bargaining Labor-management relations in both the public and private sectors, with emphasis on the process of managing within a union environment that involves contract negotiation, mediation, and arbitration. Prerequisite: MGMT 34143 (F)

3173. Career Management Recruiting, selection and placement organization of a firm. Involves in-depth analysis of occupational information resources, interview techniques, placement services, job search strategies, recruitment strategies and career advancement. Prerequisite: MGMT 3153. (D)
3183. Entrepreneurship Explores the nature of entrepreneurial activity, the basics of business plan development, new venture creation, and small business strategic planning. (F)

3193. Social Impact Management Examines the interdependence of business and society. Students will develop skills to manage social impacts and divergent stakeholder perspectives. (D)

3613. Leadership Leadership processes and application at the organization, group, and individual levels. Emphasis on team activities. Prerequisite: MGMT 3123 or MGMT 3153. Prerequisite: MGMT 3143. (S, D)

4123. International Management Systematic review of international environment forces and their influence on all management areas of the international firms: organizational structures, human resources, logistics, laws, and policy. Prerequisite: MGMT 3153. (F, S, D)

4143. Organizational Change and Development Application of planned organizational change and development with an emphasis on how change occurs in dynamic organizational cultures in contemporary business organizations. Prerequisite: MGMT 3153. (D)

4153. Small Business Institute Designed to give students experience in dealing with problems in a real business environment by giving them the opportunity to furnish management assistance counseling to members of the small business community. Particular emphasis is placed on identifying the firm’s resources, evaluating the firm’s objectives, identifying sensitive problem areas, and formulating an appropriate business plan. Students are expected to possess multi-disciplinary skills and be able to integrate these skills in the management assistance provided the small business client. Prerequisite: Written approval of SBI Director. (D)

4153. Small Business Management The application of management, marketing, and finance to small business. The course addresses practical aspects of planning and organization, marketing, human resources, and financial control. Prerequisites: MKTG 3013, ACCT 2003, ACCT 2013, and MGMT 3153. (D)

4153. Compensation Management Design and administration of compensation systems. Deals with determinants of general pay level, job evaluation, wage and salary survey, fringe benefit plans and the impact of current government regulations on pay structures. Prerequisite: MGMT 3143. (S, D)

4183. Family Business Management Explores the challenges faced by family members directly involved in a family business. Topics discussed include business culture, entrepreneurial influences, family and non-family conflict, and needed survival skills for sons or daughters. (Su)

4193. Management Internship Provides practical management experiences in personnel or industrial management. Senior students will be assigned to work with a regional firm, supervised by an experienced professional to gain real world training. Prerequisites: MGMT 3153 and consent of instructor. (F, S, SU)

4291-23. Special Problems in Management Individual problems in management arranged in consultation with the instructor. (Must be approved by department chair). (F, S, SU)

4393. Management of Service Operations Examines issues essential to the success of a service-oriented operation. Topics include: classification of services, service design and process selection, service, delivery system, capacity analysis, location, layout, automation, quality control, and scheduling. Heavy emphasis placed on case studies and analysis of real-world scenarios. (D)

4813. Strategic Management Designed to give students the opportunity to study administrative processes under conditions of uncertainty including an integrating analysis applied to all fields of business. Special emphasis is given to policy determination at the overall management level. Prerequisite: Senior standing, last semester, and completion of all other College of Business core requirements. Strategic Management may not be taken by correspondence. (F, S, SU)

Marketing (MKTG)

1013. Introduction to Business Survey course to acquaint beginning students with the major institutions and practices in the business world, to provide elementary concepts of business, and to serve as an orientation course for selection of a specific major. (Open to College of Business freshmen and non-business majors only). (F, S, D)

3013. Marketing Business activities performed which direct the flow of goods and services from producer to consumer or user in order to satisfy customers and accomplish the company’s objectives. Prerequisite: ECON 2323 or 2333. (F, S, SU)

3023. Applied Research Systematic gathering, organizing, and analyzing data to provide managers with information they need to make better decisions. Emphasis is placed on the use of secondary data. Report writing and presentation are stressed. Prerequisite: ECON 2113, BCOM 2563. (F, S, D)

3033. Advertising and Promotion Advertising and other communication methods designed to present a company and its products or services to prospective customers. Prerequisite: MKTG 3013. (F, S, D)

3043. Retailing Evaluation of the many elements in the dynamic retail field and a discussion of the responses of retailing institutions, including management policies and operating methods. Prerequisite: MKTG 3013. (D)

3063. Transportation Introduction to transportation systems with emphasis on the significance of transportation in the business and economic environment. The course is designed to familiarize students with a development of our transportation network, transportation prices, rate theory, and regulatory policies and procedures. Prerequisite: ECON 2323. (F, D)

3073. Market Planning Quantitative basis of pricing and product management used to facilitate understanding of decision-making processes when developing and coordinating a coordinated marketing strategy. Prerequisite: MKTG 3013. (F, S, D)

3093. Professional Selling and Sales Management Introduction to the personal selling process, the functions of sales management, and current issues, legal and ethical issues, and the impact of technology as the topics relate to selling, the sales force, and sales management. Prerequisite: MKTG 3013 (D)

4013. Service and Non-Profit Marketing Application of marketing to service and non-profit industries. Emphasizes the peculiar nature of services and non-profit marketing when developing marketing strategies. Prerequisite: MKTG 3013. (D)

4043. Consumer Behavior Evaluation of the extensive body of research evidence pertaining to the consumer, and an assessment of the marketing implications of the various processes and facets of consumer motivation. (D)

4053. Electronic Marketing The course is designed to introduce and expand students’ knowledge and usage of electronic resources for application in the marketing process. Prerequisite: MKTG 3013. (D)
4063. Supply Chain Management Aspects of moving raw materials and finished goods through the firm’s networks of warehousing, inventory control, materials management, and order processing. The student will examine trade-off possibilities and management alternatives to minimize cost of production flow and to maximize customer service. Prerequisite: MKTG 3013. (F, S, D)

4083. Marketing Research Design and Analysis Processes involved in gathering, recording, and analyzing all facts about problems relating to the transfer and sale of goods and services from producer to consumer. Prerequisites: MKTG 3013 and MKTG 3023. (F, S, D)

4093. Carrier Management Investigation of the transportation industry from the carrier perspective. Deals with analysis of carrier operations problems including traffic flow, transportation services marketing, equipment selection and control, fleet management, claims management, and dispatching procedures. Prerequisite: MKTG 3063. (S, D)

4113. International Marketing Exporting and importing products, as well as the management of international operations. These include all phases of business activity related to operating marketing and sales facilities abroad, establishing production or assembly facilities in foreign areas, and creating licensing arrangements. Prerequisite: MKTG 3013. (F, D)

4191-2-3. Special Problems in Marketing Individual problems in marketing arranged in consultation with the instructor. (Must be approved by the department chair). (F, S, SU)

4223. Marketing Management Combines team effort and critical analysis of marketing strategies in a competitive situation. The study includes the planning and implementation of product, price, distribution, and promotion strategies as well as continual assessment and adjustment of such strategies in a simulated environment. Prerequisite: MKTG 3013. (D)

4273. Transportation Internship Provides practical transportation experience in business. Senior students will be assigned to work with regional firms and be supervised by an experienced professional. Prerequisites: MKTG 3063 and consent of instructor. (F, S)

4283. Marketing Internship Provides practical marketing experience in merchandising or transportation. Senior students will be assigned to work with regional firms, supervised by an experienced professional to gain real world training. Prerequisites: MKTG 3013 and consent of instructor. (F, S, SU)

431V. Health Care Marketing The course explores a variety of environmental factors which affect the delivery of health services at all levels and discusses marketing approaches/techniques to best meet the needs of the community served. Prerequisite: MKTG 3013. (D)

432V. Customer Relationship Management This course focuses on the broad spectrum of CRM and concentrates on concepts and practices related to building and maintaining customer loyalty and lost customer winback. Prerequisite: MKTG 3013. (D)

433V. Social Marketing The application of marketing principles and activities such as research, segmentation, product development, pricing, event marketing, sponsorship, consumer behavior, licensing, branding, advertising, and sales promotion tactics will be analyzed in the context of effective sports marketing. Prerequisite: MKTG 3013. (D)

435V. Internet Marketing The application of electronic resources to the marketing process. The course will familiarize students with electronic resources and the use of the Internet in the marketing process. Prerequisite: MKTG 3013. (D)

436V. Direct Marketing This course introduces students to the basic principles and practice of direct marketing. Topics will include the history and development of direct marketing; the industry players and what they do; organizations and products that use direct marketing in their marketing mix; and the use of databases in direct marketing. Prerequisite: MKTG 3013. (D)

437V. Carrier Operations The course investigates the transportation industries and associated public agencies from a carrier management perspective. Topics for study include organizing carrier operations, traffic analysis, equipment selection, carrier marketing, pricing, claims and quality control, and regulatory matters. Prerequisite: MKTG 3013. (D)

438V. Logistics Outsourcing The course will focus on contract logistics, or outsourcing, that require new, long term contractual relationships effecting buyers, sellers, and third parties. Prerequisite: MKTG 3013. (D)

439V. Business Communication The course will focus on using marketing principles and techniques to influence target audience to voluntarily accept, reject, modify, or abandon a behavior for the benefit of individuals, groups, or society as a whole. Prerequisite: MKTG 3013. (D)

International Business (IB)

3813. International Financial Management and Banking Study of financial concepts and issues in banking as they relate to business decisions in a global economy. (This course is cross listed as FIN 3813.) (SU -odd)

4103. International Trade Economic theory and history of international trade. Topics such as comparative advantage, the effect of protectionism and determination of exchange rates will be emphasized. Prerequisites: ECON 2313 and 2363. (This course can be counted as an Economics elective). (This course is cross-listed as ECON 4103). (F, S, SU)

4133. International Law Law relevant to transactions conducted in international markets. Covered topics include the concept, the sources, the force and effect, and the history and scope of international law. Prerequisite: BUAD 2023. (This course can be counted as a BUAD elective.) (D)

4273. Special Problems Independent research study dealing with the socio-economic, political, and cultural environment of an area or foreign country. The study may also deal with the production, marketing, promotion, and pricing of a product abroad and with the management aspects of a multinational business. (F, S, SU)

4283. Internship in International Business Studies Supervised work experience with a firm in a foreign country, the international division of a firm in the United States, an international institution, or a government agency dealing with international business or foreign relations. Provides a practical experience for international business students. Prerequisite: junior or senior classification and consent of instructor. (D)

Business Communications (BCOM)

2563. Business Communication Theories and principles of written, interpersonal, and oral communication. Prerequisite: ENG 1013 (F, S, SU)
The College of Communications offers students the opportunity to combine the best of a broad education in the liberal arts and sciences with the professional preparation required in the wide variety of fields in communications. The college has three departments: Journalism; Radio-Television; and Speech Communication. The college is accredited by the Accrediting Council on Education in Journalism and Mass Communications.

Studies in the college allow students to learn to gather, organize, synthesize and communicate information professionally in a democratic, multi-cultural society. They learn to think critically and communicate effectively in preparation for productive roles, for example, in news, radio, television, cable, public relations, organizational communication, advertising, photojournalism, graphic communications, web and multimedia production and design or health communication. Students also find communications courses excellent preparation for graduate work and the study of law.

In addition to meeting the general requirements for all baccalaureate degrees, candidates for a bachelor of science in Radio-Television or Journalism must complete 125 hours. Students pursuing degrees in radio-television and journalism are required to have a minor outside their two departments. The minor must be approved by the student’s adviser. Students pursuing a bachelor of arts in Speech Communication or a bachelor of science in Graphic Communications must complete 124 hours.

To assure that students earning the bachelor of science degree in journalism or radio-television acquire the broad education needed by a mass communications professional, the college requires that 80 semester hours of a student’s degree program be completed outside the Departments of Radio-Television and Journalism. At least 65 of the 80 hours must be in courses approved as “liberal arts and sciences.” A list of approved courses is available at department offices.

The College of Communications offers students opportunities to apply what they learn in a variety of national student organizations, including: The Herald, ASU-TV, the Forensicsteam, American Advertising Federation, Society of Professional Journalists, National Broad-casting Society, National Press Photographers Association, Gamma Tau Epsilon (graphic communications), Public Relations Student Society of America, the Association of Women in Communications, the Undergraduate Student Research Association, and three honorary groups: Kappa Tau Alpha (journalism and mass communications), Pi Kappa Delta (forensics), and Lambda Pi Eta (communication).

Department of Journalism

Associate Professor Joel Gambill, Chair; Professors Fowler, Shipman; Associate Professors Fears, Zibluk; Instructors Hill, Mishra, Moskal, Thrasher

Programs in journalism (with emphases in news-editorial, public relations, advertising, and photojournalism) and Graphic Communications are administered under the Department of Journalism.

The professional program in journalism provides the opportunity for individuals to prepare for productive roles in news-editorial journalism, public relations, advertising, or photojournalism. The program strives to provide realistic instruction in modern journalistic techniques, promote a rich background in the liberal arts and sciences, and present current communications problems and trends in the context of their origin and development.

The purpose of the graphic communications program is to educate individuals for management-level positions.
Major in Journalism
Bachelor of Science

General Education Requirements:  
Refer to index for General Education Curriculum for Baccalaureate Degrees 46-49

Major Requirements:  
Sem. Hrs.
JOUR 1003, Mass Communications in Modern Society 3
JOUR 2003, News Writing 3
JOUR 2003, News Writing Reporting 3
JOUR 4073, Communications Law and Ethics 3

12

Emphasis Area: (select one of the four options)

News-Editorial Journalism  
Sem. Hrs.
JOUR 3003, Feature and Magazine Article Writing 3
JOUR 3043, Photography 3
JOUR 3053, News Editing 3
JOUR 3073, News Design 3
JOUR 3083, History of the Mass Media 3
JOUR 4053, Public Affairs Reporting 3
Additional hours in the Departments of Journalism and Radio-Television 9-15
Minor in the liberal arts and sciences; must be approved by adviser 18-24

48-57

Public Relations  
Sem. Hrs.
PR 3003, Principles of Public Relations 3
PR 3013, Public Relations Tools and Techniques 3
JOUR 3063, Communications Research 3
JOUR 3073, Desktop Publishing 3
PR 4013, Practicum in Public Relations 3
PR 4033, Public Relations Case Studies and Campaigns 3
Radio-Television Elective 3
Additional hours in the Departments of Journalism and Radio-Television 6-12
Minor; outside the College of Communications (must be approved by adviser) 18-24

48-57

Advertising  
Sem. Hrs.
ECON 2313, Principles of Macroeconomics 3
ECON 2333, Principles of Microeconomics 3
MKTG 3013, Marketing 3
JOUR 3023, Principles of Advertising 3
JOUR 3033, Advertising Copywriting 3
JOUR 3063, Communications Research 3
JOUR 3073, Desktop Publishing 3
RTV 3333, RTV Advertising and Sales 3
JOUR 4003, Media Planning 3
JOUR 4033, Advertising Case Studies and Campaigns 3
Additional hours in the Departments of Communications 6-12
Minor; outside the College of Communications (must be approved by adviser) 18-24

57-66

*Economics and marketing courses taken to meet general education or minor requirements cannot be used to meet requirements of the advertising emphasis area. When encountering such a conflict, the student may substitute approved hours in the liberal arts and sciences for major requirements.

Photojournalism  
Sem. Hrs.
JOUR 3043, Photography 3
JOUR 3063, News Editing 3
JOUR 3073, News Design 3
JOUR 3083, History of the Mass Media 3
JOUR 3093, Photojournalism 3
JOUR 4013, Advanced Photojournalism 3
JOUR 4003, Feature and Magazine Article Writing OR
JOUR 4053, Public Affairs Reporting 3
GCCM 1813, Introduction to Digital Publishing 3
Additional hours in the Department of Journalism and Radio-Television 3-9
Minor in the liberal arts and sciences; must be approved by adviser 18-24

48-57

Electives:  
(Number of hours determined by emphasis area and minor selected) 125

NOTES: 1. Areas within the liberal arts and sciences include art history, biology, botany, chemistry, computer science, economics, English, entomology, French, geog- raphy, geology, German, history, mathematics, music history and literature, philosophy, political science, physics, psychology, sociology, Spanish, theatre and film history and appreciation, zoology.

2. No more than three hours of internship credit may be counted within the 125 hours required for graduation.

Major in Graphic Communications
Bachelor of Science

General Education Requirements: 
Refer to index for General Education Curriculum for Baccalaureate Degrees 46-49

Major Requirements:  
Sem. Hrs.
GCCM 1613, Graphic Communications Systems 3
GCCM 1813, Introduction to Digital Publishing 3
GCCM 2673, Digital Prepress Workflow and File Creation 3
GCCM 3003, Internship 3
GCCM 3043, Photography 3
GCCM 3063, Graphic Production Systems 3
GCCM 3073, Desktop Publishing 3
RTV 4363, Multimedia Production Techniques 3
GCCM 3733, Internet Communications 3
GCCM 4613, Post Press and Distribution Management 3
GCCM 4623, Graphic Communications Estimating and Scheduling 3
GCCM 4643, Graphic Communications Management Seminar 3
GCCM 4683, Graphic Publication Production 3
GCCM 4783, Electronic Innovations in Graphic Communications 3

42

Electives:  
(9 hours must be from the Liberal Arts & Sciences area) 36

Total 124

Minor in Journalism  
Sem. Hrs.
JOUR 2003, News Writing 3
Lower level journalism elective 3
12 hours upper-level journalism or public relations courses 12

Total 18

Minor in Graphic Communications  
Sem. Hrs.
GCCM 1613, Graphic Communications Systems 3
15 hours (12 of which must be upper level GCCM courses) 15

Total 18
Department of Radio-Television

Assistant Professor Richard Carvell, Chair; Professors Amienyi, Jackson-Pitts; Assistant Professor Zing; Instructors Doyle, Franklin, Pillow, Roberts, Rogers, Zeng.

The program in radio and television offers emphases in broadcast journalism, electronic media sales and promotion, and production, which has options in video/audio or new media. The program is designed to provide the practical and theoretical knowledge necessary for those who would pursue careers in the broadcast, cable, digital/interactive media and related industries and for those who plan graduate work in communications.

Major in Radio-Television
Bachelor of Science

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

College Core Requirements:

RTV 1003, Mass Communications in Modern Society
RTV 2003, News Writing
RTV 4073, Communications Law & Ethics

Department Core Requirements:

RTV 2024, Audio Production
RTV 3024, Video Production
RTV 3034, Video Post Production
RTV 3363, Communications Research
RTV 4313, Electronic Media Management

Emphasis Area: (select one of the three emphases)

Broadcast Journalism

RTV 3003, Reporting for the Electronic Media
RTV 3103, Electronic News Gathering
RTV 4323, News Production and Performance
Two of the following
RTV 3343, Advanced Radio Practicum
RTV/JOUR 4053, Public Affairs Reporting
RTV 4443, Internship
JOUR 4083, Sports, Business & Opinion Writing
Electives in Departments of Radio-Television and Journalism

Minor in Radio-Television

Electives:

(Number of hours determined by emphasis area and minor selected)
Total

Production—Video/Audio Option

Sem. Hrs.
RTV 3013, Promotional Writing for the Electronic Media
RTV 3333, Radio-Television Advertising and Sales
PR 3003, Principles of Public Relations
RTV 3343, Advanced Radio Practicum
JOUR 4083, Media Planning
JOUR 4113, Integrated Communications Strategies
RTV 4443, Internship
Electives in Departments of Radio-Television and Journalism

Minor outside the College of Communications (must be approved by adviser)

TOTAL MAJOR HOURS

Production—New Media Option

Sem. Hrs.
RTV 3013, Promotional Writing for the Electronic Media
RTV 3333, Radio-Television Advertising and Sales
PR 3003, Principles of Public Relations
RTV 3343, Advanced Radio Practicum
JOUR 4083, Media Planning
JOUR 4113, Integrated Communications Strategies
RTV 4443, Internship
Electives in Departments of Radio-Television and Journalism

Minor outside the College of Communications (must be approved by adviser)

TOTAL MAJOR HOURS

Electives:

(Number of hours determined by emphasis area and minor selected)
Total

NOTES: 1. Areas within the liberal arts and sciences include art history, biology, botany, chemistry, computer science, economics, English, entomology, French, geography, geology, German, history, mathematics, music history and literature, philosophy, political science, physics, psychology, sociology, Spanish, theatre and film history and appreciation, zoology.

2. No more than three hours of internship credit may be counted within the 125 hours required for graduation.

Department of Speech Communication

Associate Professor Dennis White, Chair; Professor Baglan; Assistant Professors Clark, Hayes; Instructor Harper, Mack

The Department of Speech Communication offers work leading to a Bachelor of Arts in speech communication or to a Bachelor of Science in Education in speech communication and theatre (offered jointly with the Department of Theatre). The department emphasizes oral communication as an essential process in society, as a means of personal expression and development, and as a major means in which students adjust to their society. The department provides courses that stress the theoretical and functional aspects of oral communication.
The department offers practical experience through a nationally ranked forensics and debate program, a student community outreach program, and a college forensics tournament. Through judicious selection of electives, both within the department and outside, majors may prepare themselves for a wide range of careers. Students pursue programs to (1) provide the foundation for graduate work, with college teaching and research as an ultimate goal; (2) prepare for careers in community, educational, government, medical and industrial communication; (3) provide foundations for post-graduate study in law or theology; and (4) provide a traditional education in the liberal arts.

**Major in Speech Communication**

**Bachelor of Arts**

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees ................................. 46-49

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCOM 1203</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 2203</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1211</td>
<td>Forensic Activities I</td>
<td>1</td>
</tr>
<tr>
<td>SCOM 2243</td>
<td>Principles of Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 3243</td>
<td>Principles of Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 3363</td>
<td>Human Communication Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 2253</td>
<td>Principles of Listening</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4203</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4243</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4253</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4263</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4263</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total 34**

**Language-Quantitative Block Option:**

Sem. Hrs.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Foreign Language</td>
<td>12</td>
</tr>
<tr>
<td>B. Quantitative Block</td>
<td>12</td>
</tr>
</tbody>
</table>

**Minor:**

Minor must be approved by adviser and shall not include courses taken to fulfill General Education requirements ..................................................... 18-24

**Electives**

Sem. Hrs.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-14</td>
<td></td>
</tr>
</tbody>
</table>

**Total 124**

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**Major in Speech Communication and Theatre Arts**

**Bachelor of Science in Education**

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees ................................................. 46-49

**Specific General Education Requirements:**

Students with this major must take the following:

- MUS 2503, Fine Arts-Musical
- ART 2503, Fine Arts-Visual
- PSY 2013, Introduction to Psychology
- HIST 2763, The United States To 1876, OR HIST 2773, The United States Since 1876
- POSC 2103, Introduction to United States Government

**Major Requirements:**

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1213</td>
<td>Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2203</td>
<td>Voice Techniques for Theatre; OR</td>
<td>3</td>
</tr>
<tr>
<td>CD 1103</td>
<td>Voice and Articulation Improvements</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2223</td>
<td>Fundamentals of Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2233</td>
<td>Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1203</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1203</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 2243</td>
<td>Principles of Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 3243</td>
<td>Principles of Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 3253</td>
<td>Principles of Listening</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4203</td>
<td>Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4243</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1211</td>
<td>Forensic Activities I</td>
<td>2</td>
</tr>
<tr>
<td>SCOM 2221</td>
<td>Forensic Activities III</td>
<td>1</td>
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</table>

**Total 46**

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**Professional Education Requirements:**

<table>
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<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>PSY 3703</td>
<td>3</td>
</tr>
<tr>
<td>SCED 2514</td>
<td>4</td>
</tr>
<tr>
<td>SCED 3515</td>
<td>5</td>
</tr>
<tr>
<td>EDS 4713</td>
<td>3</td>
</tr>
<tr>
<td>STSP 4826</td>
<td>12</td>
</tr>
<tr>
<td>SE 3643</td>
<td>3</td>
</tr>
</tbody>
</table>

* See Bachelor of Science in Education degree-College of Education

**Graduation Requirement**

All teacher education candidates (BSE) must take and pass the appropriate Praxis II Senior Exam for Drama/Speech and report their results to the Office of the Chair, Speech Communication, prior to graduation. Additionally, teacher education students must have a minimum overall GPA of 2.50 to be eligible.

**Additional General Requirements for Teacher Education:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 2513</td>
<td>3</td>
</tr>
<tr>
<td>PE Activity Elective</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total 4**

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**Minor in Speech Communication**

Sem. Hrs.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCOM 1203</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 2233</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 2243</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 3243</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4203</td>
<td>3</td>
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<tr>
<td>SCOM 4243</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4263</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total 21**

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**COLLEGE OF COMMUNICATIONS COURSE DESCRIPTIONS**

**DEPARTMENT OF JOURNALISM**

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.
Graphic Communications (GCOM) (Special course fees may apply.)

1613. Graphic Communication Systems An exploration of the industrial materials and processes utilized for graphic preparation and reproduction including lithography, gravure, flexography, screen printing, and non-impact printing processes. Classroom, industrial visitation and laboratory format. (F, S)

1813. Introduction to Digital Publishing Theory and practice in digital publishing with emphasis in acquiring digital text and images while using current software to prepare the required files and digital documents for publishing to a newspaper printing press, the World Wide Web, individual CDs, digital color proofs, and other current media. (F)

2673. Digital Prepress Workflow and File Creation Comprehensive overview of the major pre-publishing workflow elements and the options for their interrelationships. (F)

3003. Internship Students will be required to work and study in an approved position. (Prerequisite: GCOM 1613, and consent of department chair and printing faculty). (F, S, SU)

3603. Graphic Production Systems An exploration of the digital, offset, gravure, flexography and screen printing processes of graphic reproduction and publishing. Critical aspects unique to each process will be studies including copy preparation, image carriers, image transfer systems, substrates, inks/toners and quality control. Each process will be studies through classroom experiences, industrial visitations and/or laboratory experiences. (Prerequisite: GCOM 1613). (F)

4613. Post Press and Distribution Management Study of functions occurring after the material has been imaged, including case, mechanical and perfect binding and finishing operations. Additional components include web finishing, selective binding, inkjet imaging, and postal regulations and distribution (Prerequisite: GCOM 1613). (F)

4623. Graphic Communications Estimating and Scheduling Focus on establishing cost centers and budgeted hourly rates, estimating and pricing materials and buyouts, and analyzing and communicating production schemes for graphic reproduction (Prerequisites: GCOM 3603). (S)

4643. Graphic Communications Management Seminar Management issues specific to the graphic communications industry including quality assurance, sales and customer relations, marketing, scheduling production, laws, ethics, and government interface. Lecture based on course with industry visitations (Prerequisites: GCOM 3603). (F)

4683. Graphic Publication Production Opportunity for students to plan production, determine related costs, coordinate and perform production, control quality and develop a portfolio of a complete production experience. Lecture, industry visitations and laboratory format (Prerequisites: GCOM 1613 and GCOM 3803). (F)

4783. Electronic Innovations in Graphic Communications Course designed to cover the concepts of digital imagery and output, on-demand printing, pagination, multimedia production, data bases, interactive design, electronic sales and customer relations. Classroom, laboratory and industry visitation experiences (Prerequisites: GCOM 1613, RTV 4363 and permission of instructor). (F -odd)

4881-2. (4 088 1-2) Special Problems in Printing Designed to provide individually directed research in some special area of printing for seniors. Should be arranged in consultation with a professor in the specified field of interest prior to the semester of study and approved by the department chair. A written paper is required. (F, S, SU)

Journalism (JOUR)

1003. Mass Communications in Modern Society Survey of the varied fields of mass communications, with emphasis on their functions, operations, and problems in a democracy (Also listed as RTV 1003). (F, S, SU)

2003. News Writing Basic news writing for print, broadcast and Internet. Course includes attention to news style and grammar. Word processing skills required. Prerequisite: "C" or better in ENG 1003. (Also listed as RTV 2003) (F, S, SU)

2013. News Reporting Techniques of news gathering, with practical experience in interviewing and writing for publication. Requires three hours of laboratory work per week. Prerequisite: C or better in JOUR 2003. (F, S)

3001. Contemporary Events and the Mass Media Weekly review of news events and the mass media's coverage of them. (F, S)

3003. Feature and Magazine Article Writing Methods of gathering material for feature stories through interviews, research, and observation; practice in writing the article. Requires three hours of laboratory work per week. Prerequisite: JOUR 2003. (F)

3023. Principles of Advertising Advertising history, theory and practice, including traditional and non-traditional media. (F, S)

3033. Advertising Copywriting Principles and practices of writing mass media advertising. Prerequisites: JOUR 2003 and JOUR 3023. (S)

3043. Photography Elements of composition, camera, darkroom techniques and digital photography. Requires three hours of laboratory work per week. (Lab fee: $10.00) (F, S, SU)

3051. Advanced Photography Lab Individual photography projects. Requires three hours of laboratory work per week. Prerequisite: JOUR 3043, consent of instructor and project proposal. (Special course fee: $15.00) (F, S)

3063. News Editing Copyediting, rewriting news stories, writing headlines, with use of personal computer. Prerequisite: JOUR 2013. (F, S)

3073. News Design Principles of visual communication; digital and print media design, elements and practices of digital and press publication, media economic theory and practice. Prerequisite: JOUR 2013. (S)

3083. History of the Mass Media History of the mass media (newspapers, magazines, radio, television and new technology) from colonial days to the present. (S)

3093. Photojournalism Practical experience with digital photography and layout for print media; use of image editing software, color theory, scanning input and output devices. Students required to submit projects for student publications and cover news events. Requires three hours of laboratory work per week. Prerequisites: JOUR 2003 and JOUR 3043 or consent of instructor. (Special course fee: $10.00) (S)

3363. Communications Research Study and use of research tools and theories available for mass communications problem solving. Emphasis will be on library research, theory approaches, and applied research as applied to the media. (S)

3673. Desktop Publishing and Publication Design Tools of electronic publishing and publication design are reviewed using desktop publishing software packages and computers. (F, S, SU)

4003. Media Planning This course covers the strategic and creative selection of media vehicles, scheduling of media messages, and purchase of media time and space to achieve advertising campaign objectives. (F)
4013. **Advanced Photojournalism** Digital photojournalism with emphasis on ethics and role of photojournalist in society. Students are expected to prepare a portfolio of work upon completion of the course. Six hours of laboratory work per week. Prerequisite: JOUR 3093. (Special course fee: $25.00) . (F)

4033. **Advertising Case Studies and Campaigns** Study of recent advertising cases and campaigns involving business, industry, institutions and government. Students create a comprehensive advertising campaign for a given client. Prerequisite: JOUR 3033 and JOUR 3963. (S)

4043. **Studies in Newspaper Management** Study of business and editorial management of the print media, including newspaper organization, publishing policies and economics, print media technology, circulation and promotional problems. (F - even)

4053. **Public Affairs Reporting** Instruction and practice in gathering material and writing stories on public affairs; emphasis on courts and government. Requires three hours of laboratory work per week. Prerequisite: C or better in JOUR 2013 or consent of instructor. (S)

4063. **Internship** Supervised work for a newspaper or other suitable publication. Prerequisite: consent of the department chair. (SU)

4073. **Communications Law and Ethics** Legal and ethical limitations and privileges affecting the mass media. (Also listed as RTV 4073) (F, S, SU)

4083. **Sports, Business and Opinion Writing** Techniques of newswriting and information gathering in business and sports reporting. Techniques of opinion writing. Prerequisite: C or better in JOUR 2013 or consent of instructor or department chair. (S - odd)

4113. **Integrated Communications Strategies** Focuses on the strategic integration of various channels and methods of communications for the purpose of delivering key messages to diverse target audiences in order to elicit specific responses, create a dialogue and engender relationship-building. Prerequisite: JOUR 3023, PR 3003, or MKTG 3013. (S)

4232. **Race, Gender and Media** Survey of the interface between Americans of color, women and the mass media in the United States.

4373. **Internet Communications** Internet Communications provides students with a thorough understanding and practice in the use of the Information Superhighway. The course will also look at new opportunities for communications professionals. Prerequisite: Basic computer competency. (F)

4881-2. **Special Problems in Journalism** Prerequisite: approval of department chair and faculty. (F, S, SU)

**Public Relations (PR)**

3003. **Principles of Public Relations** Nature and theoretical foundation of public relations; its role in society; practitioners and dynamics of the process. (F, S, SU)

3013. **Public Relations Tools and Techniques** Analysis and application of public relations tools and techniques with an emphasis on public relations writing, specialized publications, and strategy for working with corporate and non-corporate organizations. Prerequisite: JOUR 2003 and PR 3003. (F, S)

4013. **Practicum in Public Relations** Application of public relations skills in supervised work with various businesses, institutions, organizations and social agencies. Prerequisite: C or better in PR 3003 and consent of instructor. (F, S)

4023. **Public Opinion, Propaganda and the Mass Media** Survey of public opinion formation and change, with special attention to the role of the mass media in the creation and use of public opinion and propaganda. (F)

4033. **Public Relations Case Studies and Campaigns** Study of recent public relations cases and campaigns involving business, industry, institutions, and government. Students create a comprehensive public relations campaign for a given client. Prerequisites: JOUR 3363 and PR 3013. (S)

4603. **Crisis Communication** An investigation of communications during crises, focusing on public relations, advertising and other persuasive efforts by institutions, corporations, movement leaders, and citizens to describe, persuade and shape human interactions with their environment during a crisis. (F)

(Special Fees: Photography—$10; Advanced Photography Lab—$15; Photojournalism—$10; Advanced Photojournalism—$25)

**DEPARTMENT OF RADIO-TELEVISION**

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

**Radio-Television (RTV) (Special course fees may apply.)**

1003. **Mass Communications in Modern Society** Survey of the various fields of mass communications, with emphasis on their functions, operations, and problems in a democracy. (Also listed as JOUR 1003) (F, S, SU)

2003. **News Writing** Basic news writing for print, broadcast, and Internet. Course includes attention to news style and grammar. Prerequisite: "C" or better in ENG 1003. Word processing skills required. Prerequisite: "C" or better in ENG 1003. (Also listed as JOUR 2003) (F, S, SU)

2024. **Audio Production with Lab** Foundations of sound, audio theory, and audio equipment; planning audio aspects of radio and television broadcasts and Webcasts; analog and digital recording, editing and post-production techniques involving voice, music, and sound effects. (F, S)

3003. **Reporting for the Electronic Media** Fundamentals of gathering, writing, and reporting for electronic media, specifically radio. Focus on story development, interviewing, and analysis. The emphasis builds on the foundation set in RTV/JOUR 2003 and adds practical applications of audio electronic news gathering. Prerequisite: "C" or better in RTV 2003. Word processing skills required. (F, S)

3013. **Promotional Writing for Electronic and Digital Media** Methods and techniques of writing non-news radio and television scripts and web content. Emphasis on commercials and program continuity, promotional announcements, public service announcements. Some attention to teleplay, screenplay and corporate video techniques. Word processing skills required.

3024. **Video Production with Lab** A basic course in studio and field production for video and television. Emphasis is placed on techniques for short or long form production, studio and field equipment operation, and production. Lab TBA. (F, S, SU)
3034. Video Post Production with Lab A basic course in post-production for video and television. Emphasis is placed on editing and post-production techniques for TV/video, interactive multimedia, and the World Wide Web. Lab TBA. (F, S, SU)

3103. Electronic News Gathering Advanced reporting techniques, story development process and tools needed to interview and write, report and edit video news stories. Stories produced will be used to enhance newscast development. Prerequisite: "C" or better in RTV 3003, RTV 3024, and RTV 3034, or consent of instructor. (F, S)

3303. The Development of the Motion Picture A study of the development of motion picture theory, technology, and technique. (D)

3333. Radio-Television Advertising and Sales Study of the structure of the electronic media advertising industry, as well as the basic methods of selling for old and new electronic media. Sales affiliation with ASU-TV. (F, SU)

3343. Advanced Radio Practicum Special practices in radio station operation, with special assignments relative to operation of KASU. (F, S, SU)

3363. Communications Research Study and use of research tools and theories available for mass communications problem solving. Emphasis will be on library research, theory approaches, and applied research as applied to the media. (S)

3673. Seminar in Digital Media and Design A study of the development and impact of digital media. Also listed as ART 3673. (S)

4053. Public Affairs Reporting for Electronic Journalism Coverage of municipal and county government agencies, public school boards, community planning and development agencies, and special events within the local community for the electronic media. Prerequisite: RTV 3003. (S)

4063. International Communication Seminar Critical discussion and analyses of the social, cultural, economic, political, technological and institutional forces governing the exchange of mediated information across national frontiers. (S)

4073. Communications Law and Ethics Legal and ethical limitations and privileges affecting the mass media. (Also listed as JOUR 4073) (F) (S) (SU)

4213. Programs and Audiences Study of broadcast and cable programming, including programming strategies and the role of audiences in program scheduling. Topics include local and syndicated program sources, ratings, program genres, and audience behavior. Prerequisite: RTV 3363 or consent of instructor. (F)

4313. Electronic Media Management A study of the elements, problems and responsibilities in broadcast station and cable management. Emphasis is placed on an examination of the management function as it relates to the various operating divisions of broadcast stations and single or multi-system cable organizations and to applicable regulatory procedures and requirements of the Federal Communications Commission and other regulatory groups. (F)

4323. News Production and Performance Experience in producing news programs. Students exercise judgment and make editorial decisions about news content and program continuity. Experience in verbal and non-verbal communication relative to on-camera delivery. Prerequisites: RTV 3103 or consent of instructor. (F, S)

4333. Special Topics Seminar A seminar that addresses current topics in the area of communication. (F)

4353. Corporate Media Production Study of the field and function of media production for business and non-profit organizations. The course addresses client contact, budgeting, analysis of production problems, design and writing of scripts for promotion, training and news in corporate and industrial settings. Prerequisites: RTV 3013, RTV 3024 and RTV 3034. (F)

4363. Multimedia Production Techniques Introductory course in multimedia concepts, media elements, platforms, and production. Training in the use of computer-based multimedia authoring systems, hardware and software for media creation/acquisition, and multimedia delivery systems.

4373. Internet Communications Internet Communications provides students with a thorough understanding and practice in the use of the Information Superhighway. The course will also look at new opportunities for communications professionals. Prerequisite: Basic computer competency. (F)

4383. Advanced Television Production Practice in methods and procedures of producing studio and remote program content for ASU-TV. This may include: athletic events, campus forums, concerts, newscasts, spelling bees, telethons, etc. May be repeated for a maximum total of six credit hours. (F, S)

4443. Internship Supervised work for a radio or television station, cable system or allied industry. Offered only during the summer. Prerequisite: Consent of Chairman of Department of Radio-Television. (SU)

4673. Advanced Applications in Digital Media and Design Advanced practice in digital content development and distribution. Application of principles of design, operations, programming, production and management in a multimedia setting. Application of media practices is directed toward the Internet, interactive media, campus and off-campus clients. (F)

4881-2-3. Special Problems in Electronic Media Prerequisite: approval of Department Chairman and faculty. (F, S, SU)

(Special Fees: Video Post Production—$25; News Production and Performance—$25; Corporate Media Production—$40)

DEPARTMENT OF SPEECH COMMUNICATION

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Speech Communication (SCOM)

1203. Oral Communication Develop a proficiency in oral communication. Prerequisite for all other speech communication courses, except SCOM 3203, Business and Professional Speech Communication. (F, S, SU)

1211. Forensic Activities I Practical debate and competitive speaking. (F, S)

1212. Forensic Activities II Practical debate and competitive speaking. (F, S)

2203. Introduction to Human Communication An introduction to and an overview of speech communication, including concepts and applications. Prerequisite: SCOM 1203 Oral Communication. (D)

2211. Forensic Activities III Practical debate and competitive speaking. (F, S)

2221. Forensic Activities IV Practical debate and competitive speaking. (F, S)

2233. Oral Interpretation Theory and practice of reading aloud, with emphasis on the emotional and intellectual content of literature. (F)

2243. Principles of Argumentation Principles of logical reasoning used in advocacy, analysis, use of evidence, inductive and deductive reasoning. (S -even)
3203. **Business and Professional Speech Communication**  Speech communication needs of business and professional people. (F, S)

3211. **Forensic Activities V**  Practical debate and competitive speaking. (F, S)

3221. **Forensic Activities VI**  Practical debate and competitive speaking. (F, S)

3233. **Advanced Oral Interpretation**  Continuation of SCOM 2233. (S)

3243. **Principles of Persuasion**  Theory and practice of persuasion as an instrument in motivating human conduct. (F)

3253. **Principles of Listening**  Principles of listening in the communication process; emphasis on listening improvement. (F -even)

3363. **Human Communication Research Methods**  Study of both qualitative and quantitative methods used in communication research. (S)

3373. **Gender Communication**  Study of the interrelationship between communication and gender in various contexts. (S-odd)

4203. **Small Group Communication**  Group and conference techniques for classroom, business, and professional situations. (S, SU)

4211. **Forensic Activities VII**  Practical debate and competitive speaking. (F, S)

4221. **Forensic Activities VIII**  Practical debate and competitive speaking. (F, S)

4233. **Storytelling for Children**  Principles of storytelling, oral reports, choral reading, and listening improvement. (SU)

4243. **Interpersonal Communication**  Emphasis on increasing the student's capacity for openness, sensitivity, and objective appraisal. (F, SU)

4253. **Intercultural Communication**  Identification of barriers and breakdowns to communication among cultures. (S)

4263. **Organizational Communication**  Dynamics and theories of communication within an organization. (S -even)

4283. **Internship in Speech Communication**  Combines relevant work experience with classroom theory. (D)

4293. **History and Criticism of American Public Address**  Historical background and significance of leading orators in America. (S -odd)

4311-2. **Special Problem: Varying Topics**  Prerequisite: Permission of instructor. (may be repeated twice with different topics) (D)

4323. **Communication in Personal Relationships**  The course covers interpersonal communication in the context of personal relationships such as romantic relationships, friendships, professional relationships, and family relationships. (F -odd)

4403. **Seminar in Health Communication**  Study of the major cultural, interpersonal, and public communication issues affecting health communication. (S -odd)

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## College of Education

**Dean, John Beineke**  
Associate Dean, Don Maness

The faculty of the College of Education teach, conduct research, and provide community and professional service in the areas of pedagogy, behavioral sciences, physical education and sport science, and advanced education-related professional studies. Instructional programs are offered within a student-centered organizational context that values diversity, innovation, and professional reflection; these programs are delivered by a faculty committed to the beliefs that (a) every student can learn, and (b) teachers themselves model commitment to learning by visibly demonstrating their own continuing personal/professional growth.

### Administrative Structure

The following units are administratively within the College of Education:

- ASU Childhood Services
- Center for Excellence in Education
- Department of Psychology and Counseling
- Department of Educational Leadership, Curriculum, and Special Education
- Department of Teacher Education
- Department of Health, Physical Education, and Sport Sciences
- Professional Education Programs

### Teacher Education Program

The College of Education is the unit responsible for the teacher education program in cooperation with other colleges within the university. The teacher education program is coordinated by the College of Education and the interdisciplinary Council on Professional Education. It is strongly recommended that students interested in teacher education and teacher education majors consult their adviser frequently.

The Bachelor of Science in Education degree is offered in the following majors:

- Agriculture Education (BSA)
- Art
- Business Education
- Early Childhood Education (P-4)
- English
- French
- General Science
- Music (BME)
- Physical Education
- Social Science
- Spanish
- Speech Communication and Theatre
- Biology
- Chemistry
- Physics

The Title II Teacher Education Report Card was enacted by the United States Congress in 1998. Accountability measures for new teachers, which include standardized test scores and other information about the institution's teacher education program, are a part of the institutional and state reports mandated by this legislation. Institutions are required to report this information through publications such as school catalogs and promotional materials sent to prospective students, secondary guidance counselors, and potential employers of their graduates. With increased demands by the public for improved schools and increased student achievement, the knowledge, skills, and dispositions of teachers are central to the success of all students. One component of all teacher education programs is standardized tests. The PRAXIS I test assesses basic computation and literacy skills. The PRAXIS II assesses professional teaching knowledge and academic content knowledge. Below are the PRAXIS I and PRAXIS II scores for the Arkansas State University students during the 2001-2002 academic year. Additional information about teacher education programs at Arkansas State University may be accessed at http://education.astate.edu.
PROFESSIONAL EDUCATION REQUIREMENTS FOR SECONDARY MAJORS

General and academic requirements for majors in the secondary teacher education program are listed under the various colleges in this Bulletin.

SCED 2514, Introduction to Secondary Teaching ........................................ 4 sem. hrs.
PSY 3703, Educational Psychology ........................................................... 3 sem. hrs.
SE 3643, The Exceptional Student in the Regular Classroom .................. 3 sem. hrs.

Admission to the Teacher Education Program is a prerequisite to enrollment in the following courses:

SCED 3515, Performance Based Instructional Design ............................. 5 sem hrs.
SCED 4713, Educational Measurement with Computer Applications .......... 3 sem. hrs.
ED___ 45__ 3, Methods and Materials for Teaching in the Secondary School ................................................................. 3 sem. hrs.

Professional Semester:
During the professional semester the student will be required to spend sixteen full weeks in a North Central Association approved cooperating school—for which the student receives twelve (12) semester hours of credit.

TI__ 4826, Teaching Internship in the Secondary School ......................... 12 sem. hrs.
TOTAL ........................................................................................................... 33 sem. hrs.

TRANSPORTATION FOR FIELD EXPERIENCES

Students are required to provide their own transportation to school field experiences in the Jonesboro area and surrounding counties. When determining educational costs, students must consider additional expenses for these experiences.

GRADUATION REQUIREMENT

Teacher education students (BSA-Agriculture Education; BME; and BSE) must have a minimum overall GPA of 2.50 to be eligible for graduation. Some Teacher Education programs will require students to take the PRAXIS II examination(s) as a graduation requirement. Check with your academic adviser to determine your PRAXIS II requirement(s).

However, students who wish to secure an Arkansas teaching license are required to take and pass the PRAXIS II examination(s). Therefore, all students are strongly encouraged to take the PRAXIS II examination(s) prior to graduation. Check with your adviser to determine your PRAXIS II requirement(s).


department provides advanced educational psychology as a core course for MSE majors as Emerging Professionals.

Teacher Education Graduates

<table>
<thead>
<tr>
<th>Major Categories</th>
<th>ASU Pass Rate</th>
<th>State Pass Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Skills [PRAXIS I]</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Professional Knowledge* [PRAXIS II]</td>
<td>88%</td>
<td>96%</td>
</tr>
<tr>
<td>Academic Content Area* [PRAXIS II]</td>
<td>91%</td>
<td>98%</td>
</tr>
<tr>
<td>Totals</td>
<td>96%</td>
<td>99%</td>
</tr>
</tbody>
</table>

Department of Psychology and Counseling

Loretta Neil McGregor, Chair; Professors Howerton, Johnson, Jones, Saario; Associate Professors Christenberry, Biondolillo, Hall, Ochs, Peck, Yanowitz; Assistant Professors Claxton, Easton, Khramtsova, Pearce, Peck

The Department of Psychology and Counseling is committed to serving the university, the profession, and the public by contributing to excellence in education, high professional standards for service delivery, and consumer advocacy. The department is also committed to research and scholarly activities to expand the academic knowledge base and to improve the quality of professional services.

The primary mission of the department is to teach basic principles underlying psychology as a behavioral science and to prepare graduate-level students to become psychological-counseling professional service providers. At the baccalaureate level, there is a major and a minor in psychology, service courses for Professionally Emerging Teachers and other programs including general education. At the graduate level, the program prepares professional service personnel at the master and specialist degree levels as school, community, and rehabilitation counselors; educational and psychological examiners; and college student personnel specialists. The department also provides advanced educational psychology as a core course for MSE majors as Emerging Professionals.

Major in Psychology

Bachelor of Science

General Education Requirements:
Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees .............................................. 46-49

Major Requirements:
Sem. Hrs.
A course taken to satisfy requirements for a minor and/or a second major cannot also be used to satisfy total credit hour requirements in the psychology major.

PSY 2023, Contemporary Psychology ................................. 3
PSY 3103 and PSY 3101, Quantitative Methods for Behavioral Sciences and Quantitative Methods Laboratory ....... 4
PSY 3123 and PSY 3121, Experimental Psychology and Experimental Psychology Laboratory ............................ 4
PSY 3823, History of Psychology ................................. 3
One of the following courses: ........................................ 3
PSY 3151, Human Research .............................................. 3
One of the following courses: ........................................... 3
PSY 3403, Child Psychology ........................................ 3
PSY 3413, Adolescent Psychology ................................ 3
PSY 3433, Developmental Psychology .............................. 3
Two of the following courses: .............................................. 6
PSY 3003, Motivation ...................................................... 3
PSY 3433, Physiological Psychology ................................ 3
PSY 4334, Learning Processes .............................................. 3
PSY 4363, Cognitive Psychology ........................................ 3
Two of the following courses: .............................................. 6
PSY 3823, Introduction to Social Psychology ....................... 3
PSY 4533, Abnormal Psychology ........................................... 3
PSY 4543, Personality Development ......................................
Upper Division Psychology Electives ........................................ 9
Area of Concentration or Minor (approved by adviser) .............. 18-24
TOTAL ........................................................................................................... 59-65

Electives:
Sem. Hrs.
Electives ........................................................................................................... 10-19
TOTAL ........................................................................................................... 124
Department of Educational Leadership, Curriculum, and Special Education

Professor Mitchell Holifield, Chair; Professors Beineke, Cline, Cox, Dickinson, Foldesey, Justen; Associate Professors Bradley, Holman, McBride; Assistant Professors Bonneau, Campbell, Henley, Holifield, Lamkin, Lamb-Milligan, Maness, Nichols, Saleh

The mission of the Department of Educational Leadership, Curriculum, and Special Education is to provide graduate programs for the preparation of school administrators, curriculum specialists and special educators as well as to provide leadership and coordination to the preparatory graduate degree program for community college instructors.

Teaching excellence is the focus of the department, and faculty performance is evaluated regularly. The department encourages and supports faculty involvement in providing professional services to educationally related systems and agencies, and it endorses the use of these involvements in enhancing classroom experiences. The department stresses program contributions of a faculty active in the pursuit and dissemination of the results of educational research.

Endorsement in Special Education

Arkansas teacher licensure standards require a regular education degree as a prerequisite for endorsement in special education. Students who wish to teach special education preschool through grade 4 are required to complete the preparation in special education P-4 course. Arkansas teacher licensure standards require that students who wish to teach special education programs at the grades 4-12 must complete requirements for either a regular education degree 4-12 or a regular education degree 7-12 teaching license. Credentials to Teach Special Education are added to a General Education Teaching License, this is called an endorsement. An endorsement can be added through an approved program of study or through completion of a dual certification program.

Department of Teacher Education

Associate Professor Veda McClain, Chair; Professors Gilbert, Lawler-Prince, Towery; Associate Professors Grymes, Smith, Trusock; Assistant Professors Campbell, Clark, Davidson, Fiala, Johnson, McJunkin, McLain, Melinsky, Meeks, Owens, Ross, Skinner, Stepka, Williams; Instructors Bacot, Donaghy, Harrington, Jones

The mission of the Department of Teacher Education encompasses three areas: teaching, service, and research. The major purpose of the department is teaching, which contributes significantly toward the accomplishment of the department's primary goals: preparing Professionally Emerging Teachers and Emerging Professionals in the fields of early childhood education, elementary education, middle grades education, secondary education, and special education. The department also offers a graduate program in early childhood education (see Graduate Bulletin). A commitment is made to students in the degree programs as faculty assist individuals through a well-defined advisement process. Another function of the department is service, consultation to public and private schools, to federal and state agencies and programs, and to professional organizations. The area of research and scholarly pursuits completes the mission of the department and exists for the purpose of defining problems and identifying solutions that contribute to the improvement of specific educational and pedagogical issues and concerns.

Minor in Psychology

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective in Psychology (in addition to PSY 2013)</td>
<td>3</td>
</tr>
<tr>
<td>Upper level elective in Psychology</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Transfer Credit Policy

Courses completed at two-year institutions will not be accepted as transfer credits for upper level specialty area and professional studies courses numbered 3000 and above. Transfer credit in the major from any institution is subject to approval by the Department of Teacher Education. Reviews must be requested in a timely manner so as to allow for adequate review by the department. Compatibility of course content, length of time since course completion, and adequacy of relevant field experiences will form but not be limited to the criteria for judging acceptance.

Acceptance of Work from Previous Degrees or Enrollments

Course work in the major field completed more than seven (7) years prior to the student's enrollment in either the BSE in Early Childhood Education or the BSE in Middle Level Education will be reviewed for relevance and may not be acceptable to completion of the BSE degree.

Major in Early Care and Education

Bachelor of Science

Minor in Family Studies

Department of Teacher Education

General Education Requirements:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>6</td>
</tr>
<tr>
<td>ENG 1003, 1013 Composition I &amp; II</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023, College Algebra</td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>SCOM 1203, Oral Communications</td>
<td></td>
</tr>
<tr>
<td>Understanding/Global Issues</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2233, Introduction to Cultural Anthropology OR</td>
<td></td>
</tr>
<tr>
<td>GEOG 2613, Introduction to Geography</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Students must complete three courses from this section. At least one must be a fine arts and at least one must be a humanities course.</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
</tr>
<tr>
<td>MUS 2503 Fine Arts - Music</td>
<td></td>
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<tr>
<td>THEA 2503 Fine Arts - Theatre</td>
<td></td>
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<tr>
<td>ART 2503, Fine Arts - Visual</td>
<td></td>
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<tr>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>ENG 2003, Intro to Literature of the Western World I</td>
<td>9</td>
</tr>
<tr>
<td>ENG 2013, Intro to Literature of the Western World II</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2103, Introduction to US Government</td>
<td></td>
</tr>
<tr>
<td>PSY 2013, Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 2213, Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1003, Biological Science AND BIOL 1001, Lab</td>
<td></td>
</tr>
<tr>
<td>PHSC 1203, Physical Science AND PHSC 1201, Lab</td>
<td></td>
</tr>
<tr>
<td>Health and Wellness</td>
<td>4</td>
</tr>
<tr>
<td>PE 1002, Concepts of Fitness</td>
<td>2</td>
</tr>
<tr>
<td>Enhancements</td>
<td></td>
</tr>
<tr>
<td>HIST 2763, US History to 1876 OR</td>
<td></td>
</tr>
<tr>
<td>HIST 2773, US History Since 1876 OR</td>
<td></td>
</tr>
<tr>
<td>as required</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total General Education Hours</strong></td>
<td><strong>46</strong></td>
</tr>
</tbody>
</table>

Interdisciplinary Support:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 3303, Normal Language Development</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3013, Practical Writing</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2523, First Aid and Safety</td>
<td>3</td>
</tr>
</tbody>
</table>
**Bachelor of Science in Education**

**Early Childhood Education**

Bachelor of Science in Education

The following is one suggested sequence in which requirements for the Bachelor of Science in Early Childhood Education may be completed. (Refer to index for developmental courses required for students with lower ACT scores.) Students should consult with their adviser for a plan that best meets individual needs. Many courses have prerequisites identified with the course description; students are responsible for completing the appropriate prerequisite courses.

**Freshman Year—Semester 1**

- ENG 1003
- BIOL 1001 and 1003
- MATH 1023
- CIT 1503

**Freshman Year—Semester 2**

- ENG 1013
- PSYC 1201 and 1203
- SOC 2103
- SCOMM 1203

**Sophomore Year—Semester 1**

- ENG 2003
- HIST 2763 or 2773
- PSYC 2103
-/span 1013

**Sophomore Year—Semester 2**

- ENG 2013
- PSYC 2103
- ANTH 2203 or GEOG 2613
- ECH 2023
- SPAN 1023

**Junior Year—Semester 1**

- NURS 2203
- CD 3303
- PSYC 4023
- HLTH 2523
- SW 3313

**Junior Year—Semester 2**

- ECH 4363

**Senior Year—Semester 1**

- ECH 4603
- ECH 4613
- ELSE 3683
- SOC 3303

**Senior Year—Semester 2**

- ECH 4363

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**Family Studies Minor**

Sem. Hrs.

- SOC 3233, Sociology of Marriage and Family .......................................................... 3
- PSYC 3403, Child Psychology .................................................................................. 3
- SW 3313, Introduction to Child Welfare ..................................................................... 3
- SW 3343, Child Abuse and Neglect ........................................................................ 3
- NURS 2203, Basic Human Nutrition ...................................................................... 3
- ECH 4053, Today’s Families: Interdisciplinary Approaches ...................................... 3

**Total Interdisciplinary Support Hours**

- 24

**Major in Early Childhood Education**

Bachelor of Science in Education

(Preschool - Grade 4 License)

The Arkansas Department of Education has changed to teacher and administrator licenses. These changes affect students entering Arkansas State University beginning in academic year 1997-98. Please consult with your adviser for information as you proceed through your program of studies. Additional information is available in department offices and the Office of the Dean of Education. The department and faculty will work with students on an individual basis to assist them with scheduling. Students are responsible for communicating with their adviser, meeting requirements for graduation is the responsibility of the student (Refer to index for Graduation Requirements).

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees

**Specific General Education Requirements:**

All Early Childhood-Early Childhood majors must take the following:

- ENG 1003, Composition I
- ENG 1013, Composition II
- ENG 2003, Intro to W Lit I, ENG 2013, Intro to W Lit II, PHIL 1103, Intro to Phil (select two)
- BIOL 1001, Laboratory for Biological Science
- BIOL 1003, Biological Science
- ART 2503, Fine Arts-Visual, MUS 2503, Fine Arts Musical, THEA 2203, Fine Arts Theatre (select two)
- MATH 1023, College Algebra
- PHSC 1201, Laboratory for Physical Science
- PHSC 1203, Physical Science
- PSY 2013, Introduction to Psychology
- HIST 1013 or 1023, World Civilization To or Since 1660
- HIST 2763 or 2773, The United States To or Since 1876
- PSYC 2103, Introduction to United States Government
- SCOMM 1203, Oral Communication
- PE 1002, Concepts of Fitness

Enhancement course: ECH 4403, Social Foundations of Education and others as needed

**Specialty Area Requirements:**

Sem. Hrs.

- ARSD 3702, Public School Art for the Classroom Teacher ........................................ 2
- GSP 3203, Science in the Elementary Classroom .................................................... 3
- MATH 2113, Mathematics for Elementary School Teachers I ............................... 3
- MATH 2123, Mathematics for Elementary School Teachers II ............................. 3
- MUED 3612, Music and Methods for the Classroom Teacher ............................... 2
- PE 3802, Physical Education for Teachers of Young Children ............................. 2

**Licensure Requirement:**

Sem. Hrs.

- HIST 3638, History of Arkansas ............................................................................. 3

**Professional Education Requirements:**

Sem. Hrs.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>ECH 3043</td>
<td>Program Development and Management for Early Care and Education Centers</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3053</td>
<td>Curriculum Development in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3063</td>
<td>Individualizing Programs for Children and Families</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3073</td>
<td>Children, Families &amp; Community Relationships: Field Experiences II</td>
<td>3</td>
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<td>ECH 3083</td>
<td>Integration of Technology into the Curriculum</td>
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<td>ECH 4015</td>
<td>Classroom Management</td>
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<tr>
<td>ECH 4023</td>
<td>Methods and Materials of Language Arts and Social Studies</td>
<td>3</td>
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<td>ECH 4033</td>
<td>Methods and Materials of Math and Science</td>
<td>3</td>
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<tr>
<td>ECH 4096</td>
<td>Teaching Internship in Early Childhood Education - Kindergarten</td>
<td>6</td>
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<tr>
<td>ECH 4106</td>
<td>Teaching Internship in the Elementary School—Primary Grades 1-3</td>
<td>6</td>
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<tr>
<td>RDG 3020</td>
<td>Foundations of Reading</td>
<td>3</td>
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<tr>
<td>RDG 4403</td>
<td>Early Literacy: Theory and Practice</td>
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</tbody>
</table>

* Prerequisite: Admission into the Teacher Education Program

**Early Childhood Education**

**Bachelor of Science in Education**

The following is one suggested sequence in which requirements for the Bachelor of Science in Early Childhood Education may be completed. (Refer to index for developmental courses required for students with lower ACT scores.) Students should consult with their advisor for a plan that best meets individual needs. Many courses have prerequisites identified with the course description; students are responsible for completing the appropriate prerequisite courses.

**Freshman Year—Semester 1**

- ENG 1003
- BIOL 1001 and 1003
- MATH 1023
- ART 2503 or MUS 2503 or THEA 2503
- HIST 1013 or HIST 1023

**Sophomore Year—Semester 1**

- ENG 2003, ENG 2013 or PHIL 1103
- SOC 2113 or PSY 213
- PSYC 2103
- MATH 2123
- ECH 2022
- PE 1002

**Junior Year—Semester 1**

- ECH 3023
- RDG 3203
- ECH 3053
- ECH 3063
- MUB 3612
- HIST 3083

**Senior Year—Semester 1**

- ECH 4086
- ECH 4096

**Freshman Year—Semester 2**

- ENG 1013
- GSP 1011 and 1203
- SCOMM 1203
- MATH 2113

**Sophomore Year—Semester 2**

- ENG 2003, ENG 2013 or PHIL 1103
- GSP 2003
- ECH 2013
- ECH 2023
- ECH 3043
- ECH 3053

**Junior Year—Semester 2**

- ECH 3023
- RDG 3203
- ECH 3053
- ECH 3063
- MUB 3612
- HIST 3083

**Senior Year—Semester 2**

- ECH 4086
- ECH 4096

*Prerequisite: Admission to the Teacher Education Program

# Corequisite course

**Major in Early Childhood Education**

**Bachelor of Science in Education with Emphasis in Special Education**

(Preschool - Grade 4 License)

This program will allow student to become certified as a P-4 Early Childhood Teacher and have endorsement in Special Education P-4.

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degree

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ECH 4043</td>
<td>Methods and Materials of Math and Science</td>
<td>3</td>
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<tr>
<td>ECH 4015</td>
<td>Classroom Management</td>
<td>2</td>
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<td>ECH 4023</td>
<td>Methods and Materials of Language Arts and Social Studies</td>
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</tr>
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<td>ECH 4106</td>
<td>Teaching Internship in the Elementary School—Primary Grades 1-3</td>
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<td>RDG 3020</td>
<td>Foundations of Reading</td>
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<td>Early Literacy: Theory and Practice</td>
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* Prerequisite: Admission into the Teacher Education Program

**Specialty Area Requirements:**

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH 2113</td>
<td>Mathematics for Elementary School Teachers I</td>
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<td>MATH 2123</td>
<td>Mathematics for Elementary School Teachers II</td>
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<td>Music and Methods for the Classroom Teacher</td>
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<td>HIST 3038</td>
<td>History of Arkansas</td>
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<td>SCOM 1203</td>
<td>Oral Communication</td>
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**Licensure Requirement:**

Sem. Hrs.

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<td>ELED 2022</td>
<td>Introduction to Elementary School Teaching: Field Experience I</td>
<td>2</td>
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<td>ELED 3003</td>
<td>Human Growth and Learning</td>
<td>3</td>
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<td>ELED 3033</td>
<td>Effective Teaching Strategies</td>
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<td>ELED 3063</td>
<td>Integration of Technology into the Curriculum</td>
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<td>ELED 4033</td>
<td>Behavior Intervention and Consultation</td>
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<td>ECH 4003</td>
<td>Social Foundations of Education</td>
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<td>Foundations of Reading</td>
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<td>Early Literacy: Theory and Practice</td>
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<td>ECH 4033</td>
<td>Educational Assessment and Diagnosis</td>
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<td>PE 1002</td>
<td>Concepts of Fitness</td>
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**Professional Education Requirements:**

Sem. Hrs.

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<td>ECH 4043</td>
<td>Methods of Working with Individuals with Mild Disabilities</td>
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**Major Requirements:**

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<td>ECH 3023</td>
<td>Child Development</td>
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<td>ECH 3043</td>
<td>Exceptional Student in the Regular Classroom</td>
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*Prerequisite: Admission to the Teacher Education Program

#Corequisite course
The Middle-Level Education program is designed to prepare teachers to teach in grades 4-8 as a mathematics and science arts or an English/language arts and social studies specialist and in grades 4-6 as a self-contained generalist. Students should select an area of specialization in consultation with their middle-level academic adviser.

Major in Middle-Level Education Bachelor of Science in Education (Grades 4-8)

The Middle-Level Education program is designed to prepare teachers to teach in grades 4-8 as a mathematics and science or as an English/language arts and social studies specialist and in grades 4-6 as a self-contained generalist. Students should select an area of specialization in consultation with their middle-level academic adviser.
The mission of the Department of Health, Physical Education, and Sport Sciences is threefold. First, to provide curricula and instruction that will enhance the development of physical, mental, social, and emotional qualities essential for living a quality life and encouraging positive health behaviors for all students. Second, to provide quality professional preparation programs in the fields of athletic training, exercise science, health, physical education and sport management that meet appropriate standards. Third, to promote an overall wellness environment for all students and employees of Arkansas State University.

To accomplish its mission, the department places its primary focus on quality teaching. In addition to its emphasis on teaching, the department strives to provide service to the college and the university, to elementary and secondary schools, to the community and the state, and to its related professional organizations and agencies. The department also endeavors to engage in scholarly pursuits that will enhance the professional growth of its faculty and contribute to knowledge about human performance.
Athletic Training Admission Requirements

All candidates for a Bachelor of Science in Athletic Training must obtain official admission to the Athletic Training Program. Students desiring admission to the Athletic Training Program must meet the following criteria:

1. Declared major in Bachelor of Science in Athletic Training.
2. Minimum of 60 semester hours.
3. Minimum GPA of 2.50 overall.
4. Completion of the following courses with a grade of “C” or better in each: CHEM 1011, CHEM 1013, ZOOL 2001, ZOOL 2003, ZOOL 2011, ZOOL 2013, PHYS 2054 or 2133, HP 2013, HLTH 2513, AT 2203, AT 2731, AT 2733, AT 2833
5. Completion of two (2) semesters of directed clinical observation with 50 hours per semester at Arkansas State University and completion of all assigned directed observer proficiencies.
6. Completion of personal interview with program selection committee upon request.
7. Submission of all program application forms to program director.

Candidates for the Athletic Training Program must meet all seven criteria listed above. The number of appointments to the program will vary from year to year depending on space availability. Program application materials must be received by April 1 of each year in order to be considered for fall entry into the Athletic Training Program. Candidates will be notified of their admission status after June 1 of each academic year.

Technical standards for admission to the Athletic Training Program can be found on the program’s website at www.cft.astate.edu/hpess/athletictrainingprogram/atdeqgeo04-05.pdf or in the ASU Athletic Training Handbook.

Prior to taking first clinical experience course the student must hold
1. Professional liability insurance (minimum $2,000,000/4,000,000 coverage)
2. Acceptable immunization status including Hepatitis B and TB screening
3. Completed physical examination form

Athletic Training
Bachelor of Science

Below is the recommended sequence in which requirements for the Bachelor of Science degree in Athletic Training may be completed:

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td><strong>15 semester hours</strong></td>
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<tr>
<td>ENG 1003 Composition I</td>
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<tr>
<td>ZOOL 2001 Lab for Anatomy/Physiology I</td>
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<td>ZOOL 2003 Human Anatomy/Physiology I</td>
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<td>MATH 1023 College Algebra</td>
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<tr>
<td>PE 1002 Concepts of Fitness</td>
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<tr>
<td>General Education (6 hrs.)</td>
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<td><strong>Sophomore Year</strong></td>
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<td><strong>16 semester hours</strong></td>
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<tr>
<td>PHY 2054 General Physics I</td>
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<tr>
<td>PSY 2013 Introduction to Psychology</td>
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<td>CHEM 1011 Lab for General Chemistry I</td>
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<td>CHEM 1013 General Chemistry I</td>
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<tr>
<td>AT 2733 Care and Prev. of Athletic Injuries</td>
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<tr>
<td>ES 3543 Human Anth. and Fund. Motion</td>
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<tr>
<td>AT 2883 Foundations of Athletic Training</td>
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<td><strong>Junior Year</strong></td>
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<td><strong>15 semester hours</strong></td>
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<td>ES 3593 Basic Phys. of Activity</td>
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<tr>
<td>AT 3853 Lab for Ther. Modalities</td>
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<td>AT 3863 Ther. Modalities</td>
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<tr>
<td>AT 3943 Research &amp; Stats in Ex. Science</td>
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<td>AT 3101 Clinical Instruction in AT I</td>
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<td>AT 3111 Clinical Experience in AT I</td>
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<tr>
<td>BIOL 2103 Micro. for NRS and Allied Health</td>
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<tr>
<td>BIOL 2101 Lab for Micro. for NRS and Allied Health</td>
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EFin College Health Promotion Bachelor of Science

General Education Requirements:

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<tr>
<td><strong>15 semester hours</strong></td>
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<tr>
<td>AT 374 Lab for Ther. Exercise</td>
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<td>AT 3743 Therapeutic Exercise</td>
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<td>AT 4273 Athl. Tr. Administration</td>
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<td>AT 4101 Clinical Instruction in AT III</td>
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<td>AT 4111 Clinical Experience in AT III</td>
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<td>ES 4763 Kinesiology</td>
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<td><strong>14 semester hours</strong></td>
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<td>ES 4693 Tech of Strength Tr. &amp; Control</td>
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<td>AT 4743 Athl. Training Seminar</td>
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<td>HLTH 2534 Drug Use and Abuse</td>
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<td>AT 4201 Clinical Instruction in AT IV</td>
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<td>AT 4211 Clinical Experience in AT IV</td>
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<td>General Education (3 hrs.)</td>
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Required Courses for Exercise Science:

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<tbody>
<tr>
<td>SEM 1011 Lab for Gen.Chem</td>
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<td>SEM 1013 Gen.Chem I</td>
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<thead>
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<th>Fall Semester</th>
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<td><strong>Health Promotion Major Course Requirements</strong></td>
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<tr>
<td>ZOOL 2011, Laboratory for Human Anatomy and Physiology I</td>
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<tr>
<td>ZOOL 3003, Human Anatomy and Physiology III</td>
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<tr>
<td>ZOOL 2013, Laboratory for Human Anatomy and Physiology II</td>
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</tr>
<tr>
<td>AT 3201, Medical Terminology</td>
<td></td>
</tr>
<tr>
<td>NRS 2033, Basic Human Nutrition</td>
<td></td>
</tr>
<tr>
<td>SOC 3343, Sociology of Aging OR</td>
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</table>

Electives:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>Total 124</td>
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</table>

Health Promotion Bachelor of Science

General Education Requirements:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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Specific General Education Requirements:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
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Health Promotion Major Course Requirements:

<table>
<thead>
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<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>1</td>
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Specific General Education Requirements:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>SCED 4713</td>
</tr>
<tr>
<td>PSY 3703</td>
</tr>
<tr>
<td>PE 4893</td>
</tr>
<tr>
<td>SCED 2514</td>
</tr>
<tr>
<td>HLTH 2513</td>
</tr>
<tr>
<td>PE 4703</td>
</tr>
<tr>
<td>HLTH 3563</td>
</tr>
<tr>
<td>HLTH 4513</td>
</tr>
<tr>
<td>HLTH 4543</td>
</tr>
<tr>
<td>HLTH 4896</td>
</tr>
<tr>
<td>ELED 3003</td>
</tr>
<tr>
<td>SCOM 1203</td>
</tr>
<tr>
<td>ELED 4893</td>
</tr>
<tr>
<td>TIPE 4826</td>
</tr>
</tbody>
</table>

**Physical Education Bachelor of Science in Education P-12**

The Arkansas Department of Education has proposed changes to teacher and administrator licenses. These changes will affect students entering Arkansas State University in academic year 1997-98. Please consult with your adviser for information as you proceed through your program of studies. Additional information will be available in department offices and the Office of the Dean of Education.

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 2513</td>
<td>Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2523</td>
<td>First Aid and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3543</td>
<td>Human Anatomy and Anatomical Fundamentals of Motion</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3553</td>
<td>Basic Physiology of Activity</td>
<td>3</td>
</tr>
<tr>
<td>PE 1887</td>
<td>Foundations of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PE 3882</td>
<td>Physical Education for Teachers of Young Children</td>
<td>2</td>
</tr>
<tr>
<td>PE 3832</td>
<td>Rhythmic Activities and Fundamental Movement for Elementary Grades</td>
<td>3</td>
</tr>
<tr>
<td>PE 3833</td>
<td>Theory and Practice of Teaching Fitness Concepts</td>
<td>2</td>
</tr>
<tr>
<td>PE 3842</td>
<td>Theory and Practice of Teaching Leisure Sports</td>
<td>2</td>
</tr>
<tr>
<td>PE 3862</td>
<td>Theory and Practice of Teaching Racket Sports</td>
<td>2</td>
</tr>
<tr>
<td>PE 3892</td>
<td>Theory and Practice of Team Sports</td>
<td>2</td>
</tr>
<tr>
<td>PE 4683</td>
<td>Motor Skills Development for Children</td>
<td>3</td>
</tr>
<tr>
<td>PE 4703</td>
<td>Adaptive Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PE 4753</td>
<td>The Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PE 4763</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PE 4783</td>
<td>Organization and Administration of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PE 4793</td>
<td>Evaluation in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>EDHE 4533</td>
<td>Strategies for Teaching Health Education</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>(depending on general education requirements)</td>
<td>5-8</td>
</tr>
</tbody>
</table>

### Health Education Bachelor of Science in Education

The Arkansas Department of Education has proposed changes to teacher and administrator licenses. These changes will affect students entering Arkansas State University in academic year 1997-98. Please consult with your adviser for information as you proceed through your program of studies. Additional information will be available in department offices and the Office of the Dean of Education.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>HLTH 3563</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4513</td>
<td>Consumer Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4543</td>
<td>Drug Use and Abuse</td>
<td>3</td>
</tr>
<tr>
<td>ES 4693</td>
<td>Techniques of Strength Training and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>ELED 3003</td>
<td>Integration of Technology into the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDHE 4533</td>
<td>Strategies for Teaching Health Education</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1203</td>
<td>Oral Communications</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3553</td>
<td>Basic Physiology of Activity</td>
<td>3</td>
</tr>
<tr>
<td>ELED 3003</td>
<td>Human Growth and Learning</td>
<td>3</td>
</tr>
<tr>
<td>SCED 2514</td>
<td>Introduction to Secondary Teaching</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3703</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>TIPE 4826</td>
<td>Teaching Internship in Secondary School</td>
<td>12</td>
</tr>
</tbody>
</table>

### Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 2513</td>
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<td>3</td>
</tr>
<tr>
<td>HLTH 2523</td>
<td>First Aid and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3543</td>
<td>Human Anatomy and Anatomical Fundamentals of Motion</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3553</td>
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<td>PE 1887</td>
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<td>PE 4783</td>
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<tr>
<td>PE 4793</td>
<td>Evaluation in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>EDHE 4533</td>
<td>Strategies for Teaching Health Education</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Sem. Hrs.</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>EDHE 4533, Strategies for Teaching Health Education</td>
<td>3</td>
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<td>EDFE 2023, Physical Education</td>
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<tr>
<td>HLTH 2523, First Aid and Safety</td>
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<tr>
<td>EDHE 4530, Strategies for Teaching Health Education</td>
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<tr>
<td>MGMT 4353, Human Anatomy and Anatomic Fundamentals of Motion</td>
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<tr>
<td>HLTH 2553, Basic Physiology of Activity</td>
<td>3</td>
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<tr>
<td>BIOL 2103, Microbiology</td>
<td>3</td>
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<tr>
<td>Health Electives (Jr.-Sr.)</td>
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*Due to state licensure changes, this option may not be available.

**Driver Education:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>DRED 4263, Basic Driver Education</td>
<td>3</td>
</tr>
<tr>
<td>DRED 4273, Advanced Driver Education</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2523, First Aid and Safety</td>
<td>3</td>
</tr>
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<td>Total</td>
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</table>

**Coaching:** (Required in Arkansas for coaching football, basketball, and track)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>HLTH 2553, Basic Physiology of Activity</td>
<td>3</td>
</tr>
<tr>
<td>PE 3872, Rules and Officiating</td>
<td>2</td>
</tr>
<tr>
<td>PE 3813, Concepts of Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>PE 4873, Organization and Administration of Interscholastic Athletics</td>
<td>3</td>
</tr>
<tr>
<td>ES 4693, Techniques of Strength Training and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
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</table>

**Sport Management Bachelor of Science**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>RDNG 3203, Foundations of Reading Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Teacher Education Admission Fee</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 3303, Readings in Media</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 3304, Readings in Literature</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 3305, Readings in the World</td>
<td>3</td>
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<tr>
<td>Total</td>
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</table>

**Required Major Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>RDNG 3303, Readings in Media</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 3304, Readings in Literature</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 3305, Readings in the World</td>
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<tr>
<td>Total</td>
<td>9-12</td>
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</table>

**Emphasis Area:**

<table>
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<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>BUSI 1531, Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 2313, Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 2323, Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 3313, Marketing Management</td>
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</tr>
<tr>
<td>Total</td>
<td>9-12</td>
</tr>
</tbody>
</table>

**College of Education Course Descriptions**

**SPECIAL DEPARTMENTAL NONREFUNDABLE COURSE FEES**

- Teacher Education Admission Fee .......................................................... $25.00
- RDNG 3303 Foundations of Reading Instruction (P-4 & 4-8 teacher education admission fee)
- SCED 3515 Performance Based Instructional Design (7-12 teacher education admission fee)
- Teacher Education Portfolio Fee .......................................................... $30.00
- ELED 2201 Introduction to Teaching (teacher education portfolio fee)
- Teacher Internship Fee $10/credit hour
- ECH 4086 Teaching Internship Kindergarten
- ECH 4096 Teaching Internship Primary
- MLED 4106 Teaching Internship Grades 4-5
- MLED 4116 Teaching Internship Grades 6-8
- TIAQ, TIER, TIBI, TIBU, TICH, TIEN, TIHI, TILA, TIMA, TIMU, TIEP, TISP 4826 Teaching Internship in the Secondary School

**Department of Psychology and Counseling**

- The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

- Counselor Education (COUN) (Special course fees may apply.)
  - 4801-3. Special Topics Workshop Study of selected professional topics. May not be used to satisfy any degree requirements. May be repeated for credit. (D)
Psychology (PSY)

2013. Introduction to Psychology Study of the important scientific principles of individual human behavior from biological, cognitive, social, and behavioral perspectives. (F, S, SU)

2023. Contemporary Psychology Study of the nature of modern scientific psychology and its application to selected topics and issues of contemporary interest. Prerequisite: PSY 2013 or permission of instructor. (F, S, SU)

3101. Laboratory for Quantitative Methods Laboratory associated with PSY 3103. Two hours per week. Corequisite: PSY 3103. (F, S, SU)

3103. Quantitative Methods for Behavioral Sciences Introduction to basic statistical techniques and methodology applicable to research problems in the behavioral sciences. Prerequisite: Three hours of mathematics or permission of instructor. Corequisite: PSY 3101. (F, S, SU)

3121. Laboratory for Experimental Psychology Laboratory associated with PSY 3123. Two hours per week. Corequisite: PSY 3123. (S, F)

3123. Experimental Psychology Introduction to experimental methods in the study of behavior. Designed to acquaint the student with the principles of experimental design and research techniques. Prerequisite: Three hours of statistics or permission of instructor. Corequisite: PSY 3101. (F, S, SU)

3153. Human Research Introductory course to familiarize students with the various data collection techniques used by psychologists to increase understanding of human behavior. Special emphasis on procedural and ethical problems inherent in research using humans as subjects. (F, S)

3303. Motivation Survey of animal and human research in motivation. Topics include instincts, biological drives, acquired drives, incentive, secondary reinforcement, frustration, and theories of motivation. (F, S)

3403. Child Psychology Principles and patterns of mental, social, emotional, and physical development. No more than 6 credit hours from the following courses may be used to satisfy the requirements for a major or minor in psychology: PSY 3403, PSY 3413, and PSY 3453. (F, S, SU)

3413. Adolescent Psychology The influence of factors including cognition, motivation, perception, learning, emotion, and personality on development during adolescence. No more than 6 credit hours from the following courses may be used to satisfy the requirements for a major or minor in psychology: PSY 3403, PSY 3413, and PSY 3453. (S, SU)

3453. Developmental Psychology Study of the life cycle from prebirth through death including an examination of the major methods, theories, and empirical findings. No more than 6 credit hours from the following courses may be used to satisfy the requirements for a major or minor in psychology: PSY 3403, PSY 3413, and PSY 3453. (F, S, SU)

3523. Introduction to Social Psychology Analysis of the situational factors which influence various behaviors including aggression, altruism, and interpersonal attraction. (F, S, SU)

3613. Cultural Psychology This course focuses on issues of how human culture impacts the individual’s behavior, attitudes, and mental health. (F

3703. Educational Psychology Survey of principles as they apply to education. (F, S, SU)

3801-3. Special Problems in Psychology Individual problems in psychology arranged in consultation with the instructor and the department chairman. May be repeated for credit but no more than 6 credit hours may be applied toward psychology major requirements. (D)

3823. History of Psychology Overview of the history of psychology and recent systematic developments. (F, S, SU)

4053. Today’s Families: Interdisciplinary Approaches An interdisciplinary course designed to promote a critical approach to examining the family and its role in society. Prerequisite: 12 hours of coursework in Interdisciplinary Family Minor OR Instructor’s Permission.

4173. Introduction to Psychological Testing Overview of theoretical and practical aspects of the assessment and prediction of human behavior. Includes principles and application of group and individual standardized measures as well as investigator-made measures. Prerequisites: Three hours of statistics or permission of instructor. (S)

4233. Physiological Psychology Physiological bases of psychological constructs such as memory, reinforcement, attention, sleep, and motivation as each applies to humans and infra-human species. (S)

4343. Learning Processes The study of behavioral adaptation at the level of the individual. Includes empirical and theoretical issues related to classical and instrumental conditioning, complex learning, memory, and the neural bases of learning and memory. Human and infrahuman data are considered. (F)

4363. Cognitive Psychology The study of human thinking, emphasizing empirical knowledge on processes involved in information processing, memory, knowledge representation, language, and problem solving. (F, S)

4383. Abnormal Psychology An introduction to various mental disorders, including their origins and characteristics. (F, S, SU)

4543. Personality Development Principles of development and organization of personality, with emphasis on influencing agents. (S, SU)

4723. Organizational Psychology Provides an understanding of leadership, motivation, job satisfaction, communication, decision making, stress, and group process as related to organizational development, maintenance, and productivity. (D)

4753. Introduction to Rehabilitation Counseling An overview of the profession of rehabilitation counseling which is a systematic process that assists persons with physical, mental, developmental, cognitive, and emotional disabilities to achieve their personal, career, and independent living goals in the most integrated setting possible through the application of the counseling process. This course cannot be applied to masters-level counselor licensure and certification when taken at the undergraduate 4000-level.

4853. Psychological Seminar Provides intensive coverage of contemporary psychological topics. Prerequisite: 12 hours of psychology and permission of instructor. May be repeated for credit. (D)
DEPARTMENT OF EDUCATIONAL LEADERSHIP, CURRICULUM AND
SPECIAL EDUCATION

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Curriculum and Instruction (ELCI)

*Prerequisite: Admission into Teacher Education Program

4013. Curriculum and Assessment Instructional Theory and Practice Course focuses on current theory and practice for instructional techniques and fundamentals of educational measurement as they apply to classroom situations. This course is a co-requisite to the TI__4826 Teaching Internship in the Secondary School.

4053. Educational Procedures for Individuals with Mild Disabilities A study of models for the planning and delivering of instruction to students with disabilities who require an individualized general curriculum. Includes techniques and materials for teaching reading, math and writing. Prerequisites: ELSE 3543 or equivalent. (S)

4093. Working with Young Children in Inclusive Settings The purpose of this course is to provide the teacher with knowledge of current theories, “best practices,” and strategies relevant to working with children from birth to 8 years of age who have special needs.

4623. Diagnostic and Corrective Mathematics Instruction in Special Education Developing a comprehensive perspective of diagnostic and corrective mathematics needs of students with mild disabilities. Emphasis will stress concept and skill development. (F, SU)

4633. Diagnostic and Corrective Reading Instruction in Special Education Developing a comprehensive understanding of diagnostic and corrective needs of students with reading disabilities in resource and self-contained classrooms. Prerequisite: Admission into the Teacher Education Program (S, SU)

4683. Methods for Working with Families Knowledge of family systems theory and the impact which a disability may have on the family system, awareness of family support and community resources, skills for effective communication, conferences, and collaboration. Development of effective interpersonal communicative skills; conducting conferences; designing training programs for families. (S, SU)

4703. Identification, Nature, and Needs for the Gifted, Talented, and Creative A comprehensive study of methods for identifying gifted, talented, and creative students. Includes characteristics and educational and social needs of this population in a variety of educational settings. (S)

4713. Educational Procedures and Materials for the Gifted, Talented, and Creative Focus is on current theory and practice in planning educational programs for gifted, talented, and creative students. Prerequisite: SE 4703. (SU)

4723. Assessment for Programming for Gifted, Talented, and Creative Instruments will be reviewed for the purpose of preliminary screening and to provide differentiated programming for gifted, talented, and creative. (S)

4733. Gifted, Talented, and Creative Children in the Regular Classroom A study to facilitate the education of regular classroom teachers as they strive to assist in the identification of gifted, talented, and creative students and to further enhance the education of these students while in the regular classroom. Includes specific areas of giftedness pertaining to characteristics, identification, and differentiated instruction. (D)

4816. Teaching Internship in Special Education Culmination of the early childhood dual certification program. Provides directed teaching under the supervision of a qualified teacher. Requires application of knowledge skills, and demonstration of appropriate dispositions for teaching.* (F,S)

*A designed series of learning experiences to address the specific needs of inservice teachers, administrators, or special service personnel. May not be used to satisfy any degree requirements. May be repeated for credit. (D)

Special Education (ELSE)

*Prerequisite: Admission into Teacher Education Program

2733. Activity Based Instruction This course will provide the teacher with knowledge of current theories, “best practices,” and strategies for working with children from birth to five years of age who have special needs. It is designed for early childhood educators and paraprofessionals. (SU)

3023. Characteristics of Individuals with Disabilities In-depth study designed to develop knowledge of the characteristics of individuals with disabilities and the influence of these characteristic on the learning potential of these students. (SU)

3643. The Exceptional Student in the Regular Classroom Introduction to exceptional students, with the major focus on serving these individuals in regular education classrooms environments. (F, S, SU)

4033. Behavior Intervention and Consultation Techniques of systematic behavioral analysis, prevention, and intervention for students at-risk for school failure or students with disabilities. Emphasis is placed on both direct and consultative interventions. (F, S, SU)

4043. Educational Diagnosis and Assessment in Special Education A study of the principles and practices for assessment and identification of individuals with disabilities. Administration of formal and informal assessment instruments, and interpretation of assessment data is emphasized. Prerequisite: SE 3023. (F, SU)
DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND SPORT SCIENCES

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Athletic Training (AT)

2203. Emergency Management in Athletic Training  The study and application of emergency management techniques in dealing with trauma resulting from injuries and illnesses suffered by an athletic population. Prerequisites: ZOOL 2001, ZOOL 2003, ZOOL 2011, ZOOL 2013, AT 2733. Corequisite: AT 2731. (S)

2731. Laboratory for Care and Prevention of Athletic Injuries  A laboratory course offered concurrently with AT 2733 emphasizing the practical aspects of taping, wrapping, and injury assessment. Prerequisite: ZOOL 2001, ZOOL 2003, ZOOL 2011, ZOOL 2013. Prerequisite: AT 2733. Corequisite: AT 2203. (S)

2733. Care and Prevention of Athletic Injuries  A course designed to introduce athletic training students to current principles and practices in the prevention, recognition, and management of athletic related injuries and illnesses. Prerequisite: ZOOL 2001 and ZOOL 2003, ZOOL 2011, ZOOL 2013. (F)

2883. Foundations of Athletic Training  Course designed to introduce the prospective athletic training major to the mission, philosophy and objectives of the ASU Athletic Training Program, the role of the certified athletic trainer and the relationship of athletic training to the U.S. health care system. Areas of emphasis include history, scope of practice, current professional literature and career opportunities. Prerequisite: AT 2733.

3101. Clinical Instruction in Athletic Training I  This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. For Athletic Training Majors Only. Prerequisite: Admission to the Athletic Training Program. Corequisite: AT 3111. (F)

3111. Clinical Experience in Athletic Training I  This course provides a proficiency based supervised practical experience in athletic training required for certification by the NATA. For Athletic Training Majors Only. (Special course fee: $17.50). Prerequisite: Admission to the Athletic Training Program. Corequisite: AT 3101. (F)

3201. Clinical Instruction in Athletic Training II  This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. For Athletic Training Majors Only. Prerequisites: AT 3101, AT 3111. Corequisite: AT 3211. (S)

3211. Clinical Experience in Athletic Training II  This course provides a proficiency based supervised practical experience in athletic training required for certification by the NATA. For Athletic Training Majors Only. Prerequisite: AT 3101, AT 3111. Corequisite: AT 3201. (S)

3731. Laboratory for Advanced Assessment of Athletic Injuries  A laboratory course offered concurrently with AT 3733 in which students practice the advanced skills necessary to evaluate athletic related injuries and illnesses. Prerequisites: AT 2731 and AT 2733. Corequisite: AT 3733. (S)

3733. Advanced Assessment of Athletic Injuries  Advanced course designed to develop further knowledge and skills related to the recognition, assessment, treatment, and appropriate medical referral of athletic injuries and illnesses. Prerequisites: AT 2731 and AT 2733. Corequisite: AT 3731. (S)

3741. Laboratory for Therapeutic Exercise  A laboratory course offered concurrently with AT 3743 where students will practice the advanced skills necessary to rehabilitate athletic related injuries using therapeutic exercise techniques. Prerequisites: AT 3731 and AT 3733. Corequisite: AT 3743. (F)

3743. Therapeutic Exercise  A study of clinical sports therapy techniques used in the rehabilitation and reconditioning of athletic related injuries. Includes goniometry, manual muscle testing, therapeutic and resistance exercises and proprioceptive neuromuscular facilitation. Prerequisites: AT 3731 and AT 3733. Corequisite: AT 3741. (F)

3831. Laboratory for Therapeutic Modalities  A laboratory course offered concurrently with AT 3833 in which students will practice the skills necessary for the proper application of therapeutic modalities in the treatment of athletic related injuries. Prerequisites: AT 2731 and AT 2733; PHYS 2054 or PHYS 2133. Corequisite: AT 3833. (F)

3833. Therapeutic Modalities  A study of current theory and application in the use of therapeutic modalities in the athletic training setting. Emphasis will be placed on thermal, electrotherapeutic and hydrotherapeutic modalities. Prerequisites: AT 2731 and AT 2733; PHYS 2054 or PHYS 2133. Corequisite: AT 3831. (F)

4101. Clinical Instruction in Athletic Training III  This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. For Athletic Training Majors Only. Prerequisites: AT 3201, AT 3211. Corequisite: AT 4111. (F)

4111. Clinical Experience in Athletic Training III  This course provides a proficiency based supervised practical experience in athletic training required for certification by the NATA. For Athletic Training Majors Only. (Special course fee: $17.50). Prerequisite: AT 3201, AT 3211. Corequisite: AT 4101. (F)

4201. Clinical Instruction in Athletic Training IV  This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. For Athletic Training Majors Only. Prerequisites: AT 4101, AT 4111. Corequisite: AT 4211. (S)

4211. Clinical Experience in Athletic Training IV  This course provides a proficiency based supervised practical experience in athletic training required for certification by the NATA. For Athletic Training Majors Only. Prerequisite: AT 4101, AT 4111. Corequisite: AT 4201. (S)

4723. Athletic Training Administration  A study of the standards, policies and practices in the organization, supervision and administration of athletic training programs. Emphasis will be placed upon planning, developing, organizing and directing an athletic training program in a variety of sports medicine settings. Prerequisites: AT 2731, AT 2733. (F)

4743. Athletic Training Seminar  This course is designed for senior students in athletic training for the advanced study and discussion of specialized topics and contemporary issues related to the field of athletic training. Emphasis will be placed on professional development and employment preparation. Athletic Training students Only. Prerequisite: AT 4723. (S)
Driver Education (DRED)

4263. Basic Driver Education  Instruction and application in the knowledge, skills, and attitudes needed for teaching safe driving. For certification in driver and traffic education. This is not a learn-to-drive course. (F, SU)

4273. Advanced Driver Education  Driver and traffic education with emphasis on advanced instruction and research in driver education. Prerequisite: DRED 4263.

Exercise Science (ES)

2883. Foundations of Exercise Science  An introductory course designed to examine the philosophical, historical, and psychosocial origin of the field of exercise science. Current issues and future directions will also be explored. (F)

3543. Human Anatomy and Anatomic Fundamentals of Motion  Analysis of the parts of the human body and their position, structure, and functions as related to human motion. (Cross listed as HLT 3543) (F, S, SU)

3553. Basic Physiology of Activity  A basic study of the organs and systems of the human body, with particular emphasis on the effects of physical activity of the functioning of the systems. (Cross listed as HLT 3553) (F, S, SU)

3623. Techniques of Physiological Fitness Assessment  Study of graded exercise testing in the evaluation of functional work capacity. Testing modalities will include: treadmill, bicycle ergometer, bench or step testing, and field testing. Prerequisite: HLT 3553 or Corequisite: PE 3713. (F, S)

3633. Nutrition for Health, Sport and Exercise  Provides the student with information about nutrition as it pertains to health, sport, and exercise. (S)

3543. Techniques of Aerobic Conditioning  Principles and methods of exercise leadership. Includes exercise programming and participation, teaching methods, technique evaluation, supervision, and leadership for various types of group aerobic exercise programs including field, gymnasium and aquatic exercise. Prerequisite: ES 3543 and 3553. (S)

3713. Cardiovascular Physiology  This course is designed to introduce the student to the study of cardiovascular physiology with an emphasis on normal versus abnormal function. It provides an in-depth study of the cardiovascular system and its various responses to acute and chronic exercise. Prerequisites: ZOOL 2003, 2001, 2013, 2011, HLT 3553. (S)

3743. Research and Statistical Methods in Exercise Science  Fundamental aspects of the clinical research process involving human subjects. The course will include an overview of the research process, procedures, sampling data collection and analysis. (F, S)

4673. Exercise Prescription for Special Populations  Provide the students with principles and practice in developing exercise regimens and programs specifically designed for special populations. (S)

4683. Exercise Prescription and Fitness Programming  The application of basic physiological principles in the prescription of exercise and the administration of conditioning programs for individuals of differing ages, health status, and occupational status. Prerequisite: H 3533. (F)

4693. Techniques of Strength Training and Conditioning  The study of current principles and procedures essential to strength training and conditioning practices. Emphasis is placed on the development and practical applications of aerobic conditioning, joint flexibility, and muscular strength, power and endurance programs. Prerequisites: HLT 3543; HLT 3553. (S)

4763. Kinesiology  Mechanics of human motion and its application to physical activity. Prerequisite: HLT 3543, Human Anatomy and Fundamentals of Motion. (F, S)

4843. Practicum/Pre-Internship  Introduction to field experience in exercise science in order to become familiar with the operational and procedural aspects of clinically-based exercise facilities. Prerequisite: ES 3623, ES 3653, ES 3713, ES 4673, ES 4673, ES 4683, ES 4693, HLT 4623. (F)

Health (HLTH)

2513. Principles of Personal Health  Principles, problems, and practices in the development of positive health behavior. (F, S, SU)

2523. First Aid and Safety  Fundamentals, techniques, and practices of Standard First Aid and CPR as prescribed by the National Safety Council. Emphasis on programs of accident prevention in schools, homes, recreational areas; traffic safety. (F, S, SU)

2883. Foundations of Health Education  This course will provide the scientific basis for conceptualizing and designing health education programs that are relevant, practical, and effective. (S)

3523. Public and Community Health  Examination of public and community health problems, their causes, and possible solutions from a local, state, national, and international perspective. Roles of the individual and the community, and functions of the various agencies involved with health-related issues will also be studied. (F)

3543. Human Anatomy and Anatomic Fundamentals of Motion  Analysis of the parts of the human body and their position, structure, and functions as related to human motion. (Cross listed as ES 3543) (F, S, SU)

3553. Basic Physiology of Activity  A basic study of the organs and systems of the human body, with particular emphasis on the effects of physical activity of the functioning of the systems. (Cross listed as ES 3553) (F, S, SU)

3563. Human Sexuality  Emphasis given to human reproduction, courtship, marriage, parenthood, premarital/extramarital sex, and deviate sexual behavior. (F, S, SU)

4513. Consumer Health  An analysis of the health services and health products offered in the market place and study of principles involved in making wise consumer health choices. (SU)

4523. Current Issues in Health  Current issues and trends in personal, public, and international health with stress on individual research and readings. (F)

4543. Drug Use and Abuse  An exploration of the physical, mental, emotional, and social aspects of drug use and abuse. Special attention will be focused on proper use of drugs within contemporary society. (F, S, SU)

4573. The School Health Program  The scope and function of the total school health program including common health problems, recommended program organization, and administrative practices. (F, SU -even)

4633. Health Promotion Assessment and Planning  Designed to facilitate students’ understanding of the process of conducting needs assessments with various populations and to help students learn how to plan a well-designed program for implementation. (F)

4643. Health Promotion Implementation and Evaluation  Designed to facilitate students’ understanding of the process of program implementation and evaluation. Students will implement and evaluate various health interventions. Prerequisite: HLT 4633. (S)
4801-3. Special Topics Workshop  A specifically designed series of learning experiences to enhance the professional capabilities of teachers. Opportunity for participants to engage in meaningful learning activities and to interact with recognized professionals in the field. Course can be repeated for credit. (D)

4896. Internship in Health Promotion  This course is designed to provide a culminating experience for students in the health promotion program. Senior students will have an opportunity to apply skills learned in the curriculum in clinical, community, corporate, and school settings. Two hundred forty contact hours are required at the internship site. Prerequisites: Formal application to the internship coordinator one semester prior to enrollment in the course. Completion of 100 semester hours of coursework including all health core and required courses and 2.0 overall GPA with a "C" or better in all health core and required courses. (Special course fee: $17.50). (F, S, SU)

Physical Education (PE)

1002. Concepts of Fitness  Provides knowledge and appreciation of the importance of physical fitness for lifelong health, wellness, and a quality life; and opportunities for psychomotor development. (F, S, SU)

1011. Pilates and Fitness Yoga  The principles and concepts of Pilates and Fitness Yoga in developing overall body flexibility, strength and endurance as well as enhancing good body posture. (F, SU)

1111. Physical Conditioning  Basic conditioning. The course includes weight training, circuit training, cardiovascular and respiratory activity. (F, S, SU)

1121. Figure Control  The principles and concepts of exercise as related to enhancement of personal appearance. (F, S, SU)

1131. Aerobic Exercise  Basic conditioning involving continuous rhythmic movement. Individualized fitness programs are developed for each student. (F, S)

1141. Beginning Rugby  Introduction to the basic skills, rules, and strategy of rugby. (F)

1211. Hiking/Backpacking  Introduction to basic skills and knowledge of first aid, land navigation, outdoor skills, and equipment necessary to participate in hiking/backpacking. One weekend field trip required. (F, S)

1221. Rappelling and Rock Climbing  Introduces the student to the fundamentals of rappelling/rock-climbing equipment, terminology, techniques, and skills necessary to rock climb safely and successfully. Optional participation in one mountaineering field trip. (Special course fee: $25.00) (D)

1231. Country-Western Dance  Beginning instruction in skills and techniques of Country-Western style dance steps. (F, S)

1241. Fitness Walking  Fundamental techniques of and benefits derived from a regimented aerobic walking program. (F, S)

1311. Beginning Swimming  Non-proficiency course designed to teach basic swimming skills for non-swimmers or beginning swimmers. (F, S)

1321. Water Aerobics  Basic conditioning involving aquatic exercise, opportunity to develop and maintain fitness while enjoying water activities. (F, S)

1411. Track and Field  Introduction to the fundamentals of track and field activities. (F, S)

1421. Racquetball  Introduction to the basic skills, rules, and strategy of racquetball. (F, S, SU)

1461. Archery  Introduction to fundamentals of recreational archery. (F, S, SU)

1471. Bowling  Introduction to the basic techniques of bowling. (Special course fee: $25.00) (F, S)

1481. Tennis  Introduction to the basic skills, rules, and strategy in tennis. (F, S, SU)

1491. Badminton  Introduction to the basic skills, rules, and strategy in badminton. (F, S)

1501. Golf  Introduction to the basic skills, rules, and strategy in golf. (F, S)

1511. Gymnastics  Introduction to the basic skills in tumbling and apparatus. (F, S)

1521. Trampoline  Instruction and practice in trampoline skills and routines. (D)

1531. Fencing  Introduction to the basic skills, rules, and strategy of foil fencing. (D)

1601. Soccer  Introduction to the basic skills, rules, and strategy in soccer. (F, S)

1611. Basketball  Introduction to the basic skills, rules, and strategy of basketball. (F, S)

1621. Volleyball  Introduction to the basic skills, rules, and strategy of volleyball. (F, S)

1641. Flag/Touch Football  Introduction to the basic skills, rules, and strategy of flag/touch football. (F, S)

1651. Softball  Introduction to the basic skills, rules, and strategy of softball. (F, S)

1801. International Folk Dance  Folk dances of various people throughout the world; understanding of basic terms and steps. (F)

1821. Ballet  Introductory course featuring the history, barre work, center floor, allegro moves, and body positions of ballet. (D)

1841. Ballroom Dance  Techniques of the following dances: foxtrot, polka, waltz, Latin, basic moves, country-western, swing, and others. (F, S)

1883. Foundations of Physical Education  Introductory course designed for the prospective physical education major. Areas of special emphasis are history, principles, scope of program, relationship of physical education to general education, current professional literature, and vocational opportunities. (F, S)

2141. Intermediate Rugby  Instruction in skill, strategy, and techniques in rugby. For students who have already acquired the basic skills of rugby. (F, S)

2311. Intermediate Swimming  Instruction and practice in five basic swimming strokes. (F, S)

2811. American Square and Round Dance  Techniques and basics in square and round dancing. (S)

3752. Advanced Swimming and Lifeguarding  Development of swimming and opportunity for certification in lifeguarding. Prerequisite: Intermediate swimming skill.

3762. Aquatic Safety Instruction and Pool Management  Advanced aquatic techniques and management of aquatic facilities. Prerequisite: Intermediate swimming skill.

3782. Skin and Scuba Diving  Opportunity for Y.M.C.A. certification pending completion of specified requirements. Prerequisite: Consent of instructor. (Special course fee: $30.00) (F, S)

3792. Folk and Square Dancing  Study and practice of folk dances and characteristics of various countries, with emphasis on square dances and calling square dances. (D)
3802. Physical Education for Teachers of Young Children The philosophy, aims, and objectives of physical education in the grades P-4; includes laboratory experiences. (F, S, SU)
3803. Physical Education for Elementary Grades Designed to assist prospective elementary teachers in planning and conducting a well rounded program. Emphasis is placed on proper selection of activities, program organization, and teaching procedures. Provision is made for the student to get some experience working with children.
3813. Concepts of Athletic Training A course designed for physical educators, coaches and students interested in the care of sports related injuries. (S, SU)
3823. Rhythmbetical Activities and Fundamental Movement for Elementary Grades The values, scope, and analysis of rhythmical activities and basic movement experiences. Emphasis is given to teaching techniques and program progression. (F, S)
3832. Theory and Practice of Teaching Fitness Concepts Instructional strategies designed to teach, develop and assess health-related fitness components for grades P-12. Prerequisite: PE 1002. (F, S)
3833. Sport Promotion and Marketing Develop an understanding of theories and principles involved in marketing and promoting a program in sport, human performance and leisure studies. (F)
3842. Theory and Practice of Teaching Leisure Sports Instructional strategies for teaching skill techniques, progression, and planning in selected leisure sport activities (archery, bowling, golf, table tennis) for students in grades P-12. (F, S)
3862. Theory and Practice of Teaching Racket Sports Instructional strategies for teaching skill techniques, progression, and planning in selected racket sports (badminton, racquetball, pickleball, and tennis) for students in grades P-12. (F, S)
3863. Economic and Financial Management for Sport Organizations Financial concepts and theories and their application in the professional, intercollegiate, and commercial sport industries. Prerequisite: FIN 3713. (F)
3872. Rules and Officiating A study of rules and techniques in officiating the following sports: baseball/softball, basketball, football/touch football, soccer, track and field, and volleyball. (F, S)
3873. Facility and Event Management Principles and practices for operating athletic centers and recreational facilities. (S)
3892. Theory and Practice of Teaching Team Sports Skill techniques, progression, and planning for instruction in basketball, flag/touch football, soccer, softball, and volleyball for students in grades P-12. (F, S)
3893. Sports in America An overview of the impact and significance of play and sports as a social institution. (F)
4663. Motor Skills Development for Children Appropriate content and skill performance levels in basic game skills and gymnastics for grades K-6. (S)
4703. Adaptive Physical Education Enables the prospective teacher to: (a) understand the value of physical education for students with disabilities; (b) plan programs designed to assist students with physical, mental, and emotional disabilities in developing their maximum potential through physical activity. (F)
4711-3. Independent Study Student may engage in supervised study of physical education issues. (D)
4743. Legal Issues in Sport Legal issues as it relates to the law, liability, legal systems and the rights of those involved in the sport, exercise, and the fitness industry. (F)
4883. Practicum in Elementary Physical Education  Experience in working with elementary children, including planning and implementing the program. Requires 90 hours of direct contact with elementary age children. Prerequisites: Admission to Teacher Education Program and completion of 75 hours including PE 3803, 3823, and 4663. (Special course fee: $17.50) (SU)

4893. Internship in Physical Education II  Provides practical off-campus experience related to the student’s major option. (Prerequisites: formal application to the internship coordinator one semester prior to enrollment in the course, completion of 100 hours including all required courses, 2.0 GPA, “C” or better in all emphasis area and Generic Physical Education courses, for B.S. in Physical Education majors only) (Insurance fee: $17.50). (F, S, SU)

4896. Internship in Physical Education  Provides practical off-campus experience related to the student’s major option. (Prerequisites: formal application to the internship coordinator one semester prior to enrollment in the course, completion of 100 hours including all required courses, 2.0 GPA, “C” or better in all emphasis area and Generic Physical Education Courses, for B.S. in Physical Education majors only.) (Special course fee: $17.50) (F, S, SU)

DEPARTMENT OF TEACHER EDUCATION

Secondary Education (SCED)*

*Prerequisite: Admission into Teacher Education Program

2514. Introduction to Secondary Teaching  Introduces prospective educators to the historical, philosophical, legal, political, and technological factors affecting American education. Includes thirty clock hours of field/campus-based experiences. Prerequisite: Fifteen semester hours of college credit. (F, S)

3515. Performance-Based Instructional Design*  Performance based instructional procedures and techniques for secondary education majors. Application of various teaching models and appropriate classroom management techniques will be emphasized. Reflective journals, application of technology, micro teaching and field experiences will be required. Prerequisite: SCED 2514. (F, S)

4713. Educational Measurement with Computer Applications*  Students will learn to: (1) construct, administer, and interpret tests and rating scales to measure student achievement and performance; and (2) use the computer to assess, record, and report student achievement and performance. (F, S)

4813. On-The-Job Teacher Training Practicum  A year-long on-the-job teacher training practicum, jointly supervised by designated public school and university personnel. Prerequisite: For teachers entering by the probationary route. (D)

Secondary Teaching Methods (ED__ __)

*Prerequisite: Admission into Teacher Education Program

EDAR 4523. (SCED 4523) Methods and Materials for Teaching Art*  Emphasis on the practical application of art in the secondary school. Techniques and strategies of teaching art, developing an art curriculum, assessing and motivating students. (F)

EDBU 4533. (SCED 4533) Methods and Materials in Teaching Business Technology  Study of the role and scope of the vocational business education teacher: professional organizations, professional ethics, federal involvement, and professional literature. Emphasis on the assessment of student competencies, competency-based programs, resources, facilities, and curriculum development. Selection and practice in teaching techniques and strategies. (F)

EDHE 4533. Strategies for Teaching Health Education  Theory and teaching strategies for effective health instruction. (S, SU -odd)

EDSP 4543. (SCED 4543) Methods and Materials for Teaching Speech Communication and Theatre in the Secondary School*  Methods and resources for teaching speech communication in the secondary schools. Emphasis on the teaching strategies for interpersonal communication, group dynamics, and critical thinking and reasoning. The development of a speech communication resource notebook and the study of selected curriculum guides. (F)

EDEN 4553. (SCED 4553) Methods and Materials for Teaching English in the Secondary School*  The study of models of teaching and instruction and of assumptions underlying current teaching-learning practices for English in the secondary schools. Opportunities to develop skills and strategies for teaching language, literature, and composition to culturally diverse students. (F)

EDMA 4563. (SCED 4563) Methods and Materials for Teaching Mathematics in the Secondary School*  Systematic application of a variety of activities to facilitate the development of competent mathematics teachers. Development and implementation of instructional strategies for teaching mathematics; explicating types of knowledge and the ways they can be taught. (S)

EDMU 4573. (SCED 4573) Methods and Materials for Teaching Instrumental Music*  Overview of the music curriculum K-12. Emphasis on teaching strategies in incorporating cognitive, psychomotor, and affective techniques appropriate to secondary school students. Opportunities to develop behavioral objectives, present demonstrations, plan rehearsals, and more. (F)

EDPE 4583. (SCED 4583) Methods and Materials for Teaching Physical Education in the Secondary School*  Assist the student to assimilate new and previously learned material prior to the internship experience. Special emphasis on PRAXIS II, goal development, teaching styles, methods, and problems encountered by beginning physical education teachers. (F, S)

EDSC 4593. (SCED 4593) Methods and Materials for Teaching Science in the Secondary School*  Philosophical bases, teaching techniques, curriculum development, classroom management, facility resources, and equipment are emphasized. (F, S)

EDSS 4603. (SCED 4603) Methods and Materials for Teaching Social Studies in the Secondary School*  Historical and current trends in teaching social studies at the secondary school level. Major emphasis on content and concept development and their application in the social studies classroom. Practice in writing objectives, applying teaching techniques, and formulating student evaluations. (F, S)

EDAG 4623. (SCED 4624) Special Methods for Teaching Agricultural Education*  Overview of major components of an efficient agriculture department at the secondary school level. Emphasis on teaching methods and materials required for the agriculture classroom and mechanics laboratory. Opportunities for course planning, classroom management, record development, and career orientation. (S)
EDLA 4633. (SCED 4633) Methods and Materials for Teaching Foreign Languages in the Secondary School* Knowledge and practice of instructional strategies and techniques associated with a proficiency-based approach to foreign language teaching. Study of the theoretical bases of language learning and acquisition, innovations in curricula, resources, materials, and technology. (F) EDMU 4643. (SCED 4643) Methods and Materials for Teaching Vocal Music An overview of the music curriculum, K-12. Emphasis on teaching strategies incorporating cognitive, psychomotor, and affective techniques appropriate to secondary school students in vocal music. Opportunities to develop behavioral objectives, demonstrations, plan rehearsals, and more. (S) EDEN 4653. (SCED 4653) Methods and Materials for Teaching English in the Middle School* Methods and materials for teaching English to the special needs of middle school students. Focus on the application of techniques and strategies for teaching language, literature, and composition to culturally diverse students. (S -even) EDSS 4663. (SCED 4663) Methods and Materials for Teaching Social Studies in the Middle School* Methods, materials and activities directed to promote effective instructional procedures for the middle school social studies classroom. Emphasis on the identification, demonstration, development, and evaluation of appropriate social studies strategies. (D) Teaching Internship (TI__ __) TIAG, TIAR, TIBI, TIBU, TICH, TIEN, TIHI, TILA, TIMA, TIPA, TISP 4826. (SCED 4826) Teaching Internship in the Secondary School (12 semester hours)* Full semester teaching internship. (F, S) The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes. Early Childhood Education (ECH) *Prerequisite: Admission into Teacher Education Program 2002. Introduction to Education Technology Introduction to the use of technology in an educational setting, including system operations. This course is a prerequisite to ELED 2202, prerequisite to MLED 3603 and screening into the Teacher Education P-4 program. (F, S) 2013. Survey of Early Childhood Education Focuses on historical and philosophical foundations, current and legal issues, program models and settings and how to apply appropriate strategies to early childhood education programs. (7 clock hours of required observation.) (F, S, SU) 2022. Introduction to Teaching: Field Experiences I Purposes and functions of the elementary school and its personnel. Assistance provided with career choices in the field of elementary education (30 clock hours of elementary classroom observation and directed assignments required) Prerequisite: 15 semester hours. (F, S) 2023. Child Development Study of relevant child development data, encompassing development from conception to the middle childhood years. Practical application of theory is provided through a variety of hands-on experiences and observations. (2 clock hours of experience with children, as identified by instructors). (F, S, SU) 3013. Children’s Literature in the Preschool and Primary Grades* Introduces trade books currently available for young children and the role literature plays in their literacy development. (4 clock hours of field experience in preschool through 4th grade settings) Prerequisites: ARED 3702, ECH 2012, ECH 2023. (F, S, SU) 3033. Effective Teaching Strategies* Develops an understanding of effective instructional practices; provides experience in basic instructional planning and delivery; and assists in developing a variety of instructional approaches. (5 clock hours of field experience and microteaching required). Prerequisite: ELED 3063. 3043. Program Development and Management for Early Care and Education Centers* Provides students with knowledge and skills to develop and manage early childhood programs focusing on the care and education of infants and toddlers. (5 clock hours of field experience required). Prerequisites: ECH 2012, ECH 2023, ECH 3003, ECH 3013, ELED 3063, ELED 4003, RDNG 3203, Corequisites: ECH 3063, ECH 3073. (F, S) 3053. Curriculum Development in Early Childhood Education* Provides students with opportunities to develop and implement appropriate curriculum experiences in the preschool and kindergarten setting. (7 clock hours of field work in the P-3 settings.) Prerequisites: ECH 2012, ECH 2023, ECH 3013, ELED 3063, RDNG 3203, ECH 3003. (F, S, SU) 3063. Individualizing Programs for Children and Families Methods for individualizing programs for young children and their families, based upon individual strengths and needs. (6 clock hours of observation required.) Prerequisites: ECH 2012, ECH 2023, ECH 3003, ECH 3013, ELED 3063, ELED 4003, RDNG 3203, SE 3843. Corequisites: ECH 3043, ECH 3073. (F, S) 3073. Children, Families, and Community Relationships: Field Experiences II* Requires performance of skills and strategies for developing positive relationships with children and families and provides opportunities for interaction with community resources. (A minimum 50 clock hours of field experience with infants, toddlers and preschoolers and 25 hours with agencies) Prerequisites: ECH 2012, ECH 3003, ECH 3013, ELED 3063, ELED 4003, RDNG 3203, Corequisites: ECH 3043, ECH 3063. (F, S) 3083. Integration of Technology into the Curriculum* Teaches pre-service teachers in the early childhood and mid-level programs how to integrate educational technology into the classroom curriculum. Prerequisite: ECH 2002. (F, S, SU) 3603. Literacy for Children and Families Provides students with knowledge of literacy development beginning at birth, and methods to involve families in the literacy process. Six clock hours of observation is required with infants, toddlers, and preschoolers. Prerequisites: ECH 2013, 2023. (S) 3613. Strategies for Supporting Learning Through Play Emphasizes the role of play in the development and learning of typically and atypically developing children, play as a mode to understand children, and strategies to use play to support the learning and development of children. 10 clock hours of Field Experience required. Prerequisites: ECH 2012, ECH 2023. (S) 4012. Organizing and Managing the Learning Environment Techniques of classroom management, theories of discipline, and positive behavior guidance. (F, S, SU) 4013. Field Experience III: Pre-Internship Observing, teaching, evaluating curriculum and materials, managing classrooms, and addressing children's diverse needs and learning strategies. (240 clock hours of field experiences required.) Prerequisites: RDNG 4403, ECH 4012, ECH 4023, ECH 4043. (F, S)
4023. Methods and Materials of Language Arts and Social Studies in Early Childhood  Methods for teaching language arts and social studies and the integration of these subjects across the curriculum. (3 clock hours of field experience.) Prerequisites: ELED 3033, ELED 4003, ECH 3043, ECH 3053, ECH 3063, ECH 3073. (F, S, SU)

4043. Methods and Materials of Math and Science in Early Childhood  Acquaints preservice teachers with the scientific/mathematic process skills. Emphasis placed on three types of learning: naturalistic, informal, and structured. Also the interrelatedness of math/science. (3 clock hours of field experience.) Prerequisites: MATH 2113, MATH 2123, GSP 3203, ELED 3033, ELED 4003, ECH 3043, ECH 3053, ECH 3063, ECH 3073. (F, S, SU)

4053. Today’s Families: Interdisciplinary Approaches  An interdisciplinary course designed to promote a critical approach to examining the family and its role in society. Prerequisite: 12 hours of coursework in Interdisciplinary Family Minor OR Instructor’s Permission

4061. Early Childhood Education Symposium  A symposium with an identified theme related to current events or needs in the field of early childhood education. Designed for early childhood professionals. (May be repeated.) (SU)

4086. Teaching Internship in Early Childhood Education—Kindergarten (6 semester hours)*  Prerequisite: Admission to the internship semester as specified by the Office of Professional Programs of the College of Education. (F, S)

4096. Teaching Internship in Early Childhood Education—Primary Grades 1-3 (6 semester hours)*  Prerequisite: Admission to the internship semester as specified by the Office of Professional Programs of the College of Education. (F, S)

4603. Physical and Psychological Environments for Young Children  Explores the physical and psychological environments needed to support development of the whole child. Includes health, safety, nutrition, physical arrangements and space, communication, guidance and group management. 10 clock hours of Field Experience required. Prerequisites: ECH 3603, ECH 3613, Corequisite: ECH 4613. (F)

4613. Curriculum and Assessment for Early Care and Education  Develops knowledge for assessing children and implementing appropriate curriculum for young children. Includes study of the curriculum, integrated units, observational methods and self-assessment. 10 clock hours of Field Experience required. Prerequisites: ECH 3603, ECH 3613, Corequisite: ECH 4613. (F)

4623. Child Care Program Management and Mentoring  Introduction to basic management and administration of child care programs, including programs for out-of-school time of elementary grade children. Includes policies, procedures, staff supervision/mentoring, funding, finances, licensing, and curriculum implementation. Emphasis on professional development, including ethics and advocacy. Prerequisites: ECH 4603, ECH 4613. (S)

4636. Practicum in Early Care and Education  Students observe and effectively participate in a group setting for young children for extended periods of time, increasingly responsible for all aspects of the group. This course includes a seminar which will focus upon professionalism. Prerequisites: ECH 4623. (SU)

480V. Special Topics  Current subjects of interest in Early Childhood Education professionals with appropriate sub-titles.

Elementary Education (ELED) (Special course fees may apply.)

*Prerequisite: Admission into Teacher Education Program

1001. Introduction to Technology  Designed to teach students the prerequisite skills needed for ELED 3063, and for pre-service education students new to or uncomfortable with technology. (S, S, SU)

3003. Human Growth and Learning*  Study of the nature and development of the child, including major theories of learning and learning processes. (4 clock hours of child study projects required) (F, S, SU)

4053. Teacher-Made Materials for Use in Learning and Interest Centers  Applies philosophical and theoretical course content by demonstrating appropriate teaching devices and requiring students to develop materials essential to the functioning of the activity approach to curriculum. Prerequisite: 12 hours of coursework in interdisciplinary Family Minor OR instructor's permission. (SU)

4613. Techniques of Behavior Management  Techniques of systematic behavioral intervention, including all areas of exceptionality in regular classes, special classes, itinerant and resource programs. Students must complete a fifteen (15) clock-hour case study/behavior management project. (Dual listing: see SE 4613). (SU)

480V. Special Topics  Current subjects of interest to graduate/undergraduate Elementary Education, Early Childhood Education or other educational professionals with appropriate sub-titles. Course may include intensive study of subjects to meet the need of professional educators. All Special Topics Courses must be approved by the Elementary Education Department Curriculum Committee. May be taken for one, two or three credit hours (in any combination) for up to three hours of credit. Special Topics may be applied as elective credit toward a degree program with the written permission of the academic adviser or department chair prior to enrollment in the course.

Middle-Level Education (MLED)

2002. Introduction to Education Technology  Introduction to the use of technology in an educational setting, including system operations. This course is a co-requisite to ELED 2202, prerequisite to MLED 3063 and screening into the Teacher Education P-4 program.

2022. Introduction to Teaching  Purposes and function of the elementary/middle school and its personnel. Assistance proved with career choices in the field of elementary/middle education (30 clock hours of elementary/middle classroom observation and directed assignments required). Prerequisite: 15 semester hours. (F, S)

3003. Nature and Needs of the Mid-Level Learner*  Presents theories and research on the development and needs of the middle level learner. Includes examination of the physical, cognitive, emotional, moral, and social development of 9-15 year olds. (Three clock-hours of fieldwork are required.) (F, S, SU)

3013. Literacy Through Literature for the Middle Grades*  Designed to assist pre-service teachers in becoming widely acquainted with the role literature plays in the continuing literacy development of mid-level students. Features current trade books and other literary forms. (Four clock-hours of fieldwork are required in middle-level classroom settings.) (F, S, SU)

3023. Assessing and Evaluating Student Behavior*  Provides students with a set of measurement and evaluation skills. Attention will be focused on both standardized and teacher-constructed instruments.
3033. Effective Teaching Strategies*  Develops an understanding of effective instructional practices; provides experience in basic instructional planning and delivery; and assists in developing a variety of instructional approaches. (5 clock hours of field experience and microteaching required). Prerequisite: ELED 3063 or MLED 3063. (F, S, SU)

3073. Key Issues of Teaching and Learning in the Middle Grades*  Presents the current and emerging trends in middle grade curriculum development and instructional practices. (Ten clock-hours of fieldwork are required.) Prerequisites: MLED 3003, MLED 3033. (F, S, SU)

3083. Integration of Technology into the Curriculum*  Teaches pre-service teachers in the middle-level programs how to integrate educational technology into the classroom curriculum. (Special course fee: $20.00)

4013. Methods and Materials for Teaching Language Arts and Social Studies in the Middle Grades*  Methods course using language arts as an integrating factor in social studies content. Application of integrated teaching activities required. (Three clock-hours of fieldwork required.) Prerequisites: MLED 3073. (F, S, SU)

4023. Methods and Materials for Teaching Mathematics and Science in the Middle Grades*  The course includes scientific and mathematical process skills, the interrelated nature of mathematics and science. (Three clock-hours of fieldwork is required.) Prerequisite: MLED 3073. (F, S, SU)

4034. Classroom Management and Curriculum Applications: Field Experience II*  A study of classroom management techniques and instructional practices conducive to successfully addressing the middle level learner. (Sixty clock-hours of fieldwork are required.) Prerequisite: MLED 3073. (F, S)

4063. Social Foundations of Education*  Develops a basic understanding of the educational function in American society. Emphasis on the history, philosophy, and professional aspects of teaching. (F, S, SU)

4106. Teaching Internship in Middle Grades 4-5*  Culmination of the mid-level education program. Provides eight weeks of directed teaching under the supervision of a qualified teacher. Requires application of knowledge, skills, and demonstration of appropriate dispositions for teaching. Prerequisite: Admission to the internship semester as specified by the Office of Professional Education Programs of the College of Education. (F, S)

4116. Teaching Internship in the Middle Grades 6-8*  Culmination of the mid-level education program. Provides eight weeks of directed teaching under the supervision of a qualified teacher in an appropriate area of specialty. Requires application of knowledge, skills, and demonstration of appropriate dispositions for teaching. Prerequisite: Admission to the internship semester as specified by the Office of Professional Education Programs of the College of Education. (F, S)

Reading (RDNG)

*Prerequisite: Admission into Teacher Education Program

3003. Reading Acceleration  For students who have a need to develop efficiency in reading.

3203. Foundations of Reading Instruction*  Introductory course focusing on the theories of reading and the reading process, with an introduction to the history of reading instruction and approaches and materials for teaching reading. (F, S, SU)
College of Engineering

Professor R. C. Cliff, Interim Dean

One of the hallmarks of modern times is the acceptance of accelerating change, both in technological products and in educational philosophies. Few college graduates function today solely with the skills and understanding that they gained in formal degree programs. Recognizing that the undergraduates of Arkansas State University will pursue their careers in an ever changing world, the overall mission of the College of Engineering is to provide a broad education in the fundamentals of engineering and technology while providing opportunities for emphasis in specialized areas of study. An important corollary is the development of the ability to think logically, creatively, and quantitatively, and the skills necessary to effectively communicate both fundamental and applied knowledge. This unified approach provides an inherently flexible base that permits graduates to fill general or specialized positions in industry, government, and private practice or to pursue advanced degrees after graduation.

The College of Engineering is comprised of two academic programs: Engineering and Technology. The Engineering Program offers courses leading to the degree of Bachelor of Science in Engineering with professional concentrations in civil; electrical, computer, and information; or mechanical engineering. The Technology Program offers an Associate in Science degree with a major in Technology and a Bachelor of Science degree with a major in Technology. The engineering degree program is accredited under the General Basic-Level Criteria by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700. The Technology degree programs are not accredited by ABET.

Engineering Program

Professor Engelken, Director of ECIE; Professor Parsons, Director of CE; Assistant Professor Edgar, Director of ME; Professor Gillanders; Associate Professors Mixon, Sherman; Assistant Professor Haran; Instructors Edvington, Stewart, Walker, Wood

The engineering profession is concerned with the innovative, effective, and economic synthesis of ideas, materials, and personnel to create the products, systems, and services needed by society. The knowledge and skills that comprise modern engineering must be developed upon strong foundations of mathematics, the physical sciences, and applied engineering sciences. Because responsible engineering must contribute to the overall goals and values of our society, engineers must develop a basic knowledge and appreciation of mankind’s cultural and social history as well as ethical issues. Engineering must reflect an ever growing body of knowledge that includes state-of-the-art professional practice, understanding, and values which require a lifetime of continuing education. Therefore, the education needed to enter and practice the engineering profession is comprehensive and demanding regardless of the chosen engineering field.

PROGRAM EDUCATIONAL OBJECTIVES

The overall educational objectives of the Engineering Program at Arkansas State University are:

1. A good understanding of mathematics, science, and engineering, and an ability to apply this knowledge in engineering practice;
2. An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data;
3. An ability to function on multi-disciplinary teams;
4. An ability to identify, formulate, and solve engineering problems;
5. An understanding of professional and ethical responsibility;
6. An ability to communicate effectively, both orally and in writing;
7. The broad education necessary to understand the impact of engineering solutions in a global and societal context;
8. A recognition of the need for, and an ability to engage in, life-long learning; and
9. A knowledge of contemporary issues.

With respect to the second overall educational objective:

1. All graduates will have an ability to use the techniques, skills, and modern tools necessary for entry-level practice in their area of concentration;
2. All graduates will be able to analyze and design a system, component, or process to meet desired needs in their area of concentration; and
3. Some graduates will have developed the necessary skills and knowledge to be accepted and be successful in a graduate education program.

The engineering degree program is accredited by the Engineering Accreditation Commission of ABET, and thus, has established a system to determine and periodically evaluate the above educational objectives as necessary to satisfy constituent needs, to implement a curriculum and program as needed to achieve the educational objectives and desired outcomes, to provide ongoing evaluation and assessment that demonstrates achievement of these objectives and outcomes, and that uses the assessment results to improve the effectiveness of the program.

BACHELOR OF SCIENCE IN ENGINEERING

The Engineering Program curriculum is structured to give all students a working knowledge of the engineering sciences and a progressive level of understanding and participation in the overall design process. The Bachelor of Science in Engineering degree currently offers professional concentration electives in civil; electrical, computer, and information; and mechanical engineering; or an individually planned elective program that may combine or cut across traditional fields of engineering and applied sciences.

All prerequisite engineering courses must be completed with a grade of “C” or better before attempting the subsequent engineering courses. In addition to the University requirements for all Baccalaureate Degrees, the Bachelor of Science in Engineering requires that one of the two following conditions be met: (1) "C" or better in each course in the 43 hour concentration area or (2) 2.5 or greater grade point average in the 43 hour concentration area.

Transfer credits are acceptable under criteria consistent with the Accreditation Board for Engineering and Technology, the policies of Arkansas State University, and the approval of the College of Engineering. The transfer student is required to complete at least 32 semester hours of engineering courses at Arkansas State University for graduation.

Engineering students eligible for the Honors Program are encouraged to participate in the program. Engineering courses taken for Honors credit must be approved by the College of Engineering and the Director of the Honors Program. The final course in the student’s honors program can be an Honors Independent Study (HNRS 4003-6) or Honors Senior Thesis (HNRS 4893-6). Either course would be valuable in preparation for graduate studies.
Major in Engineering
Bachelor of Science in Engineering

General Education Curriculum for Engineering Baccalaureate Degrees

Sem. Hrs.
Communication ................................................................. 6
ENG 1003, Composition
ENG 1013, Composition II

Mathematics ................................................................. 4
Math 2024, Calculus I

Critical Thinking ........................................................ 3
SPECH/SCOM 1203, Speech Communication

Understanding Global Issues ......................................... 3
One of the following courses:
ANTH 2233, Introduction to Cultural Anthropology
GEOG 2613, Introduction to Geography
HIST 1013, World Civilization since 1660
HIST 1023, World Civilization since 1660

Arts and Humanities .................................................. 6
Fine Arts. Select one of the following:
MUS 2503, Fine Arts - Musical
THEA 2503, Fine Arts - Theatre
ART 2503, Fine Arts - Visual
Humanities. Select one of the following:
ENG 2003, Introduction to the Literature of the Western World
ENG 2013, Introduction to the Literature of the Western World II
PHIL 1103, Introduction to Philosophy

Social Sciences** ......................................................... 6
Select two of the following (at least one course must be selected from HIST 2763, HIST 2773, or POSC 2103.)
ECON 2513, Principles of Macroeconomics
ECON 2533, Economic Issues and Concepts
HIST 2763, The United States to 1876
HIST 2773, The United States since 1876
POSC 1003, Introduction to Politics
PSY 2013, Introduction to Psychology
SOC 2213, Introduction to Sociology

**The State Minimum General Education Core allows engineering students to substitute higher-level math and/or science courses as part of this requirement. One of the additional required support courses is used to satisfy this requirement in addition to the above.

Science ................................................................. 7
Life Sciences:
Biol 1063, People and the Environment
Physical Sciences:
CHEM 1013, General Chemistry I, and CHEM 1011, Laboratory for General Chemistry I

Health and Wellness ...................................................... 2
PE 1002, Concepts of Fitness

Enhancements .............................................................. 4
PHYS 2034, University Physics I (Multimedia)

Other Rules:
A course may be counted in satisfaction of only one area requirement.
At least one History course must be selected.
With the exception of English courses (ENG), no more than two selections may have the same prefix. A science course and its laboratory will count as a single selection.

Areas of Concentration:

In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Science in Engineering requires that one of the two following conditions be met: (1.) "C" or better in each course in the 43 hour concentration area or (2.) 2.5 or greater grade point average in the 43 hour concentration area.

Civil Engineering
ENG 4473, Fluid Mechanics ........................................... 3
ENG 3471, Laboratory for Fluid Mechanics ...................... 1
CE 2203, Civil Engineering Presentations .................... 2
CE 2223, Plane Surveying ........................................... 3
CE 3513, Structural Analysis I .................................... 3
CE 3523, Civil Engineering Materials ......................... 3
CE 3533, Structural Analysis II ................................ 3
CE 3523, Engineering Hydrology ................................. 3
CE 3623, Introduction to Environmental Engineering .... 3
CE 3723, Water and Waste Systems ......................... 3
CE 4223, Transportation Engineering ....................... 3
CE 4243, Reinforced Concrete Design OR CE 4283, Structural Steel Design ..................... 3
CE 4253, Soil Mechanics ............................................ 3
CE 4251, Laboratory for Soil Mechanics .................... 1
**Engineering Electives ............................................. 6

Electrical, Computer, and Information Engineering
ECIE 3401, Laboratory for Electronics I ....................... 1
ECIE 3403, Electronics I ........................................... 3
ECIE 3513, Electrical Circuits II .............................. 3
ECIE 3333, Digital Electronics I .............................. 3
ECIE 3343, Engineering Fields and Waves I .................. 3
ECIE 3353, Continuous and Analog Systems ............ 3
ECIE 4323, Electrical Machinery OR ECIE 4353, Power Systems ................. 3
ECIE 4373, Electronics I OR ECIE 3363, Semiconductor Materials and Devices I ....... 3
ECIE 4371, Intermediate ECIE Laboratory OR ECIE 3303, Laboratory for Semiconductor Optoelectronics/Materials and Devices I ......... 1-3
ECIE 4383, Digital Electronics II, ECIE 4333, Communications Theory, OR ENGR 4313, Control Systems .................................. 3
**ECIE or Computer Science Electives ......................... 7
**Approved Electives .............................................. 6
**Engineering Elective ............................................ 4-2

Additional required support courses:
MATH 2214 and MATH 3254, Calculus II and III .............. 8
MATH 4403, Differential Equations ............................. 3
Science Elective ....................................................... 4

TOTAL ...................................................... 132

190 191
The Associate in Science degree with a major in Technology will allow the student to meet the general education requirements, the degree preconditions, and utilize the opportunities to exercise work experience or prior education that may contribute to this degree option. The program allows students to participate in a two-year program to meet the needs of industry while preserving the option of earning a baccalaureate degree in the future. It permits industry to meet its educational and training requirements when a four-year degree is not warranted. The student must complete a minimum of 62 credit-hours of work and must adhere to all policies established by the university. Flexibility is provided through counseling and the review of prior experience which may be substituted for formal college credit. The Associate in Science—Technology is not accredited by the Accreditation Board for Engineering and Technology, Inc.

The Bachelor of Science degree with a major in Technology offers four emphasis areas: Technical Studies, Technology Management, and Manufacturing-Industrial Technology. Each program will be tailored to meet the needs of the career specifications designated by the student.

The Technical Studies option is designed to permit the student to tailor a program in accordance with his/her specific interests for which a traditional baccalaureate degree is not attainable. Students who have successfully completed some of the degree requirements in an occupational environment may continue their education under this educational umbrella. The Technology Management option is designed to prepare a student to apply theories, perceptions, and principles established in the humanities and social and behavioral sciences, as well as sound business practices in a technology-oriented environment. Graduates with this emphasis will serve as liaison between manufacturing or industrial production and the administrators of a company. Consequently, a sound understanding of the basic principles of business, personnel management, and management techniques will be mandatory.

The Manufacturing-Industrial Technology option is focused to develop and train qualified personnel capable of directing the production, distribution, and management of products and services. The student, upon completion of the program, will have the ability to apply the principles of mathematical and physical sciences as related to technology, in the manufacturing-industrial setting.

Prior Learning Assessment is a program that enables students to earn college credit for learning acquired outside of the traditional college classroom. Seminars are provided to assist students in the development of prior learning portfolios. Upon completion of the assessment process, up to 25 percent of the degree requirements may be awarded using TECH 3721-9, Technical Career Subjects and/or TECH 1891-9, Occupational Studies Credit.

Students who are graduates of two-year occupational programs may be considered as candidates to enroll in the Bachelor of Science—Technology degree program. The Bachelor of Science Technology degree is not accredited by the Accreditation Board for Engineering and Technology, Inc.

**Major in Technology**

**Associate in Science**

**Bachelor of Science**

**General Education Requirements:**

Refer to index for General Education Curriculum for Associate in Science Degree .................................................. 35

Specific General Education Recommendations:

The following General Education Courses are recommended for this major:

- ECON 2313, Principles of Macroeconomics
- MATH 1333, Plane Trigonometry
- PHY 2054, General Physics I
- SCOM 1203, Oral Communication

**Requirements for Degree:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 1413, Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2883, Principles of Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2883, Introduction to Quality Control OR TECH 3773, Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Technology Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Electives:**

| Technical Electives                                                   | 9         |
| **Total**                                                             | **62**    |

**Major in Technology**

**Bachelor of Science**

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees .................................................. 46

Specific General Education Recommendations:

The following General Education Courses are recommended for this major:

- ECON 2313, Principles of Macroeconomics
- MATH 1333, Plane Trigonometry
- PHY 2054, General Physics I
- SCOM 1203, Oral Communication
- ENG 3043, Technical Writing or ENG 3013, Practical Writing

**Core Requirements for Degree:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 1413, Engineering Graphics OR CIT 3013 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3153, Organizational Management OR Sociology OR Psychology Elective</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2883, Principles of Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2883, Introduction to Quality Control OR TECH 3773, Statistics</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3803, Industrial Safety</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4813, Operations Systems Research</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4823, Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>
Emphasis Area: (select one of the five options):

**Computer Aided Drafting and Design:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 1423, Beginning Solid Modeling/CADKEY I</td>
<td>3</td>
</tr>
<tr>
<td>TECH 1803, Computer Aided Drafting and Design I</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2453, Technology Design - Solid Works I</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2803, Computer Aided Drafting and Design II</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3413, AutoCAD 2D/3D Inventor</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3423, Intermediate Solid Modeling/CADKEY II</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3433, AutoCAD 3-D Modeling</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3463, Advanced Technology Design - SolidWorks II</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3473, Structural Drafting</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3803, Computer Aided Manufacturing (CAM)</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3873, Tool Design</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4843, Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4883, Work Center Management</td>
<td>3</td>
</tr>
<tr>
<td>Technology Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL** 33

**Computer Systems:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 1013, Networking Essentials - Cisco I</td>
<td>3</td>
</tr>
<tr>
<td>TECH 1023, Router Technologies - Cisco II</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2033, Advanced Routing and Switching - Cisco III</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2043, WAN Technologies and Design - Cisco IV</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2053, Building Scalable Networks - Cisco V</td>
<td>3</td>
</tr>
<tr>
<td>TECH 2063, Remote Access Networks - Cisco VI</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4843, Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4883, Work Center Management</td>
<td>3</td>
</tr>
<tr>
<td>Technology Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL** 33

**Manufacturing - Industrial:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3803, Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3833, Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3843, Manufacturing/Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3873, Tool Design OR TECH 3883, Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3883, Programming/Logic Control</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3873, Motion and Time Study</td>
<td>3</td>
</tr>
<tr>
<td>Technology Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

**TOTAL** 33

**Technology Management:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 3713, Financial Aspects</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3753, Legal Aspects</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4843, Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>Accounting/Management Electives</td>
<td>6</td>
</tr>
<tr>
<td>Management Electives</td>
<td>6</td>
</tr>
<tr>
<td>Technology Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL** 33

**Technical Studies:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 4843, Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4883, Work Center Management</td>
<td>3</td>
</tr>
<tr>
<td>Technology Electives</td>
<td>9</td>
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</table>

**TOTAL** 33

**Electives:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Electives</td>
<td>24</td>
</tr>
</tbody>
</table>

**TOTAL** 124

**Minor in Engineering**

One of the following:

- ENGR 4403 Statistics | 3 |
- ENGR 2423 Electric Circuits I and ENGR 2421 Laboratory for Electric Circuits I OR ENGR 2413 Mechanics of Materials and ENGR 2411 Laboratory for Mechanics of Materials | 4 |
- ENGR, AGEC, CE, ECIE, or ME prefixed courses of 2000, 3000 or 4000 level courses **+****

**TOTAL** 22-24

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**Notes:**

- ENGR 1412 is strongly recommended unless the student has already completed an appropriate computer applications or programming course or otherwise has a documented strong skills-base in computer applications.

- **No more than 4 credit hours of these additional 13-15 hours can be 2000-level.**

- **Under normal circumstances, no more than 3 credit hours of the 22 credit hour minimum for the minor can be special problems, independent study, internship, honors, senior thesis, or other non-standard courses under an engineering prefix, or honors prefix and engineering coordination. Any exceptions would have to be formally proposed, justified and approved ahead of time in writing by the student's engineering minor committee, the appropriate program director, the dean, and the departmental curriculum committee and would, only in extraordinary circumstances, exceed 6 credit hours of such courses (except if a new regular, multi-student course in the student's plan-of-study was being offered for the first time under a special problems designation).**

- "****The student should be aware that additional credit hours, for example from other engineering, mathematics, or science courses, may be indirectly required to satisfy all formal prerequisite and co-requisite requirements for the engineering courses designated for the minor, as per the ASU Undergraduate Bulletin. Any justified exceptions to the official bulletin-listed prerequisites and co-requisites would be considered on a case-by-case basis and have to be approved by the student's engineering minor committee, the program director, and the instructor for the course."

- "****In addition, the awarding of a minor in engineering will require that the student has made a grade of C or better in all courses comprising the 22-24 credit hours or has a grade point average of 2.5 or above over these courses."

Students declaring a minor in engineering must first contact the relevant engineering program director as early as possible for appointment of an advisor and plan-of-study committee. The student and committee will develop a brief proposal to be approved by the program director and detailing remaining coursework in the context of the student's career and graduate education goals. No more than 12 credit hours of courses completed prior to, or commencing earlier than 10 days before, this approval may be used to satisfy minor requirements.

**DEPARTMENT OF ENGINEERING COURSE DESCRIPTIONS**

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

**Agricultural Engineering (AGEN)**

**1113. Engineering Analysis** Techniques of engineering analysis, solutions, and interpretation of engineering problems, systems, and data.

**1133. Machine Tools and Welding** Principles of machine tool operations; current techniques in arc and gas welding. Lecture two hours, laboratory two hours per week (D).
2153. **Farm Mechanics** Advanced training in selection and care of tools and machinery; welding, metal work, plumbing, forge work, wood work, and electricity. Lecture one hour, laboratory four hours per week. (Not for engineering credit) (D)

2173. **Farm Power and Machinery** Farm mechanization, gas engines, tractors, plows, mowers, planters, selection, cost operation, and servicing farm machinery. Lecture two hours, laboratory two hours per week. Prerequisite: MATH 1023 or adviser consent. (D)

3113. **Soil and Water Engineering** Instruction and field practice in the basic engineering principles of erosion control, drainage, irrigation, and dumpy level. Lecture two hours, laboratory two hours per week. Prerequisite: MATH 1023 or equivalent. (D)

3123. **Conservation Engineering** The study of precipitation, infiltration, evaporation, transpiration, runoff, and the engineering principles for erosion control, drainage, and soil and water conservation structures. Prerequisite: "C" or better in CE 2223. Corequisite: ENGR 3473. (D)

3133. **Agricultural Machinery** Analysis and design of agricultural machinery. (D)

3143. **Agricultural Machinery Management** Principles of machinery selection including power, size, cost, matching tractor power to machine size, and a review of microcomputer software for machinery management. (Not for engineering credit) Prerequisites: "C" or better in AGEN 2173 and any introductory computer course. (D)

3153. **Grain Processing** Methods of grain drying, handling, storing, cleaning, and sizing. Design of grain drying and storage facilities. (D)

4113. **Machinery Design I** Application of the theory developed in the fundamental engineering courses to the design of machine elements. Prerequisite: "C" or better in ENGR 2413. (D)

4133. **Animal Environment** Management of environmental factors affecting physiological responses and the production performances of animals and the design of a facility with controlled environment. Corequisite: ENGR 3443. (D)

4143. **Building Construction** Planning, arranging, and laying out buildings for economy, convenience, and appearance; materials, cost and repair; concrete masonry; plumbing. Lecture two hours, laboratory two hours per week. Prerequisite: "C" or better in engineering credit) (D)

4153. **Energy Conversion** Combustion analysis of hydrocarbon fuels. Transmission of energy by mechanical, electrical, and hydraulic means. Selected topics in mass transfer and fluid mechanics. Prerequisite: "C" or better in ENGR 3443. (D)

4163. **Design of Electrical Controls for Agricultural Systems** The selection and design of electrical and control circuits to provide light, heat, and power for agricultural production and processing enterprises. Prerequisite: "C" or better in ENGR 2423. (D)

4173. **Design of Heating, Ventilating, and Air-Conditioning Systems** Design of HVAC systems to modify environmental conditions. Prerequisite: "C" or better in ENGR 3443. (D)

4183. **Design of Irrigation Systems** Design of irrigation systems; includes water distribution, land requirements, surface and subsurface irrigation systems. Field trips are required. Prerequisite: "C" or better in ENGR 3473. (D)

Civil Engineering (CE)

2202. **Civil Engineering Presentations** An introduction into computer aided design (CAD) for civil engineers with applications in civil engineering drawings. Four different types of civil engineering drawings will be developed and presented in the course. Prerequisite: "C" or better in CE 2223. (S)

2223. **Plane Surveying** Theory and practice of plane surveying. Lecture one hour, laboratory four hours per week. Prerequisite: MATH 1033 or equivalent. (F)

3213. **Structural Analysis I** Analysis of determinate and indeterminate structures and trusses, shear and moment diagrams, influence lines and moving loads, deflection calculations, and computer solutions. Lecture three hours per week. Prerequisite: "C" or better in ENGR 2403. Corequisite: ENGR 2413. (S)

3223. **Civil Engineering Materials** Theory and application of materials used in civil engineering. Aggregate testing, concrete testing, concrete mix design, asphalt testing, asphalt mix design, timber testing. Lecture two hours, laboratory three hours per week. Prerequisite: "C" or better in ENGR 2411 and ENGR 2413. (F)

3233. **Structural Analysis II** Analysis of indeterminate structures and trusses using approximate analysis, area moment and conjugate methods, virtual work, slope deflection, and moment distribution. Computer analysis by finite elements. Lecture three hours per week. Prerequisites: "C" or better in CE 2202 and CE 3213. (F)

3253. **Engineering Hydrology** Studies of the hydrologic cycle, solar radiation and meteorology, precipitation, evaporation, transpiration, groundwater flow, hydrographs, flood routing, and probability concepts. Lecture three hours per week. Prerequisite: "C" or better in CE 2202 and CE 3213. (D)

3263. **Introduction to Environmental Engineering** Introduction to environmental engineering fundamentals, concepts of mass balance, water and wastewater treatment, air pollution, solid waste management, and hazardous waste. Lecture three hours per week. Prerequisites: Junior standing, BIOL 1063, CHEM 1013 and MATH 2204. (S)

3273. **Water and Waste Systems** Projection of water requirements and wastewater flows, water and waste systems hydraulics, design of water distribution systems, sanitary sewers, stormwater collection systems, and pumping systems. Lecture three hours per week. Prerequisite: "C" or better in CE 2202 and ENGR 3473. (S)

4213. **Introduction to Finite Element Analysis** Theory and application of energy concepts and structural mechanics required for the development of finite element methods are presented. Applications to beams, trusses, torsion, etc. are presented. Prerequisites: "C" or better in ENGR 2413. (F)

4223. **Transportation Engineering** Provides the engineering student with an understanding of the principles of highway design, pavement designs, highway economics, traffic theory and other areas related to traffic engineering. A highway design project is required. Prerequisites: "C" or better in CE 2202. (S)

4233. **Foundation Engineering** Prediction of soil variation; soil investigations; stress distribution and bearing capacity; dewatering analysis and procedures; and settlements. The design and analysis of retaining structures and lateral earth pressures; shallow foundations, pile foundations. Prerequisites: "C" or better in CE 2202, and CE 4253. (S)

4243. **Reinforced Concrete Design** Design of beams with bending; and shear stress; splicing design and deflection calculations; design columns. Prerequisites: "C" or better in CE 3213. (F)

4251. **Laboratory for Soil Mechanics** Experiments in analysis of soil systems including index properties, permeability, compressibility and shear strength. Corequisite: CE 4253. (F)
4253. Soil Mechanics  Physical properties of soils as used in design; specific gravity, grain size distribution, plasticity, shrinkage, permeability, compressibility, consolidation and shear strength. Foundation design for consolidation. Corequisites: ENGR 3473 and CE 4251. (F)

4263. Water and Waste Treatment  Design of physical, chemical and biological unit processes for treatment of water, wastewater and sludges. Advanced wastewater treatment processes as presented. Student papers on selected waste treatment applications are required. Prerequisites: "C" or better in CE 3273. (S -even)

4273. Advanced Surveying  Techniques of route, rural and urban, construction, and photogrammetric surveying. Elements of electronic measurements. Legal aspects of surveying. Lecture two hours, laboratory three hours per week. Prerequisite: "C" or better in CE 2223. (S -odd)

4283. Structural Steel Design  Design of structural systems in steel. Design of tension members, compression members and beams with bending and axial stresses. Prerequisite: "C" or better in CE 3213 and ENGR 3413. (S)

Electrical, Computer, and Information Engineering (ECIE)

1303. Introductory Electrical Engineering Practicum  Introduction to engineering and electrical engineering by branch and function (including analysis, design, research, and development). Engineering professionalism and infrastructure. Introductory engineering theory, calculations, computer and information technologies, and laboratory experimentation represented by electrical circuits. Lecture two hours and laboratory two hours per week. Corequisite: MATH 1013, MATH 1054 or MATH 2204. (D)

3302. Computer and Graphics Applications in Electrical Engineering  Modern computer applications, graphic techniques, and software specific to electrical engineering. Circuit schematics and simulation. Data acquisition, processing, and presentation. Multidimensional graphics. Printed circuit board design. Prerequisites: "C" or better in ECIE 3313 and ECIE 3403. (D)

3303. Laboratory for Semiconductor/Optoelectronic Materials and Devices I  Experimentation and demonstrations in semiconductor growth and deposition, material analysis and characterization, doping, and processing. Fabrication of simple devices. Metallization, etching, and other manufacturing processes. Lecture one-two hours, laboratory five-hour hours per week. Prerequisite: CHEM 1011, PHYS 2034, and "C" or better in CE 3403. Corequisite: ECIE 3363. (S -even)

3311. Electric Circuits II  Transient analysis, average power, RMS values, mutual inductance; resonance; network theorems and principles; polyphase networks; complex power. Prerequisite: MATH 2214 and "C" or better in ENGR 2423. (S)

3331. Laboratory for Digital Electronics I  Experimentation and design with digital electronic and computer components and circuits including logic gates, flip floppy, counters, and registers. Practical applications in timing and control. Logic families such as TTL, ECL, and CMOS. Prerequisite: "C" or better in ENGR 2421. Corequisite: ECIE 3333. (D)

3332. Digital Electronics I  Introduction to the analysis and design of digital and computer circuits; binary arithmetic, combinational logic, sequential logic, registers, counters, adders, comparators, computer organization. Prerequisite: "C" or better in ENGR 2423. (F, SU)

3333. Engineering Fields and Waves I  Study of time-invariant electric and magnetic fields in free space and in materials, electrical current flow as a function of electric field, magnetic flux, interaction of magnetic fields with electrical current and voltage, electrical and magnetic potentials, time-changing electric and magnetic fields, and introduction to Maxwell’s equations. Prerequisites: MATH 3254, "C" or better in ECIE 3313. (F)

3353. Continuous and Analog Systems  Methods of analysis of continuous and analog systems and associated synthesis, simulation, and design, system response in the time and frequency domains, Laplace transforms, Fourier series and transforms, transfer functions, and convolution. Prerequisite: "C" or better in ECIE 3313. Corequisite: MATH 4403. (F)

3363. Semiconductor Materials and Devices I  Semiconductor materials and theory of solid state electronic devices. Semiconductor growth and processing techniques. Semiconductor parameters such as bandgap, mobility, carrier densities, diffusion length, carrier lifetime, and energy level distribution. P-n junctions and Schottky barriers. Constraints and limitations on practical devices. Prerequisite: CHEM 1013, PHYS 2034, and "C" or better in ENGR 3403 and ENGR 3443. (S -even)

3371. Laboratory for Computer Engineering I  Design and experimentation in computer electronics, hardware, communication, and information coding to support knowledge gained in the partner course ECIE 3373, Computer Engineering I. Prerequisite: CS 2183 and "C" or better in ECIE 3333. Corequisite: ECIE 3373. (D)

3373. Computer Engineering I  Introduction to computer engineering including fundamental electronic devices and circuits, architecture, operating systems, intramachine signal communication, and fundamental coding algorithms. Prerequisite: CS 2183 and "C" or better in ECIE 3333. (D)

3401. Laboratory for Electronics I  Basic laboratory experiments in electronic circuits and solid state electronic devices. Corequisite: ECIE 3403. Prerequisite: "C" or better in ENGR 2421. (F, S)

3403. Electronics I  Theory, analysis, and introductory design of diode, bipolar junction transistor, operational amplifier, and field effect transistor devices and circuits. Prerequisite: "C" or better in ENGR 2423. (F, S, SU)

4303. Engineering Fields and Waves II  Study of electromagnetic waves in free space, dielectrics, and conductors; transmission lines, generalized polarization, reflection, refraction, and diffraction, waveguides and resonators, antennas, and radiation. Prerequisites: MATH 4403 and "C" or better in ECIE 3343. (D)


4321. Laboratory for Electrical Machinery  Experiments dealing with motor, generators, transformers, and associated measurements and controls. Prerequisite: "C" or better in ENGR 2421. Corequisite: ECIE 4323. (D)

4323. Electrical Machinery  Introduction to the analysis and design of electromechanical energy conversion systems, magnetic circuit theory, general transformer and machinery theory, DC and AC motors and generators. Prerequisite: "C" or better in ECIE 3313 or ENGR 3473, and ENGR 3423. (D)

4333. Communications Theory  Frequency spectra of time signals. Review of Fourier series and transforms. Signal mixing, modulation, and demodulation. AM and FM broadcasting techniques and bands. Pulsed and digital communication modes. Prerequisite: "C" or better in ECIE 3333 and ECIE 3403. (D)
4344. Microprocessor Applications A microcomputer hardware interfacing course for senior level engineers. A survey of small computers and their application to engineering functions including control, sensing, and computation. The concept of using assembly language and other languages as control programming languages are introduced. Prerequisites: "C" or better in ECIE 3333, and ECIE 3331. (D)

4353. Power Systems Generation, transmission, and distribution of large scale electrical power, associated energy losses and practical design problems/complications. Transmission line analysis. Three phase power networks. Load monitoring and control. Prerequisite: "C" or better in ECIE 3313 and ENGR 3423. Corequisite: MATH 4403. (D)

4363. Optical Electronics Review of electromagnetic waves, optics and semiconductors. Light detectors. Sources such as LED’s, laser diodes, and lasers. Optical fibers. Prerequisites: "C" or better in ECIE 3343 or ECIE 3363. (D)

4371. Intermediate Electrical Engineering Laboratory Advanced design-oriented experiments in analog electronic and AC electrical devices and circuits. Corequisite: ECIE 4373. Prerequisite: "C" or better in ECIE 3401. (S -odd)

4373. Electronics II A continuation of ECIE 3403 with emphasis on the analysis, simulation, design and performance of operational amplifier systems, frequency response, integrated circuits and power and waveshaping circuits. Prerequisite: "C" or better in ECIE 3313, ENGR 3443 and ECIE 3403. (S -odd)

4381. Laboratory for Digital Electronics II Introduction to microcomputer architecture, programming, interfacing, and design applications. Prerequisite: "C" or better in ECIE 3331 or ECIE 3401. Corequisite: ECIE 4383. (D)

4383. Digital Electronics II Continuation of the study of digital circuit design with emphasis on the design of larger systems and use of LSI components. Register transfer logic, computer interfacing and design, microcomputer-based system design. Prerequisite: "C" or better in ECIE 3333. (D)

4393. Discrete and Digital Systems Analysis and application of discrete/digital systems including finite difference-based recursion equations, z-transforms, delay elements and memory devices, discrete/digital simulation of continuous/analog systems, and digital filter applications. Prerequisite: "C" or better in ECIE 3353. (D)

4703. Signal and Information Processing Information processing theory and applications including discrete-time signals, time-domain systems, transform-domain representation of discrete-time signals, digital processing of continuous time signals, digital filter structure and design, propagation of signals and associated noise and distortion, and analysis of finite word length effects. Prerequisite: "C" or better in ECIE 4333 or ECIE 4593. (D)

4713. Semiconductor Materials and Devices II Continuation of ECIE 3363, including configuration and operation of advanced solid state junction devices. Large scale to small scale integration/miniatuization of electronics into integrated circuits. Metalization/shaping technology and manufacturing aspects. Prerequisite: "C" or better in ECIE 3363. (D)

4723. Power Electronics and Control Electrical and electronic circuits for switching, relaying, shaping, and amplifying large current, voltage, and power signals, including relays, transformers, MOSFET’s, diacs, triacs, SCR’s, unijunction transistors, optorelays, optocouplers, rectifiers, and push-pull amplifiers. Introduction to digital control including programmable logic controllers. High voltage circuitry. Representative industrial applications and practical constraints and specifications. Prerequisites: "C" or better in ECIE 3333, ECIE 3403, and ECIE 3401. (D)

4733. Laboratory for Semiconductor / Optoelectronic Materials & Devices II Continuation of ECIE 3303. Advanced semiconductor characterization, processing, device fabrication, metalization, and packaging. The second half of the course will involve original experimentation culminating in a comprehensive manuscript in journal format. Prerequisite: "C" or better in ECIE 3303. Corequisite: ECIE 4713.

Engineering (ENGR)

1402. Concepts of Engineering An introduction to the various engineering disciplines. Topics include conservation principles, elementary measurement techniques, teamwork, and an introduction to technical practices. Prerequisite: 19 Math ACT or MATH 1023. (F, S)

1403. Engineering Computer Solutions Problems encountered in different fields of engineering; analysis and solution to these problems. Prerequisite: MATH 1023 or equivalent. Lecture two hours, laboratory two hours per week. (D)

1412. Software Applications for Engineers An introduction to software applications used by the various engineering disciplines. Technical word processing and the use of spreadsheets as a mathematics tool are developed. Accepted practices of data presentation and an introduction to presentation graphics are covered. Prerequisite: 19 math ACT or MATH 1023. (F, S)

1413. Engineering Graphics Emphasis on visual aspects employing the techniques of computer aided drafting and design (CADD) with modern engineering graphic principles. Lecture one hour, laboratory five hours per week. (Cross listed as TECH 1413) (D)

2403. Statics Principles of static equilibrium; analysis of structures; friction; center of gravity; moment of inertia; and product of inertia. Prerequisites: MATH 2204, and "C" or better in ENGR 1402. (F, S, SU)

2411. Laboratory for Mechanics of Materials Material will be tested in the laboratory consistent with topics covered in Mechanics of Materials course, which will include strain measurement testing machines and properties of materials. Laboratory two hours per week. Corequisite: ENGR 2413. (F, S)

2413. Mechanics of Materials Stress and deformation of members in tension, compression, torsion, and bending. Columns, statically indeterminate beams, and simple connections. Prerequisite: "C" or better in ENGR 1412 and ENGR 2403. (F, S, SU)

2421. Laboratory for Electric Circuits I Basic experimentation consistent with the theory in ENGR 2423. Prerequisites: ENG 1013, and "C" or better in ENGR 1402. Corequisite: ENGR 2423. (F, S)

2423. Electric Circuits I The fundamental laws of circuit theory applied to resistive networks; network topology; mesh currents and node voltages; network theorems; one-terminal and two-terminal pair resistive networks. Time response functions of R-L and R-C circuits and introduction to steady-state AC analysis. Prerequisite: "C" or better in ENGR 1412 and corequisite of MATH 2214. (F, S, SU)

3413. Introduction to Design The task of design, which includes the formulation problem, approaches to design problems, analysis, material selection and economics, is considered in the design decisions from conception to final product. Prerequisites: "C" or better in ENGR 2411, ENGR 2413, ENGR 2421 and ENGR 2423. (F, S)

3423. Dynamics Kinematics and kinetics of particles and of rigid bodies; work and energy, impulse and momentum; special topics. Prerequisites: PHYS 2034 and "C" or better in ENGR 2403. (F, S, SU)
433. Engineering Economics Quantitative techniques for decision making; break-even analysis, economic models, gaussian distributions, inventory control, production models, and mathematical programming. Prerequisite: MATH 1023. (F, S, SU)

434. Engineering Thermodynamics I Engineering thermodynamics involves studies in the area of properties of substances, work and heat, the first and second laws of thermodynamics, entropy, ideal gases, availability, irreversibility, and efficiency. Prerequisites: CHEM 1013 and "C" or better in ENGR 2403. (F, S, SU)

435. Materials Science Structure and properties of solids; modification of structure for engineering purposes; characteristics of polymers, ceramics and metals. Prerequisite: CHEM 1013. (D)

436. Applied Robotics I Design of small robotic machinery. Course includes both hardware and software design. Students will be required to write and implement a robot control program in the BASIC programming language. Prerequisite: "C" or better in ENGR 3413 or consent of instructor. (D)

471. Laboratory for Fluid Mechanics Experiments in fluid phenomena which emphasize the topics covered in ENGR 3473. Formal laboratory reports will be required. Laboratory two hours per week. Corequisite: ENGR 3473. (F, S)

473. Fluid Mechanics Basic fundamentals of fluid properties, fluid statics, fluid equations, viscous effects, and ideal fluid flow are applied to engineering problems in closed conduits, open channels, and fluid measurements. Prerequisite: "C" or better in ENGR 2403. (F, S, SU)

49V. Engineering Internship Students complete a supervised work experience involving practical application of the knowledge and skills acquired in engineering courses. Internships (minimum of 50 hours of work per credit hour awarded) are arranged by the student, an internship sponsor, and a supervising faculty member. Progress and final reports are required. Maximum degree credit for this course is three hours. Prerequisite: consent of program director. (F, S, SU)

4453. Numerical Methods for Engineers Numerical methods and computational techniques for solving engineering design problems. Prerequisite: MATH 4403. (F, S)

4473. Senior Design Practicum Interdisciplinary group work on a selected design problem from conceptualization through detailed final design. Comprehensive final reports and presentations to faculty are required. Lecture studies include project management, technical issues, and effective communications. Lecture one hour, laboratory six hours per week. Prerequisite: "C" or better in ENGR 3413, senior standing, and consent of instructor. (F, S)

491-2-3. Special Problems in Engineering Individually directed problems in engineering for juniors and seniors. Must be arranged in consultation with an engineering professor in the appropriate concentration area. The course outline and a project summary listing the goals and expectations must be approved by the student's advisor and the department chair. Written report is required. A copy must be filed in the department office. (D)

Mechanical Engineering (ME)

2502. Solid Modeling for Mechanical Engineers An introduction to solid modeling and computer aided drafting (cad) for mechanical engineers. Three-dimensional models of mechanical components are virtually constructed using appropriate software tools. (S)

3503. Mechanical Engineering Laboratory Theory and application of instrumentation for typical measurement techniques are used to evaluate the control/performance of mechanical and thermodynamic systems. Design of experiments using standard techniques and computerized data acquisition, reduction and analysis are used by the student. Accepted procedures for presentation of experimental results are emphasized. Prerequisites: MATH 4403 and "C" or better in ENGR 2423 and ENGR 3443. (D)

3504. Process Monitoring and Control Theory and application of instrumentation, measurement, and control of engineering systems. Prerequisites: MATH 4403 and "C" or better in ENGR 2423 and ENGR 3443. (F)

3513. Mechanical Vibrations Kinematics of harmonic and nonharmonic vibrations; system of one and several degrees of freedom, free and forced vibrations; self-excited vibrations. Prerequisites: MATH 4403 and "C" or better in ENGR 3423. (S)

3533. Engineering Thermodynamics II Application of first and second law concepts to actual and ideal cycles and processes. Prerequisites: BIOL 1063 and "C" or better in ENGR 3443. (S)

4503. Fluid and Thermal Energy Systems Analysis and design of components, systems, and processes using the fundamentals presented in Thermodynamics, Fluid Mechanics, and Heat Transfer. Corequisite: ME 4553, Prerequisites: "C" or better in ENGR 3443 and ENGR 3473. (F)

4513. Dynamics and Control of Machinery Dynamics analysis of mechanism including rigid body dynamics and balancing of machines. Introduction to linear mechanical systems, and the stability analysis of linear mechanical systems. Three hours lecture per week. Prerequisite: "C" or better in ENGR 3423. (D)

4523. Introduction to Finite Element Analysis Theory and application of energy concepts and structural mechanics required for the development of finite element methods are presented. Applications to beams, trusses, torsion, etc. are presented. Prerequisite: "C" or better in ENGR 2413. (F)

4533. Applied Robotics II Design of sophisticated robotic machinery. Course includes both hardware and software design. Students will be required to write and implement their own original control programs and mechanical designs. The primary control language will be the BASIC computer language. Prerequisite: "C" or better in ECIE 3333 or consent of instructor. ENGR 3463 is recommended. (D)

4541. Laboratory for Integrated Design, Modeling, and Analysis of Machine Components Three-dimensional solid modeling, linear stress analysis using the finite element method, and review of other modern virtual design techniques. Laboratory two hours per week. Corequisite: ME 4543. (F)

4543. Machine Design Analysis and design of mechanical system components using theoretical and empirical concepts coupled with computational modeling and numerical analysis. Prerequisites: "C" or better in ENGR 2413. (F, S)

4553. Heat Transfer Application of theories of heat transfer by conduction, convection, and radiation to manufacturing processes and industrial applications. Prerequisites: MATH 4403 and "C" or better in ENGR 2423, ENGR 3443, and ENGR 3473. (F)

4561. Introduction to Manufacturing Processes Laboratory Basic manufacturing experiments involving metal cutting, metal forming and other manufacturing techniques are conducted to assist with the understanding of the lecture material. Laboratory two hours per week. Corequisite: ME 4563. (F)

4563. Introduction to Manufacturing Processes Principles of manufacturing processes—including common material removal processes, the principles of metal casting and forming, and an introduction to polymers, composites, and non-traditional processes. Prerequisites: "C" or better in ENGR 2413 and ENGR 3453. (F)
4573. Mechanical System Design Capstone design course for mechanical systems. Teams of students will design and assemble a mechanical system which satisfies the specifications of a selected design problem. Progress reports, final reports, and an assembled final product will be required. Prerequisite: 'C' or better in ME 4543.

4583. (4 185 3) Energy Conversion Combustion analysis of hydrocarbon fuels. Transmission of energy by mechanical, electrical, and hydraulic means. Selected topics in mass transfer and fluid mechanics. Prerequisite: 'C' or better in ENGR 3443. (D)

4593. Design of Heating, Ventilating, and Air-Conditioning Systems Design of HVAC systems to modify environmental conditions. Prerequisite: 'C' or better in ENGR 3443. (S)

APPLIED SCIENCES: TECHNOLOGY

Technology (TECH)

(Most Technology courses have had no previous five-digit course numbers)

1013. Networking Essentials—Cisco I The study of router hardware and software. Topics include the OSI model, data link and network layer devices, IP addresses, subnet masking, cabling, topologies, writing closets, basic electrical and electronic issues in networks, and TCP/IP network-layer protocols. Prerequisite: Basic computer knowledge. (F)

1023. Router Technologies—Cisco II The second course in the study of router hardware and software. Topics include TCP/IP transport-layer protocols, flow control, IOS, router configuration, IP address configuration, RIP and IGRP routing protocols, IP traffic filtering, and routing problem solving. Prerequisite: TECH 1013. (S)

1413. Engineering Graphics Emphasis on visual aspects employing the techniques of computer aided drafting and design (CADD) with modern engineering graphic principles. Lecture one hour, laboratory five hours per week. (Cross listed as ENGR 1413) (F, S, SU)

1423. Beginning Solid Modeling CADKEY I CADKEY introduces the powerful tools to be used in 2 dimensional (2D) drafting, 3D generation as well as solid modeling applications. This integration, called "Hybrid Solid Modeling", is the combination of tools. This computer application in graphic techniques is software specific to technology as well as engineering design student, using design intent logic. Prerequisite TECH 1413. (F)

1803. Computer Aided Drafting and Design I A beginning course for the techni- cian, technologist, or engineer. The course includes involvement in the use of the computer to produce design and working drawings. In addition to computer usage, aesthetic, structural, mechanical and civil drawing are emphasized. (S-even)

1891-9. Occupational Studies Credit Through this course students with technical credit from an accredited institution may earn college credit. Course may be repeated. No more than 25 percent of the degree may be satisfied with this course and/or TECH 3721-9. (1-9 hours) (D)

2033. Advanced Routing and Switching—Cisco III A continuation of the study of router hardware and software. Topics include LAN switching, VLANs, LAN design, IGRP, Access Lists, IPX and Network Management. Prerequisite: TECH 1023. (F)

2043. WAN Technologies and Design—Cisco IV A continuation of the study of router hardware and software. Topics include WANs, WAN Design, PPP, ISDN, Frame Relay, and Network Management. Prerequisite: TECH 2033. (S)

2053. Building Scalable Networks—Cisco V Topics include: overview of scalable internetworks, managing traffic and access, managing IP traffic, extending IP addressings using VLMSs, configuring OSPF in single area, interconnecting multiple OSPF areas, configuring enhanced IGRP, optimizing routing update operation, and configuring BGP. Prerequisite: TECH 2043. (F)

2063. Remote Access Networks - Cisco VI Topics include: Learn how to build, configure, and troubleshoot a remote access network to interconnect central sites to branch offices and home offices. Students also learn how to control access to the central site, as well as to maximize bandwidth utilization over the remote links. Prerequisite: TECH 2053. (S)

2443. Introduction I-DEAS 10 Parametric Modeling techniques and concepts. Prerequisite TECH 1413. (S)

2453. Technology Design - Solid Works I Drawing and detailing with SolidWorks, a design automation software package used to produce parts, assemblies and drawing. Prerequisite TECH 1413. (F)

2803. Computer Aided Drafting and Design II An extension of CADD I, with the use of more integral parts of CAD. Prerequisite: TECH 1803 or instructor approval. (S-odd)

2863. Principles of Technology The role and function of technology development in human resources. Course provides an introduction to the concepts and philosophies of the technical work place and the use of technologies. (D)

2883. Introduction to Quality Control A fundamental course in quality control. Content deals with universal principles of quality assurance in a technical environment. Topics include mechanics of a quality system, planning a quality information system, quality practices, system elements and controls, and definitions of quality. (D)

3403. Pro / ENGINEER A study of types of parent/child relation using constraints in CAD/CAM. Prerequisites: ME 2502 and TECH 2453. (F)

3423. Intermediate Solid Modeling CADKEY II Continuation of Beginning Solid Modeling CADKEY I. Prerequisite TECH 1423. (S)

3413. AutoCAD Inventor This is a beginning level 1 course in CAD. This course is designed to demonstrate how AutoCAD is used in model parametric space. This course will only deal with 2d mechanical, electrical and civil aspects of CAD. Prerequisite: TECH 1413. (S)

3433. AutoCAD 3-D Modeling This is an Advanced level II course in CAD. This course is designed to demonstrate how to manage 3-D space; how to make 3-D sire frame, surface, and solid models; how to modify them; and how to display them. Prerequisite TECH 3443. (F)

3443. Advanced I-DEAS 10 Advanced Parametric Modeling techniques and concepts. Prerequisite: TECH 2443 (F)

3453. Advanced Technology Design - Solid Works II Continuation of Technology Design - Solid Works I. Prerequisite TECH 2453. (S)

3463. Pro / ENGINEER Advanced A study of advanced techniques and workarounds type of parent/child relation using constraints. Prerequisites: ME 2502 and TECH 3403. (D)

3473. Advanced Technology Design - Solid Works III Continuation of Technology Design - Solid Works II. Prerequisite TECH 3453. (S)

3483. Energy Conversion Combustion analysis of hydrocarbon fuels. Transmission of energy by mechanical, electrical, and hydraulic means. Selected topics in mass transfer and fluid mechanics. Prerequisite: 'C' or better in ENGR 3443. (D)

3493. Design of Heating, Ventilating, and Air-Conditioning Systems Design of HVAC systems to modify environmental conditions. Prerequisite: 'C' or better in ENGR 3443. (S)

3713. Fiscal Aspects An introduction to fiscal structures and problems encountered in the technically oriented enterprise. (S-odd)

3721-9. Technical Career Subjects Through this course students having work experience and/or company sponsored training will undergo portfolio assessment to determine credit hour award. Course may be repeated. No more than 25% of the degree may be satisfied with this course and/or TECH 1891-9. (1-9 hours) (D)
3753. Legal Aspects  An introduction to the types of legal problems encountered in the technically oriented enterprise. (S - even)

3761-3. Industry Special Topic  Addresses specific needs of business or industry. May be repeated for a maximum credit of six hours. (1-3 hours) (D)

3773. Statistics  Basic concepts and methods of statistics in a technical environment, including descriptive statistics, significant tests, estimation, sampling, and correlation. (D)

3801. Laboratory for Electrical Systems  Laboratory exploration of circuit concepts and techniques using instruction and the concepts as a tool. Laboratory two hours per week. (Special course fee: $70.00) (F-odd)

3803. Electrical Systems  Fundamentals and utilization of electric power through appropriate units of equipment and systems for heating, cooling, working, and controls; energy transmission and measurements; equipment selection, operation, maintenance, and evaluation for given tasks. Prerequisite: MATH 1033. (F)

3813. Programmable Logic Control  Introduction to programmable logic controllers. Topics will include programming basics, instruction sets, maintenance and troubleshooting, program editing and the use of EEPROM memory modules. Prerequisite: TECH 3803. (S)

3821. Technology Laboratory  Laboratory topic designed to address specific needs of the technology being studied or the needs of industry. May be repeated for credit. Maximum degree credit for this course is three hours. Laboratory two hours per week. (D)

3823. Mechanics I  Introduction to statics and dynamics at the technologist's level. Topics will include resultants and equilibrium of force systems, friction centroids, moments of inertia, plane motion, working energy. Prerequisite: MATH 1033. (F)

3833. Mechanics II  Properties and uses of metals, woods, concrete, concrete products as materials of construction; analysis and selection for technological applications such as pressure vessels, shafts, beams, and columns. Prerequisite: TECH 3823. (S)

3843. Manufacturing Materials and Processes  Structure and properties of metals and other materials used in manufacturing. Formation, treatment, and modification of materials through manufacturing processes. Advantages and disadvantages of alternative materials and processes for specific applications. Important emerging technologies. Prerequisite: CHEM 1003 or high school chemistry and MATH 1033. (S-odd)

3853. Computer Aided Manufacturing (CAM)  A study of 3D CAM software package that prepares NC programs for complex shapes and surfaces, basic contouring, drilling pocketing and geometric creations, including splines, ellipses, and lettering. Prerequisite: TECH 1803 or CADKEY experience. (S)

3863. Industrial Safety  An introduction of the basic concepts of safety and health. Topics include the role of the safety professional, social, legislative, and regulatory requirements as well as the concepts of hazard recognition, evaluation, and control. (D)

3873. Tool Design  Application of the theory developed in the fundamental technology courses to the design and fabrication of jigs, fixtures, and dies. Corequisite: TECH 3833. (F)

3883. Machine Design  Application of the theory developed in the fundamental technology courses to the design and/or selection of machine components such as journal and antifriction bearings, shafts, couplings, cams, gears, belts, chains, clutches, brakes, fasteners, and springs. Corequisite: TECH 3833. (S-odd)

3891-3. Occupational Internship  This course provides the student with an opportunity to obtain additional experience in their emphasis area. Course may be repeated. Maximum degree credit for this course is three hours. Adviser's approval is required. (1-3 hours) (F, S, SU)

4783. Manufacturing  Concepts and philosophies of manufacturing technology and their roles in factories. Prerequisite: Senior Standing in Technology. (S)

4801-3. Current Topics in Technology  This course is designed to address specific needs of technology or industry. May be repeated for credit. (1-3 hours) (D)

4813. Operations Systems Research  Quantitative techniques for decision making; break-even analysis, economic models, gaussian distributions, inventory control, production models, and mathematical programming. Prerequisite: MATH 1033. (D)

4823. Quality Assurance  The principles and practices of quality in manufactured products. Familiarization with industrial methods and equipment used in quality assessment. Basic topics include histograms, Pareto diagrams, control charts, acceptance sampling, process capability, cause and effect diagrams, reliability, visual inspection, and the relationship between quality and cost. Prerequisite: TECH 3773 or TECH 2883. (D)

4833. Electric Motors  Operation, installation, and troubleshooting of AC motors and electric motor control devices. Prerequisite: TECH 3803 or experience in electrical systems. (S-even)

4843. Labor Relations  Course will present the economic situation in which labor-management problems operate in a technological environment. The course will cover

4853. Hydraulic and Pneumatic Systems  This is a study of the basic industrial fluid power systems common to the field of automation, including basic principles, components, standards, symbols, circuits, and troubleshooting of hydraulic and pneumatic systems. Prerequisite: PHYS 2054. (D)

4863. Applied Robotics  This course includes basic robotics applications operating in varied environmental conditions, servo mechanisms with respect to task and functional operations, multiple functions, programming, computer control, preventative maintenance, areas of safety, and drive configurations to provide high equipment utilization and life. (F-odd)

4873. Motion and Time Study  Principles and practices of motion and time study including process charts, operation charts, motion summary, and time standards. (S-even)

4883. Work Center Management  A survey course that addresses the problems of managing a small working unit (such as a department) within a larger unit, such as a company. Topics to be addressed include: goal identification; staffing needs; monitoring of work process reporting; work center communications; and interpersonal relations within the work center. (S-odd)

4891-2. Special Problems in Technology  Individually directed problems in technology for juniors and seniors. Must be arranged in consultation with a technology faculty member and approved by the department chair. (D)
College of Fine Arts

Daniel J. Reeves, Dean

The mission of the College of Fine Arts is to provide nationally recognized innovative education, performances and programming in the visual and performing arts. Arkansas State University’s College of Fine Arts is the largest college of fine arts in the state. It comprises three departments: Art, Music and Theatre. Each has its own distinctive program, yet they share important common goals: to make students more aware of our intellectual and artistic heritage, to enhance abilities to think critically, to improve skills of effective communication, and to develop the rich potential of the artistically talented.

The College of Fine Arts offers intensive performance, technical, and studio training, studies in history and theory, and certified teacher preparation. Students can major or minor in each department and there are courses specifically designed for the non-major. In addition, the college also sponsors exhibitions, plays, concerts and recitals for the benefit of the entire campus and community. The College of Fine Arts complements the basic philosophy of the university, the importance of humanity, understanding, and expression.

Department of Art

Professor Curtis Steele, Chair; Professors Allen, Carlisle, Chaffee, Keech, Rowe, Salvest; Associate Professors Pendergrass, Vickrey; Assistant Professors Balducci, Gill, Gipson, Matthiessen.

MISSION STATEMENT

The Department of Art at Arkansas State University will provide an educational environment that fosters the creation and understanding of art.

Students in art develop insight, sensitivity, and perception toward all aspects of nature while building individual expressive responses. Aesthetic and functional values, creative ideas, and media skills are developed through instructional guidance and applied experience in the studio and classroom. Some of the courses listed here may involve field trips to Memphis Brooks Museum, The Arkansas Arts Center in Little Rock, or other regional art collections.

The Bachelor of Arts degree provides a liberal arts-fine arts education, allowing students to pursue their art interest without the additional demands and course work required by the professional BFA degree options. The BA with an art history emphasis is a suitable beginning for a student planning to work toward an advanced degree in art history.

The Bachelor of Fine Arts degree programs are designed to prepare students for professional careers as a classroom art teacher, graphic designer, or studio artist. The BFA with emphasis in Studio Art, Graphic Design, or Art Education is the initial professional degree, and it is the requisite degree for the student who plans to pursue a studio-oriented post-baccalaureate degree. A minimum 2.75 GPA in all courses with an ART prefix is required for the BFA degree.

The Bachelor of Science in Education degree in Art Education provides academic preparation and practicum experience for students planning to teach art in the public schools. Graduates are prepared for certification at K-12 levels. (See College of Education section for details on professional education requirements.) The degree programs are accredited by the National Association of Schools of Art and Design.

BFA/TRANSFER REVIEW POLICY

BFA review is viewed as a counseling/advising practice for all art students, and, in addition, it is an admissions screening procedure for students interested in pursuing the B.F.A. degree in Art. The BFA review should take place prior to the completion of spring semester Art Major Core courses.

Transfer review provides an opportunity for students joining us from other programs to acquire a realistic assessment of their status vis-a-vis our program. Ideally, the transfer review should occur prior to enrollment in ASU art department courses. Should the transfer student intend to enter the B.F.A. degree program, this review will serve as an admission screening process as indicated above.

Major in Art
Bachelor of Fine Arts


Refer to Index for General Education Curriculum for Baccalaureate Degrees

Specific General Education Requirements:

Students with this major must take the following:

- MUS 2523, Fine Arts-Musical Theatre
- ART/ARED 2303, Fine Arts-Fine Arts Theatre

B.F.A. Art Education Emphasis students must also take the following:

- PSY 2013, Introduction to Psychology
- HIST 2763, The United States To 1876
- OR
- HIST 2773, The United States Since 1876
- PSYC 2103, Introduction to United States Government

Major Requirements: 133 Sem. Hrs.

Art Major Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
<th>要求</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1013, Design I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 1023, Design II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 1033, Drawing I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 1043, Drawing II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 2583, Survey of Art History I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 2593, Survey of Art History II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total | 18 |

Studio Art Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2013, Design III</td>
<td>3</td>
</tr>
<tr>
<td>ART 3033, Drawing III (two semesters)</td>
<td>6</td>
</tr>
<tr>
<td>ART 3063, Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 3083, Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 3093, Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3103, Sculpture</td>
<td>3</td>
</tr>
</tbody>
</table>

Total | 21 |

Emphasis Area (Select one of the two options):

Studio Art

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Studio Emphasis Areas: Drawing, Painting, Printmaking, Photography, Ceramics, and Sculpture</td>
<td></td>
</tr>
<tr>
<td>(At least 15 of the 30 hours must be taken at the 3000 level in one Art Studio Emphasis area)</td>
<td>30</td>
</tr>
<tr>
<td>Art History Electives</td>
<td>9</td>
</tr>
<tr>
<td>Senior Exhibition</td>
<td>0</td>
</tr>
</tbody>
</table>

Total | 46 |

Art Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARED 3803, Teaching Arts in the Elementary Grades</td>
<td>3</td>
</tr>
<tr>
<td>ARED 4073, Concepts in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART 3073, Watercolor</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Emphasis Area</td>
<td>15</td>
</tr>
<tr>
<td>Art History Electives</td>
<td>9</td>
</tr>
<tr>
<td>ART 4330, Senior Exhibition</td>
<td>0</td>
</tr>
</tbody>
</table>

Total | 33 |
Professional Education Requirements:* Sem. Hrs.
* PSY 3703, Educational Psychology ................................................................. 3
* SCED 2514, Introduction to Secondary Teaching ............................................. 4
** SCED 4515, Instructional Design for Secondary Education .................... 5
** EDAR 4523, Methods and Materials in the Teaching of Art ...................... 3
** SCED 4713, Educational Measurement with Computer Applications .... 3
** TIAR 4826, Teaching Internship in the Secondary School ......................... 12
SE 3643, The Exceptional Student in the Regular Classroom ...................... 3
--------------------------------- 33
* See Bachelor of Science in Education degree—College of Education
** Prerequisite: Admission to the Teacher Education Program

Additional General Requirements for Teacher Education:
SOM 1203, Oral Communication ........................................................................ 3
HLTH 2513, Principles of Personal Health .......................................................... 3
--------------------------------- 6
Total 157

NOTE: The College of Education may give new numbers for SCED 2514, SCED 4515 and TIAR 4826.

Major in Graphic Design
Bachelor of Fine Arts

General Education Requirements: Sem. Hrs.
Refer to Index for General Education Curriculum for Baccalaureate Degrees .......... 46-49

Specific General Education Requirements:
Students with this major must take the following:
MUS 2503, Fine Arts-Musical ........................................................................... 3
THEA 2503, Fine Arts-Theatre ........................................................................... 3

Major Requirements: Sem. Hrs.
ART 1003, Drawing I .......................................................................................... 3
ART 1013, Design I ............................................................................................. 3
ART 2183, Survey of Art History I ................................................................. 3
ART 1043, Drawing II ....................................................................................... 3
ART 2233, Design II .......................................................................................... 3
ART 2593, Survey of Art History II ................................................................. 3
--------------------------------- 18

Studio Art Core: Sem. Hrs.
ART 2133, Design III ........................................................................................ 3
ART 3033, Drawing .......................................................................................... 3
ART 3033, Advanced Drawing ......................................................................... 3
ART 3063, Painting ............................................................................................ 3
ART 3063, Painting ............................................................................................ 3
ART 3093, Ceramics ........................................................................................... 3
ART 3103, Sculpture .......................................................................................... 3
--------------------------------- 21

Graphic Design Requirements: Sem. Hrs.
ART 2143, Graphic Design I ............................................................................. 3
ART 2423, Graphic Design II ............................................................................. 3
ART 2443, Introduction to Digital Design .......................................................... 3
ART 2453, Visual Thinking ................................................................................ 3
ART 3413, Graphic Design III .......................................................................... 3
ART 3423, Package Design .............................................................................. 3
ART 3433, Illustration ....................................................................................... 3
ART 3443, Graphic Design IV ........................................................................... 3
ART 4383, Graphic Design Internship ............................................................... 3
ART 4423, Graphic Design V ............................................................................ 3
ART 4463, Advances Digital Design ................................................................ 3
ART 4493, Portfolio Presentation ...................................................................... 3
--------------------------------- 39

Additional Requirements:
Art History Electives (including ART 4573, History of Graphic Design) ........ 9
--------------------------------- 18

Total 133-136

Major in Art Education
Bachelor of Science in Education

General Education Requirements: Sem. Hrs.
Refer to Index for General Education Curriculum for Baccalaureate Degrees .......... 46-49

Specific General Education Requirements:
Students with this major must take the following:
MUS 2503, Fine Arts-Musical ........................................................................... 3
THEA 2503, Fine Arts-Theatre ........................................................................... 3
HIST 2773, The United States To 1876, OR ..................................................... 3
HIST 2773, The United States Since 1876 .......................................................... 3
PCIS 2103, Introduction to United States Government ........................................ 3

Art Major Core: Sem. Hrs.
ART 1013, Design I .......................................................................................... 3
ART 1023, Design II .......................................................................................... 3
ART 1043, Drawing II ........................................................................................ 3
ART 2283, Survey of Art History I .................................................................. 3
ART 2593, Survey of Art History II .................................................................. 3
--------------------------------- 18

Studio Art Requirements: Sem. Hrs.
ART 2133, Design III ........................................................................................ 3
ART 3033, Drawing II (two semesters) ............................................................. 6
ART 3063, Painting ............................................................................................ 3
ART 3063, Painting ............................................................................................ 3
ART 3093, Ceramics ........................................................................................... 3
ART 3103, Sculpture .......................................................................................... 3
--------------------------------- 21

ARED 4503, Teaching Art in the Elementary Grades ........................................ 3
ARED 4703, Concepts in Art Education ............................................................. 3
ART 3073, Watercolor ...................................................................................... 3
Art Studio Electives .......................................................................................... 6
Art History Electives ........................................................................................ 6
--------------------------------- 21

Professional Education Requirements:* Sem. Hrs.
* PSY 3703, Educational Psychology ................................................................. 3
** SCED 2514, Introduction to Secondary Teaching ........................................ 4
** SCED 4515, Instructional Design for Secondary Education .................... 5
** EDAR 4523, Methods and Materials in the Teaching of Art ...................... 3
** SCED 4713, Educational Measurement with Computer Applications .... 3
** TIAR 4826, Teaching Internship in the Secondary School ......................... 12
SE 3643, The Exceptional Student in the Regular Classroom ...................... 3
* See Bachelor of Science in Education degree—College of Education
** Prerequisite: Admission to the Teacher Education Program

Additional General Requirements for Teacher Education: Sem. Hrs.
SOM 1203, Oral Communication ................................................................... 3
HLTH 2513, Principles of Personal Health ...................................................... 3
--------------------------------- 6
Total 145-148

NOTE: The College of Education may change the numbers for SCED 2514, SCED 4515 and TIAR 4826.
Department of Music

Professor Tom O'Connor, Chair; Professors Bartee, Jorgensen, Julien, Ross; Associate Professors Collision, Crist, Dauer, Lansford, Miller.; Assistant Professors Alexander, Bonner, Carey, Carroll, Hatch, Owen, Shack-Clark, Seay.

The mission of the Music Department of Arkansas State University is to fulfill the following functions: prepare music majors to be highly skilled music educators, performers and/or composers; prepare the general university student to understand, appreciate and support the art of music; and provide quality musical performances and events for the university, the community, and an ever-expanding region.

The department provides curricula which lead to the Bachelor of Music Education, Bachelor of Music, and Bachelor of Arts in music degrees. The Bachelor of Music Education curriculum emphasizes professional educational training qualifying a student for a state teaching certificate. The Bachelor of Music degree emphasizes composition or performance. The Bachelor of Arts degree with a major in music permits the study of music within a liberal arts curriculum and provides a broad coverage of the entire field of music rather than a heavy concentration in a single area.

Departmental requirements include recital attendance, performance proficiency, and participation in one or more of the performing organizations.

Students who transfer to Arkansas State University for the purpose of obtaining a degree in Music and who have 60 or more college credits may be required to take competency exams in their applied music majors and basic music areas and may be required to take remedial work in these areas if necessary.

Major in Music Bachelor of Arts

General Education Requirements: Refer to index for General Education Curriculum for Baccalaureate Degrees 46-49

Specific General Education Requirements: Students with this major must take the following:

- THEA 2503, Fine Arts-Theatre
- ART 2503, Fine Arts-Visual

Major in Music Bachelor of Arts

Language Requirement:

Foreign Language [Two years of a high school foreign language may be used to waive six semester hours of this requirement.] 12-6

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1100, Recital Attendance</td>
<td>0</td>
</tr>
<tr>
<td>6 semesters</td>
<td></td>
</tr>
<tr>
<td>MUS 1511, 1521, and 2511</td>
<td>4</td>
</tr>
<tr>
<td>MUS 2521, Aural Theory IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 3513, 1523, and 2513</td>
<td>12</td>
</tr>
<tr>
<td>MUS 2522, Music History I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3202, Elementary Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4422, Composition in the Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3422, Elementary Orchestration and Choral Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4412, Form and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4503 and 4513, Music History II and III</td>
<td>6</td>
</tr>
<tr>
<td>MUSP 1112, (Major Applied Area) 2 semesters—upper level</td>
<td>4</td>
</tr>
<tr>
<td>MUSP 3113, (Major Applied Area) 6 semesters—upper level</td>
<td>18</td>
</tr>
</tbody>
</table>

* These requirements will be piano for voice, composition, instrumental, and organ specialists, organ for piano specialists.

Special Emphasis Area Requirements:

Instrumental Performance:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 3111, (Secondary Applied Area)</td>
<td>4</td>
</tr>
<tr>
<td>MUSP 4161, Pedagogy and Performance</td>
<td>2</td>
</tr>
<tr>
<td>** Music Ensemble</td>
<td>8</td>
</tr>
<tr>
<td>MUSP 3130, Junior Recital (one-half)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 4311, Senior Recital (full)</td>
<td>1</td>
</tr>
<tr>
<td>Music Electives</td>
<td>13</td>
</tr>
<tr>
<td>** Ensemble must include 4 semesters of Wind Ensemble, Symphonic Band, or Orchestra.</td>
<td></td>
</tr>
</tbody>
</table>

Total 132

Minor in Art* Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1013, Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033, Drawing I and II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2423, Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>Upper level electives in Art</td>
<td>9</td>
</tr>
</tbody>
</table>

Minor in Art History* Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2583 and 2593, Survey of Art History I and II</td>
<td>6</td>
</tr>
<tr>
<td>Upper level electives in Art History</td>
<td>12</td>
</tr>
</tbody>
</table>

Minor in Graphic Design* Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1013, Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033, Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2413, Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2423, Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>Upper level electives in Graphic Design</td>
<td>9</td>
</tr>
</tbody>
</table>

Total 21

*Courses used to meet the requirements for the major cannot be used to meet the requirements for the minor.

*Minor: (Minor must be approved by adviser) 18-21

*Electives: (Number of hours determined by courses taken in foreign language and in the minor) 23-14

*Courses completed in this area must contribute to a total of 45 upper-level credits. Total 126-135
### Voice Performance:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 3111, Piano, 2 semesters</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3020, Song Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 4161, Pedagogy and Performance</td>
<td>1</td>
</tr>
<tr>
<td>Music Ensemble</td>
<td>8</td>
</tr>
<tr>
<td>GER 1013 and 1023, German I and II</td>
<td>6</td>
</tr>
<tr>
<td>FR 1013 and 1023, French I and II</td>
<td>6</td>
</tr>
<tr>
<td>MUS 3130, Junior Recital (one-half)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 4131, Senior Recital (full)</td>
<td>1</td>
</tr>
</tbody>
</table>

* Ensemble may include at least 3 semesters of MUS 3471, Opera Production

Total 27

### Keyboard Performance:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUED 4642, Piano Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>Music Ensemble</td>
<td>4</td>
</tr>
<tr>
<td>MUS 3333, Piano Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 4151, Accompanying (Piano majors only) 2 semesters</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4152, Church Music (Organ majors only)</td>
<td>2</td>
</tr>
<tr>
<td>FR 1013 and 1023, French I and II</td>
<td>OR</td>
</tr>
<tr>
<td>GER 1013 and 1023, German I and II</td>
<td></td>
</tr>
<tr>
<td>MUS 3130, Junior Recital (one-half)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 4131, Senior Recital (full)</td>
<td>1</td>
</tr>
<tr>
<td>Music Electives (Organ majors 7, Piano majors 8)</td>
<td>7-8</td>
</tr>
</tbody>
</table>

Total 27-28

### Composition:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 3111, (Secondary Applied Area) 4 semesters</td>
<td>4</td>
</tr>
<tr>
<td>MUS 3252, Choral Conducting, or MUS 3242, Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Music Ensemble</td>
<td>8</td>
</tr>
<tr>
<td>MUS 3130, Junior Recital (one-half)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 4131, Senior Recital (full)</td>
<td>1</td>
</tr>
<tr>
<td>Music Electives</td>
<td>13</td>
</tr>
</tbody>
</table>

* Ensembles must include 4 semesters of large ensemble plus 2 semesters of small ensemble.

Total 28

### Major in Instrumental Music

Bachelor of Music Education

### General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees 46-49

### Specific General Education Requirements:

Students with this major must take the following:

- THEA 2503, Fine Arts Theatre
- ART 2503, Fine Arts-Visual
- ARTS 2503, Fine Arts-Visual
- PSY 2013, Introduction to Psychology
- HIST 2763, The United States To 1876, OR HIST 2773, The United States Since 1876
- POSC 2103, Introduction to United States Government

### Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1100, Recital Attendance (6 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 1511, 1521, and 2511, MUS 2521, Aural Theory I-IV</td>
<td>4</td>
</tr>
<tr>
<td>MUS 1513, 1523, and 2513, MUS 2523, Theory I-IV</td>
<td>12</td>
</tr>
<tr>
<td>MUS 2221, String Instrument Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MUS 2502, Music History I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3232, Elementary Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3242, Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Instrumental Technique Courses</td>
<td>5</td>
</tr>
<tr>
<td>Five of the following:</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3231, Flute and Saxophone Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3241, Double Reed Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3251, Clarinet Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3261, Trumpet Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3271, Horn and Low Brass Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3281, Percussion Techniques</td>
<td></td>
</tr>
<tr>
<td>MUS 4422, Composition in the Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3422, Elementary Orchestration and Choral Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4503, Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 4513, Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 1112, (Major Applied Area) 3 semesters lower level</td>
<td>6</td>
</tr>
<tr>
<td>MUS 3112, (Major Applied Area) 4 semesters upper level</td>
<td>8</td>
</tr>
<tr>
<td>MUS 1111, (Applied) 1 semester</td>
<td>1</td>
</tr>
<tr>
<td>MUS 1311, 3331, Symphonic Band OR</td>
<td></td>
</tr>
<tr>
<td>MUS 1313, 3311, Wind Ensemble</td>
<td>3</td>
</tr>
<tr>
<td>MUS 1341, 3341, Marching Band</td>
<td>4</td>
</tr>
<tr>
<td>**TIMU 4826, Teaching Internship in the Secondary School</td>
<td>12</td>
</tr>
<tr>
<td>SE 3643, The Exceptional Student in the Regular Classroom</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students must pass an oral communication exam before admittance into the Teacher Education Program.

** Those students who declare instrumental music as their major area will take a proficiency exam in their major instrument at the end of the third semester of MUSP 1112. Failure to pass this exam will indicate the need to repeat MUSP 1112 until such time as the exam can be passed.

### Professional Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2013, Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCED 2514, Introduction to Secondary Teaching</td>
<td>4</td>
</tr>
<tr>
<td>SCED 3515, Performance Based Inst. Design</td>
<td>5</td>
</tr>
<tr>
<td>EDMJ 4573, Methods and Materials for Teaching Instrumental Music</td>
<td>3</td>
</tr>
<tr>
<td>SCED 4713, Educational Measurement with Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>TIMU 4826, Teaching Internship in the Secondary School</td>
<td>12</td>
</tr>
<tr>
<td>SE 3643, The Exceptional Student in the Regular Classroom</td>
<td>3</td>
</tr>
</tbody>
</table>

### Additional General Requirements for Teacher Education:

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 2513, Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>PE Activity Elective</td>
<td>1</td>
</tr>
</tbody>
</table>

Total 143

### Major in Vocal Music

Bachelor of Music Education

### General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees 46-49

### Specific General Education Requirements:

Students with this major must take the following:

- THEA 2502, Fine Arts Theatre
- ART 2503, Fine Arts-Visual
- PSY 2013, Introduction to Psychology
- HIST 2763, The United States To 1876, OR HIST 2773, The United States Since 1876
- POSC 2103, Introduction to United States Government

### Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1100, Recital Attendance (6 semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUS 1511, 1521, and 2511, MUS 2521, Aural Theory</td>
<td>4</td>
</tr>
<tr>
<td>MUS 1513, 1523, and 2513, MUS 2523, Theory</td>
<td>12</td>
</tr>
<tr>
<td>MUS 2221, String Instrument Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MUS 2502, Music History I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 2502, Music History II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3221, Elementary Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3222, Elementary Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3223, Elementary Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3224, Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Instrumental Technique Courses</td>
<td>5</td>
</tr>
<tr>
<td>Five of the following:</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3231, Flute and Saxophone Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3241, Double Reed Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3251, Clarinet Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3261, Trumpet Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3271, Horn and Low Brass Techniques</td>
<td></td>
</tr>
<tr>
<td>+ MUS 3281, Percussion Techniques</td>
<td></td>
</tr>
<tr>
<td>MUS 4422, Composition in the Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3422, Elementary Orchestration and Choral Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4503, Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 4513, Music History III</td>
<td>3</td>
</tr>
</tbody>
</table>
Department of Theatre

Professor Bob Simpson, Chair; Professor M. Simpson; Assistant Professors Alley, McLaughlin, Schaefer; Associate Professor J. O’Connell

The Department of Theatre offers course work leading to a Bachelor of Fine Arts degree in Theatre and the Bachelor of Science in Education in cooperation with the Department of Speech Communication.

The Bachelor of Fine Arts degree is a pre-professional degree program with emphasis on the development of concepts, skills and sensitivity necessary for a career in the professional theatre. The BFA degree offers a comprehensive approach with emphases in acting, directing, musical theatre, or design technology.

The Bachelor of Science in Education in Speech Communication and Theatre provides academic preparation and practicum experience for students planning to teach speech and theatre in the public schools. Graduates are prepared for certification at K-12 levels. (See College of Education section for details on professional education requirements.)

Major in Theatre
Bachelor of Fine Arts

General Education Requirements:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees</td>
</tr>
<tr>
<td>46-49</td>
</tr>
</tbody>
</table>

Specific General Education Requirements:

BFA Theatre students must take:
MUS 2503, Fine Arts-Musical
ART 2503, Fine Arts-Visual

Major Requirements:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1203, Introduction to Theatre</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 1213, Beginning Acting</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 2223, Fundamentals of Stagecraft</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 2233, Stage Makeup</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 2243, Stage Costume Construction</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 3223, Studies in Dramatic Literature</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 3252, Theatre Laboratory</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>THEA 4203, Stage Directing I</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 4263 and THEA 4273, History of the Theatre I and II</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>THEA 4383, Senior Project</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>++Those students who declare piano as their Major Applied Area must use voice as the Secondary Applied Area.</td>
</tr>
<tr>
<td>42</td>
</tr>
</tbody>
</table>

Emphasis Area (Select one of the four options):

Acting:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 2213, Creative Improvisation</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 2203, Voice and Movement for Theatre I</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 2213, Audition Techniques</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 2343, Stage Combat</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 2263, Acting Shakespeare</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 3273, Voice and Movement for Theatre II</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 4213, Acting on Camera</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 4253, Theatre Management</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 4283, Period Styles in Acting</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>THEA 4333, Advanced Acting</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MUSP 1111, Voice</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

Electives (adviser approval required) |
| 2 |
| 38 |

Minor in Music
(Not for Teacher Certification)

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>MUSP 1111, Aural Theory I</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MUSP 1113, Theory I (prerequisite: MUSP 1111 or permission of instructor)</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MUSP 2511, Aural Theory II</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MUSP 2513, Theory II</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Music History</td>
</tr>
<tr>
<td>4-5</td>
</tr>
<tr>
<td>MUS 2502, Music History I</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>One of the following music history courses:</td>
</tr>
<tr>
<td>MUS 4503, Music History II</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MUS 4513, Music History III</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MUS 4512, Church Music</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Applied Music (composition, instrumental, keyboard, or voice-4 semesters in one performance area)</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>Music electives may be used to satisfy upper-level courses</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>Twelve hours must be upper-level courses.</td>
</tr>
<tr>
<td>22-23</td>
</tr>
</tbody>
</table>

NOTE: Students who are able to pass examinations in music demonstrating competence beyond that required for entrance may be exempted from one or more college-level courses in the subject or subjects covered by the examinations, provided such demonstration of competence is confirmed by further successful study in residence in the same field.
Design Technology:  

THEA 1233, Principles of Stage Design .......................................................... 3  
THEA 2263, Stage Management ................................................................... 3  
THEA 2293, Stage Makeup ........................................................................... 3  
THEA 2303, Stage Costume Design ............................................................... 3  
THEA 2363, Theatre Management ................................................................. 3  
THEA 3323, Stage Lighting .......................................................................... 3  
THEA 4373, Special Problems: Computer Aided Design ......................... 3  
THEA 4373, Special Problems: Scene Painting ........................................... 3  
THEA 4413, Sound Design and Production for the Theatre ......................... 3  
THEA 2203, Voice and Movement for Theatre I .......................................... 3  
THEA 2263, History of Costumes ................................................................. 3  
Electives (adviser approval required) ............................................................. 2  

Total 38

Directing:  

THEA 1233, Principles of Stage Design ........................................................ 3  
THEA 2203, Voice and Movement for Theatre I .......................................... 3  
THEA 2253, Stage Management ................................................................ 3  
THEA 2263, Stage Costume Design ............................................................... 3  
THEA 2313, Stage Combat ........................................................................... 3  
THEA 2323, Play Analysis ........................................................................... 3  
THEA 2363, Acting Shakespeare ................................................................. 3  
THEA 3353, Theatre Management ............................................................... 3  
THEA 4323, Stage Directing II ...................................................................... 3  
THEA 4413, Sound Design and Production for Theatre ............................ 3  
Electives ........................................................................................................ 5  

Total 38

Musical Theatre:  

MUS 1211, Elementary Piano I ................................................................. 1  
MUS 1411, Theory I .................................................................................... 3  
MUSP 1111, Voice ..................................................................................... 8  
THEA 2303, Voice and Movement for Theatre I .......................................... 3  
THEA 2313, Creative Improvisation .............................................................. 3  
THEA 2352, Introduction to Dance ............................................................... 2  
THEA 2392, Dance: Tap ............................................................................. 2  
THEA 2372, Dance: Ballet ........................................................................ 2  
THEA 2382, Dance: Jazz ........................................................................... 2  
THEA 3313, Audition Techniques ............................................................... 3  
THEA 4343, Musical Theatre .................................................................... 3  
Elective (adviser approval required) ............................................................. 6  

Total 38  
Total 126

Minor in Theatre  

THEA 1213, Beginning Acting ..................................................................... 3  
THEA 2223, Fundamentals of Stagecraft .................................................... 3  
THEA 2293, Stage Makeup .......................................................................... 3  
Upper Division Theatre Electives (no more than 4 hours of lab and no more than 6 hours of summer theatre) .................................................. 12  

Total 21

DEPARTMENT OF ART

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Fine Arts (ART)  

2503. Fine Arts-Visual  Introduction to visual art for all students regardless of background or experience. The purpose is to develop cognitive and experiential responses to works of art. (F, S, SU)

Studio Art (ART) (Special course fees may apply.)

It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. Additionally, the Art Major Core (ART 1013 Design I, ART 1023 Design II, ART 1033 Drawing I, ART 1043 Drawing II, ART 2583 Survey of Art History I, ART 2893 Survey of Art History II) must be completed prior to the BFA Review. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses.

1013. Design I  Fundamental principles of design and the theory of color. (F, S)

1023. Design II  Three-dimensional design principles. Students work toward developing an understanding of the basic vocabulary and principles of three-dimensional design. Formal and conceptual decision-making skills are developed through fundamental exercises in additive, subtractive, substitutive and constructive processes. Prerequisites: ART 1013 and 1033. (F, S)

1033. Drawing I  This is the beginning drawing course. Students work on developing observation and the discovery of form from both real and imagined sources. Various materials and techniques are used to develop the technical means of expression. Drawings are in the form of exercises using life models (clothed), still life, landscape, and imagined sources. Basic concepts of professional art ideals and practices. (F, S, SU)

1043. Drawing II  Continuation of ART 1033. Students become more skilled with visual elements and drawing principles. A broader range of materials and techniques will be used. Subject matter will include still life, life models (undraped), landscape, and imagined subjects. Prerequisite: ART 1033. (F, S, SU)

1063. Elective Painting for Nonmajors  Introductory color and composition for painting with opportunities for the student to explore personal interests. (may be repeated for credit; however, no more than 3 hours may be applied toward a degree in fields other than art) (F, S)

1073. Elective Fine Art Photography for Nonmajors  This course offers an introduction to photography as a means of personal expression. Basic exploration of camera operations, film development, photographic printing processes and discussion of aesthetic issues will be covered. (May be repeated for credit; however, no more than 3 hours may be applied toward a degree in fields other than art.) (F -odd)

1083. Elective Printmaking for Nonmajors  Basic techniques in creating original designs in hand printing processes. Students may work in etching, silkscreen, or wood block prints. (may be repeated for credit; however, no more than 3 hours may be applied toward a degree in fields other than art) (F, S)
1093. Elective Ceramics for Nonmajors  Basic exploration of techniques of clay manipulation including the use of the potter’s wheel. Lab assistants will fire selected pieces. (may be repeated for credit; however, no more than 3 hours may be applied toward a degree in fields other than art) (F, S)

1133. Elective Drawing for Nonmajors  Introductory figure drawing and object drawing, including principles of perspective. (may be repeated for credit; however, no more than 3 hours may be applied toward a degree in fields other than art) (F, S, SU)

1703. Elective Crafts for Nonmajors  Basic exploration of traditional craft areas. Textiles, papermaking, basketry, and other craft media will be included. (may be repeated for credit; however, no more than 3 hours may be applied toward a degree in fields other than art) (D)

2013. Design III  Two-dimensional design principles. Further development in design, including research in the theory of color and the organization of two-dimensional space. Prerequisites: ART 1013 and 1033. NOTE: ART 1023 is not a prerequisite for this course. (F, S)

2453. Visual Thinking  Focuses on the process of lateral thinking and the visualization of design problems and their solutions. Emphasizes effective research, imagination, originality, and execution in various media. Prerequisite: ART 1033, ART 1013 or by permission of instructor. (S)

3033. Drawing III  Continuation of development of drawing skills and concepts. Students at this level should have well developed drawing skills and good understanding of drawing principles. Life models (undraped) will be provided when available. Prerequisites: ART 1013, ART 1023, ART 1033 and 1043, ART 2583, ART 2593. (F, S, SU)

3063. Painting  Introduction to composition and techniques in painting media. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. (F, S)

3073. Watercolor Painting  Emphasis on the development of composition and techniques with transparent watercolor media. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. (May be repeated for credit) (F)

3083. Printmaking  Covers intaglio, relief, silkscreen, lithography and contemporary printmaking techniques. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. (May be repeated for credit.) (F, S)

3093. Ceramics  Introduction to ceramic materials and techniques, wheel-thrown and handbuilt form. Glazing and firing undertaken. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. (May be repeated for credit) (F, S)

3103. Sculpture  Studio practice and experimentation in three-dimensional design. Clay, wood, metal, and other materials are used. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. (F, S)

3333. Professional Relations for Artists  Concepts and practices used in exhibiting, marketing and promoting the artist and the artist’s creative work. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. (S)

3403. Photography  An introductory study of photographic equipment, techniques, and processes. Requires three hours of lab per week. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. (F)

4033. Advanced Drawing  Working from various subject matter, emphasizing the figure model in different media. Experimental studies in composition and technique. Prerequisites: ART 3033 and passing the BFA Review for students in BFA programs. (may be repeated for credit) (F, S)

4063. Advanced Painting  Individual work for advanced students. Prerequisites: Permission of the instructor and passing the BFA Review for students in BFA programs. (may be repeated for credit) (F, S)

4083. Advanced Printmaking  Continuation of Printmaking 3083. Prerequisites: ART 3083, and passing the BFA Review for students in BFA programs. (may be repeated for credit) (F, S)

4093. Advanced Ceramics  Continuation of ceramics work. Independent projects for advanced students. Prerequisite: Permission and passing the BFA Review for students in BFA programs. (may be repeated for credit) (F, S)

4103. Advanced Sculpture  Continuation of sculpture work with emphasis on development of personal direction. Prerequisite: Permission of instructor, and passing the BFA Review for students in BFA programs. (may be repeated for credit) (F, S)

4330. Senior Exhibition  Capstone course required for all graduating BFA Studio Art emphasis students. Prerequisite: Minimum GPA of 2.75 in all work with an ART prefix and ARTH prefix, permission of advisor, instructor, and department chair, and passing the BFA Review for students in BFA programs. (F, S, SU)

4351-2-3. Studio Problems  An opportunity for the studio-oriented student to explore and develop techniques and concepts in both two- and three-dimensional media. May not be taken by other existing studio courses will be emphasized. Prerequisites: ART 1013, ART 1023, ART 1033 and 1043, ART 2583, ART 2593, and permission of advisor, instructor, and department chair, and passing the BFA Review for students in BFA programs. (may be repeated for credit) (F, S, SU)

4443. Photography as a Fine Art I  Advanced studies of photographic equipment, techniques and processes with emphasis on personal expression. Requires three hours of lab per week. (may be repeated for credit) Prerequisite: ART 1013, ART 1023, ART 1033, ART 1043, ART 2013, ART 2423, ART 3403, and passing BFA review for students in BFA programs, or previous photographic experience with instructors permission. (F)

4453. Photography as a Fine Art II  Advanced studies in photography as fine art; includes silver- and non-silver-based processes with emphasis on aesthetic expression. Prerequisite: ART 4443. (F- -even)

4611. Senior Thesis  A written project required of all B.A. candidates with an emphasis in Studio Art or Art History; to be completed in the final semester. (F, S, SU)

Graphic Design (ART)

It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio (Graphic Design) class. Additionally, the Art Major Core (ART 1013 Design I, ART 1023 Design II, ART 1033 Drawing I, ART 1043 Drawing II, ART 2583 Survey of Art History I, ART 2593 Survey of Art History II) must be completed prior to the BFA Review. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 level ART courses.

2413. Graphic Design I  Basic principles of typography, printing processes, design and visual communication as they relate to graphic design. Prerequisite: ART 1013. (F)

2423. Graphic Design II  Introduction to the design process as applied to graphic design with special emphasis on methods, materials, and practices of the design studio. Includes preparation of art work for presentation and reproduction. Prerequisite: ART 2413. (S)

2433. Digital Photography I  This course offers an introduction to photography as it can be used in digital media. Basic camera operation and computer based digital imaging and design applications will be covered. Prerequisite: ART 1013 Design I for art majors.
2443. Introduction to Digital Design  This course will instruct students in the design and implementation of multimedia presentations, interface design and other computer-based media design. Prerequisites: FAV 2502, FAV 2503 or ART 2503 (non-majors), ART 1013 (art majors), or instructor's permission. (F -even)

3413. Graphic Design III  Color principles and techniques for graphic design presentations and preparation of artwork for reproduction. Various color systems, applications and rendering techniques using traditional media and the computer will be covered. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2013, ART 2423, ART 2583, and ART 2593. (F)

3423. Package Design  Structure, color, and graphics and creative application to the field of packaging. Designing of three-dimensional containers and displays. Prerequisite: ART 1013, ART 1023, ART 1033, ART 1043, ART 2013, ART 2423, ART 2583, and ART 2593. (may be repeated for credit) (F)

3433. Illustration I  Introduction to illustration methods, materials and techniques. Prerequisites: ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593, and either 3083 or 3073. (F, S)

3443. Graphic Design IV  Various letter styles and the creative application of measuring systems, copy preparation, and history. The emphasis will be on aesthetic discrimination. Prerequisites: ART 3413. (may be repeated for credit) (S)

3673. Seminar in Digital Media and Design  A study of the development and impact of digital media. (Also listed as RTV 3673). (S)

4363. Graphic Design Internship  Supervised work in a professional graphic design setting. Prerequisite: consent of department chair, and passing the BFA review for students in BFA program. (F, S, SU)

4403. Photography for the Graphic Designer I  Study of photographic equipment, techniques and processes with emphasis on graphic design applications. Requires three hours of lab per week. (may be repeated for credit) Prerequisite: ART 2423, and passing the BFA review for students in the BFA programs. (S -even)

4413. Photography for the Graphic Designer II  This course offers advanced studies in photography as it is utilized in graphic design. Advanced studies in studio and site photography and the application of photography to print and digital media. Prerequisite: ART 4403 and passing the BFA review for students in BFA program. (S -even)

4423. Graphic Design V  Continued application of the design problems with a special emphasis on idea development and presentation techniques. (may be repeated for credit) Prerequisite: ART 3413 and passing the BFA review for students in BFA program. (F)

4433. Illustration II  Advanced studies in various illustrative materials and techniques including computer applications. (may be repeated for credit) Prerequisite: ART 3433 and passing the BFA review for students in BFA program. (F, S)

4463. Advanced Digital Design  This course will offer students advanced instruction in the design and implementation of multimedia presentations, interface design and other computer-based media design. Prerequisite: ART 2443 and passing the BFA review for students in BFA program. (S -odd)

4493. Portfolio Presentation  Capstone course required for all graduating BFA, Graphic Design emphasis students. Preparation of portfolio of graphic design solutions that demonstrate the student's overall knowledge and special skills. Prerequisite: minimum GPA of 2.75 in all course work with an ART prefix and ARTH prefix and permission of adviser and instructor. (F, S)

4513. Methodology in the History and Criticism of Art  Directed research methods for students of the visual arts. Written reports and oral presentations concerning both methodology and results of research. Prerequisites: ART 2583, ART 2593 and passing the BFA Review for students in BFA programs. (D)

Art History (ARTH)

2583. Survey of Art History I  General investigation of the historical development of art from prehistoric periods to the Renaissance. (F, S)

2593. Survey of Art History II  Continuation of ART 2583, covering the period from the Renaissance to the Modern period. (F, S)

3503. History of Photography  History, aesthetics, and appreciation of photography. Prerequisites: ART 2583, ART 2593 for Art majors. (Also listed as JOUR 4093) (S -odd, SU -even)

3513. History and Museums  An introduction to the background and nature of museums and the use of the resources of museums for the study of history. (D)

3523. Ancient and Classical Art History  A survey of art from the earliest civilizations of the Near East through the Roman empire. Prerequisites: ART 2583, ART 2593 for Art majors. (F -even)

3533. Renaissance Art History  Artists, styles, and development of art during the Renaissance Period in Italy and northern Europe. Prerequisites: ART 2583, ART 2593 for Art majors. (F -even)

3543. Modern Art History  Important periods, styles, and artists, from the nineteenth century to the present. Prerequisites: ART 2583, ART 2593 for Art majors. (F -even, SU -odd)

3553. Medieval Art History  Formation and development of art from the early Christian through the Gothic period. Prerequisites: ART 2583, ART 2593 and passing the BFA Review for students in BFA programs. (S -odd)

3563. Baroque and Rococo Art  Artists, styles, and developments of Baroque and Rococo Art immediately following the Renaissance. Prerequisites: ART 2583, ART 2593 for Art majors. (S -odd)

3573. History of Graphic Design  An historical overview of visual communication from the origins of printing and typography, through the impact of industrial technology, to the development of modern graphic design. Prerequisites: ART 2583, ART 2593 for Art majors. (S -odd)

3583. History of Non-Western Art  Introduction to the visual arts and cultures of non-European peoples. Specific focus will vary depending upon student interest and instructor's expertise. Prerequisites: ART 2583, ART 2593 for Art majors. (F -even)

4301-2-3. Studies in Art History  Individual directed study and investigation of pertinent areas in the history of art. Prerequisites: ART 2583, ART 2593 and passing the BFA Review for students in BFA programs. May be repeated. (D)

4713. Methodology in the History of Art  Directed research methods for students of the visual arts. Written reports and oral presentations concerning both methodology and results of research. Prerequisites: ART 2583, ART 2593 and passing the BFA Review for students in BFA programs. (D)

Art Education (ARED) (Special course fees may apply.)

3702. Art for the Classroom Teacher  Planning and developing creative art programs and art appreciation for the elementary grades. Prerequisite: 30 semester hours (including ART 2583 or ART 2593 for art majors). (F, S, SU)
3753. Crafts for Teachers  Introduction to traditional craft media and their implementation into the public school art classroom. Media areas include textiles, fibers, glass, clay, and other materials. Prerequisite: ART 1013 and ART 1033. (D)

3803. Teaching Art in the Elementary Grades  Techniques and strategies for teaching visual art to children in the elementary grades, developing an art curriculum, and learning to assess children's artwork are the focus of this course. Prerequisite: 30 semester hours completed. (S)

4703. Concepts in Art Education  A study of historical and contemporary philosophical concepts in art education. Prerequisite: Acceptance into a teacher education program. (S)

4753. Special Problems in Art Education  Independent study of approved topics in Art Education. (may be repeated for credit) Prerequisite: Permission of professor. (D)

DEPARTMENT OF MUSIC

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Fine Arts (MUS)

2503. Fine Arts-Musical  An introduction to music for the listener who has had no formal training or experience. The purpose is to develop listening skills. Three lecture periods per week. (F, S, SU)

Performance—Applied Music (MUSP)

Applied Music Special Fees

Applied music fees: $35 per semester—1 hour credit
Applied music fees: $55 per semester—2 or more hours of credit

The following policy governs applied music study:

1 hour credit: One half-hour lesson per week. Five hours practice required.
2 hours credit: Two half-hour lessons, or one 1-hour lesson per week. Ten hours practice required.
3 hours credit: Two half-hour lessons, or one 1-hour lesson per week. Fifteen hours practice required. (Available only to Bachelor of Music degree candidates.)

1111-2-3. May be repeated for credit as needed. (F, S, SU)

3111-2-3. May be repeated for credit as needed. (F, S, SU)

Performance Courses

Music Performance (MUSP)

1100. Recital Attendance  All music majors are required to attend a specified number of campus concerts and recitals. (F, S)

3130. Junior Recital (one-half) (F, S)
4131. Senior Recital (F, S)
4141. Piano Chamber Music  For advanced pianists. Experience with two-piano literature. (D)
4151. Accompanying  For advanced pianists. Prerequisite: Permission of instructor. (may be repeated for credit) (D)
4161. Pedagogy and Performance  The study of the literature and pedagogical techniques as related to performance. Prerequisite: MUS 3123 or permission of the instructor. (may be repeated for credit) (F, S, SU)

Performance Courses—Group Instruction (MUS) (Special course fees may apply.)

1211. Elementary Piano  Beginning piano class. Two laboratory periods per week. (F, S, SU)
1221. Elementary Piano II  Continuation of beginning piano class. Two laboratory periods per week. Prerequisite: MUS 1211 or permission of instructor. (S)
1231. Guitar Class I  Open to all ASU students. An introductory course to learning the fundamentals of guitar playing. The course will focus on learning basic chords, conventional strumming techniques and finger picking, and notes in first position as well as the general technique of guitar playing. (F)
1241. Guitar Class II  Open to all ASU students who have completed Guitar Class I. Prerequisite: MUS 1231. May be repeated for credit. (S)
1611. Keyboard Skills 1  For non-pianist Music Majors. To develop piano sightreading and repertoire, and to enhance corresponding courses: Music Theory 1 and Aural Skills 1. No prerequisites. Non-music majors admitted with permission of instructor. (F, S, Su)
1621. Keyboard Skills 2  For non-pianist Music Majors. To develop piano sightreading and repertoire, and to enhance corresponding courses: Music Theory 2 and Aural Skills 2. Prerequisite: MUS 1611 or permission of instructor. Non-music majors admitted with permission of instructor. (F, S, Su)
2211. Intermediate Piano I  A continuation of MUS 1221. Two laboratory periods per week. Prerequisite: MUS 1221 or permission of instructor. (F)
2221. Intermediate Piano II  Continuation of MUS 2211. Prerequisite: MUS 2221 or permission of instructor. (S)
2231. String Instrument Techniques  Class instruction in string instrument performance. Two laboratory periods per week. (F, S)
2611. Keyboard Skills 3  For non-pianist Music Majors. To develop piano sightreading and repertoire, and to enhance corresponding courses: Music Theory 3 and Aural Skills 3. Prerequisite: MUS 1611 and MUS 1621 or permission of instructor. Non-music majors admitted with permission of instructor. (F, S, Su)
2621. Keyboard Skills 4  For non-pianist Music Majors. To develop piano sightreading and repertoire, and to enhance corresponding courses: Music Theory 4 and Aural Skills 4. Prerequisite: MUS 1611, MUS 1621 and MUS 2611 or permission of instructor. Non-music majors admitted with permission of instructor. (F, S, Su)
3211. Diction for Singers I  Fundamentals of proper pronunciation of German, French, and Italian using the International Phonetic Alphabet. Two laboratory periods per week. Prerequisite: Permission of instructor. (F)

3221. Diction for Singers II  Continuation of Diction I. Two laboratory periods per week. Prerequisite: MUS 3211 or permission of instructor. (S)

3231. Flute and Saxophone Techniques  Class instruction in performance and pedagogy. Two laboratory periods per week. (F -odd)

3232. Elementary Conducting  Fundamental baton technique development and interpretation of the musical score. Three class meetings per week. (F)

3241. Double Reed Techniques  Class instruction in performance and pedagogy. Two laboratory periods per week. (F -even)

3242. Instrumental Conducting  Intensive study of instrumental scores, baton techniques, and rehearsal procedures involved in conducting instrumental ensembles. Three class meetings per week. (S)

3251. Clarinet Techniques  Class instruction in performance and pedagogy. Two laboratory periods per week. (S)

3252. Choral Conducting  Intensive study of conducting techniques and the problems in rehearsal and performance of choral literature of all styles, historical periods and special voicings. Three class meetings per week. (S)

3261. Trumpet Techniques  Class instruction in performance and pedagogy. Two laboratory periods per week. (F)

3271. Horn and Low Brass Techniques  Class instruction in performance and pedagogy. Two laboratory periods per week. (S)

3281. Percussion Instrument Techniques  Class instruction in performance and pedagogy. Two laboratory periods per week. (S)

4211. Inservice Training  Practical experience as an apprentice in a local church music program. (for Sacred Music majors only) (D)

4221. Inservice Training  Practical experience as an apprentice in a local church music program. Continuation of MUS 4211. Prerequisite: MUS 4211.

Small Ensembles (MUS)

3371. Small Ensemble (Non-credit 3370)  Vocal, woodwind, brass, handbell, guitar, and percussion performance ensembles. Periodic tours. Prerequisite: Permission of instructor. (may be repeated for credit) (F, S)

3381. Jazz Ensemble (Non-credit 3380)  A performing ensemble designed to study a wide variety of jazz music including swing, progressive, modern, and rock styles. Periodic tours. Membership by audition only. (may be repeated for credit) (F, S)

3391. French, and Italian using the International Phonetic Alphabet. Two laboratory periods per week. Prerequisite: Permission of instructor. (may be repeated for credit) (F, S)

Large Ensembles—Choral and Instrumental (MUS) (Special course fees may apply.)

NOTE: Large ensemble course numbers may be repeated for credit.

1311, 3311, (Non-credit 1310, 3310). Wind Ensemble (Fall Term) Membership is open to all university students by audition on specified prepared material and sightreading during the first week of the fall semester. Rehearsals are held MWF from 12 to 1:00 p.m. The wind ensemble usually performs two scheduled concerts, with possible tours. (F)

1321, 3321, (Non-credit 1320, 3320). Wind Ensemble (Spring Term) A select group of 65 to 70 musicians which performs during the spring semester. Membership in this group is by audition only. These auditions are usually held during the last few weeks of the fall semester over specified prepared material, and sightreading. Rehearsals are held MTWTH from 4:30 to 5:30 p.m. The Wind Ensemble performs scheduled concerts and takes a tour of state and regional high schools. (S)

1331, 3331, (Non-credit 1330, 3330). Symphonic Band (Spring Term) Open to all university students without audition. This group rehearses MWF from 3:30 to 4:30 p.m. during the spring term and performs two scheduled concerts. (S)

1341, 3341, (Non-credit 1340, 3340). Marching Band Membership is open to all interested university students. This group performs at all regular and post season home football games with some travel to away games. Rehearsals are held MTWTH from 3:30 to 5:00 p.m. during the football season. (Mandatory pre-school rehearsals held week prior to registration.) (F)

1351, 3351, (Non-credit 1350, 3350). Concert Choir Open to all university students by audition, consists of scheduled concerts and possible tours. (F, S)

1361, 3361, (Non-credit 1360, 3360). University Singers Open to all university students by audition, consists of scheduled concerts and possible tours. (F, S)

3391. Laboratory Band  A large ensemble which allows participation by music majors on secondary instruments. Emphasis on medium to advanced band literature as it applies to high school programs. Provides conducting experience for students enrolled in conducting classes, (may be repeated for credit.) (S)

3471. Opera Production  A course in the study and performance of selected opera literature. Prerequisite: Permission of instructor. (may be repeated for credit.) (S)

3481, (Non-credit 3480). Orchestra  A large ensemble providing experience in the performing of selected string orchestra music including Baroque, Classical, Romantic, and 20th century style. Enrollment by permission of instructor. (may be repeated for credit.) (F, S)

Basic Music—Theory (MUS)

1251. Elementary Voice Class and Sight-Singing  A class for all music majors designed to teach basic vocal techniques and the skill of sight-singing using solfeggio. Must be taken during the first year of enrollment as a music major. Offered only in the fall semester.

1403. Music Fundamentals  The elements of music beginning with the properties of sound; continuing through triads. No previous musical training necessary. Open to all university students. May be used as a preparatory course for Music Theory I. (D)

1511. Aural Theory I  Training in oral perception and the basic skills of sight singing. Two class periods per week. (F)

1512. Theory I  Basic fundamentals of music with emphasis on notation of pitch and rhythm. Studies in the construction of scales, intervals, key signature and simple diatonic melodies. No previous musical experience necessary. Open to all university students. (F)
1521. Aural Theory II Continued training in aural and sight singing skills with emphasis on diatonic melody and harmony. Two class periods per week. Prerequisite: Grade of 'C' or better in Aural Theory I. (S)

1523. Theory II Diatonic harmony with emphasis on music practices of the 17th and 18th centuries. Prerequisite: Grade of 'C' or better in Theory I. (S)

2511. Aural Theory III Continued training in aural and sight singing skills with emphasis on extended tonal and atonal practices. Two class periods per week. Prerequisite: Grade of 'C' or better in Aural Theory II. (F)

2513. Theory III Chromatic harmony, basic music forms and analysis with emphasis on music of the 18th and 19th centuries. Prerequisite: Grade of 'C' or better in Theory II. (F)

2521. Aural Theory IV Continued training in aural and sight singing skills with emphasis on extended tonal and atonal practices. Two class periods per week. Prerequisite: Grade of 'C' or better in Aural Theory III. (S)

2523. Theory IV Advanced tonal and atonal practices of music from the late 19th and 20th centuries through analysis. Prerequisite: Grade of 'C' or better in Theory III. (S)

3422. Elementary Orchestration and Choral Arranging Acoustical and expressive uses of orchestral instruments and voices. Prerequisite: Grade of 'C' or better in MUS 2523 and MUS 2521. (S)

4412. Form and Analysis Analysis of basic and larger forms of music. (D)

4422. Composition in the Electronic Media Original composition to include the writing of small musical forms. Emphasis on instruction in composition using synthesizers, samplers, and computers. Grade of 'C' or better in MUS 2523 and MUS 2521. (F)

4433. Improvisation of Jazz and Popular Music Fundamental techniques of improvising with emphasis on melodic and rhythmic principles. (D)

Basic Music—Music History and Literature (MUS)

(Prerequisite: 2 semesters of theory or permission of instructor)

2502. Music History I A brief study of the vital aspects of musical style, plus an overview of the six major stylistic periods of music history, and a study of Medieval music. (F, S)

3523. Song Literature Baroque, Classical, Romantic, and Twentieth-century song literature with special emphasis on style and level of difficulty. (D)

3533. Piano Literature Baroque, Classical, Romantic, and twentieth-century piano music with special attention to style and level of difficulty. (D)

4161-2-3. Special Problems in Music Independent study of approved topics for juniors and seniors arranged in consultation with a professor. (must have departmental approval) (F, S, SU)

4503. Music History II A study of the music of the Renaissance, Baroque, and Classical eras. Prerequisite: Grade of 'C' or better in MUS 2502. (F, SU -even)

4512. Church Music A study of the music of the Christian Church with an emphasis on the historical and philosophical aspects. May be substituted for History I and II by BME and BM performance candidates. (D)

4513. Music History III A study of the music of the Romantic era to the present. Prerequisite: Grade of 'C' or better in MUS 2502. (S, SU -odd)

4543. History of Jazz Study of jazz from its beginning to the present. No prerequisite. Open to nonmusic majors. (D)

Music Education (MUED)

3612. Music and Methods for the Classroom Teacher Development of procedures, skills, and approaches to the music program for the elementary classroom. (for nonmusic majors only) (F, S, SU)

4613. Methods and Materials for Teaching Vocal Music in the Middle Grades Development of procedures, skills, and approaches to teaching general and choral music in grades 4-8.

4623. Music in the Elementary School Current philosophies and practices in curriculum planning for the elementary school music program. (music majors only) (F)

4633. Music Recording Techniques Music recording techniques designed for the music educator. Special emphasis on essential electronic equipment, its use and maintenance. (D)

4642. Piano Pedagogy Methods and materials of teaching piano. Prerequisite: permission of instructor. (D)

4651. Instrument Repair Techniques for maintenance and minor repair of wind instruments. (S)

4661-2-3. Special Problems in Music Education Independent study of approved topics for juniors and seniors arranged in consultation with a professor. (must have departmental approval) (F, S, SU)

DEPARTMENT OF THEATRE

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Fine Arts (THEA)

2503. Fine Arts-Theatre Provides student with an appreciation of how various artistic elements combine to produce theatrical productions. (F, S, SU)

Theatre (THEA)

1203. Introduction to Theatre Basic principles of theatrical traditions and terminology. (F)

1213. Beginning Acting Basic theories and techniques of the art of acting. (may be repeated once, depending on progress) (F, S)

1223. Principles of Stage Design An exploration of the basic elements of design that are used to create the visual theatrical environment. (S -odd)

2203. Voice and Movement for Theatre I (may be repeated with faculty consent) (F)

2213. Creative Improvisation (may be repeated depending on progress) Examines the actor's physical, vocal, and psychological potential to create a clear and simple characterization without a written script. (S)

2223. Fundamentals of Stagecraft Techniques of constructing, painting, and rigging scenic units. (S)

2233. Stage Makeup Basic principles of applying stage makeup. (S)
Stage Costume Construction  Basic principles of stage costume construction. (F)

Introduction to Dance Styles  Introduction to the basic fundamentals of dance language, and execution of fundamental dance techniques including those of ballet, jazz, tap, and musical theatre dance. Warm-up, stretching, jumps, turns, across-the-floor and various combinations will be practiced. (F-even)

Stage Management  Principles and practices of stage management.

Dance: Tap  An introduction to tap dance techniques emphasizing fundamentals of body placement, vocabulary, and styles in tap. Students will be taught dance combinations to enhance technical skills, memory and performance qualities. (S-even)

Dance: Ballet  An introduction to ballet dance techniques emphasizing work in correct body alignment, posture, balance, barre work, stretches, strengthening exercises and grace. Students will be taught dance combinations to enhance technical skills, memory and performance qualities. The history and development of ballet will also be studied.

Dance: Jazz  An introduction to jazz dance technique emphasizing work in correct body alignment, improvisation, injury prevention, nutrition and fitness, flexibility, strengthening exercises, and performance. Students will be taught dance combinations in classical jazz, lyrical and musical theatre to enhance technical skills, memory and performance qualities. The history and development of jazz dance will also be explored.

History of Costumes  An in-depth study of the clothing styles of western civilization from 5 BC to the present. (F-even)

Motion Picture Appreciation  Movies as a work of art and a form of persuasion. (F, S)

Audition Techniques  Preparation and execution of audition material. (May be repeated with faculty consent) Prerequisite: THEA 1213. (F)

Studies in Dramatic Literature  A reading introduction to plays and playwrights spanning from Greek to contemporary works. (F -even)

Play Analysis  How playwrights achieved characterization, structure, and plot. (S -even)

Stage Combat  Movement and combat techniques for the stage. May be repeated with consent of faculty. Prerequisite: THEA 2213. (S -odd)

Theatre Laboratory  Work on productions. Required of all Theatre Arts majors during every semester (except freshman semesters). (F, S)

Acting Shakespeare  A thorough investigation of the acting techniques specific to performing Shakespeare through scene and monologue work. Prerequisite: THEA 1213. (S -odd)

Voice and Movement for Theatre II  Incorporation of vocal techniques in acting styles; emphasis on vocal flexibility. (may be repeated with faculty consent.) Prerequisite: THEA 2203. (S -odd)

Stage Directing I  Directing techniques for theatrical productions. Prerequisite: THEA 2213 or consent of instructor. (S -odd)

Stage Directing II  Advanced scene work considering specifics such as rhythm, mood, conceptualization and play style. Prerequisite: THEA 4203. (S -odd)

Advanced Acting  Further studies in style, technique, and characterization. (may be repeated once) Prerequisite: THEA 4333. (F -odd)

Musical Theatre  Work involves exposure to the history of and the defining and solution of acting and musical problems which occur when performing musical theatre. Prerequisite: THEA 1213. (S -even)

Children's Theatre  Presentation of plays for children's audiences. (SU)

Internship in Theatre  Combines relevant work experience with classroom theory. (D)

Special Problem: Varying Topics  Prerequisite: permission of the instructor. (may be repeated twice with different topics) (D)

Senior Project  A capstone course designed to showcase the graduating seniors achievements and accomplishments. (F, S)

Sound Design and Production for the Theatre  Principles and practices of stage sound design and production. Prerequisite: THEA 1203 or consent of instructor (S -odd)
College of Humanities and Social Sciences
Professor Gloria J. Gibson, Dean
Professor Carol A. O'Connor, Associate Dean

Mission
The College of Humanities and Social Sciences was formed in July 2003; it was reconstituted from the previous College of Arts and Sciences. The mission of the College of Humanities and Social Sciences is to provide an excellent educational experience for all students in the traditional humanities and social science disciplines and in innovative interdisciplinary programs and degrees. The goals of the College are to:

• Provide excellent instruction to all students in essential skills (i.e., intellectual engagement, communication, writing, critical thinking) and in the general education components of degree requirements;
• Assist all students in understanding the importance of the humanities and social science disciplines in their everyday lives;
• Provide a dynamic transformative education for undergraduate and graduate majors in the humanities and social science disciplines;
• Encourage faculty to explore ideas for interdisciplinary programs and collaborative research;
• Promote an understanding and appreciation of diversity in all its various forms and the ways it can contribute to the enrichment of society;
• Encourage the study of languages and participation in international exchange programs as means to better understand and appreciate world cultures;
• Encourage and develop outreach activities to enrich the minds of hearts of pre-collegiate students, alumni, and diverse communities of the Mississippi Delta Region and greater Arkansas.

Programs of Study
The College of Humanities and Social Sciences offers a wide range of undergraduate degree programs including a Bachelor of Arts in Criminology, Sociology, Geography, English, Philosophy, History, French, Spanish, and Political Science and a Bachelor of Science in Education (in English, Social Science, French, and Spanish). Most degree programs offer minors. Minors are also available in the following fields: African-American Studies, Family Studies, Folklore Studies, German, International Studies, Medieval Studies, Modern European Studies, and Women and Gender Studies. The College provides an Associate of Arts degree in Law Enforcement. It also provides pre-professional advisement for law school as part of its Political Science, Philosophy, and Criminology majors.

The College of Humanities and Social Sciences grants a full range of masters' degree (M.A., M.P.A., and M.S.E.) programs, several Educational Specialist degree (Ed.S.) programs, and an interdisciplinary doctoral degree (Ph.D.) program (Heritage Studies). For further information, see ASU's Graduate Bulletin.

The College is comprised of five departments:

Department of Criminology, Sociology, and Geography
Department of English and Philosophy
Department of History
Department of Languages
Department of Political Science

GRADUATION REQUIREMENT
Bachelor of Science in Education

In addition to meeting the University Requirements for all Baccalaureate Degrees as presented by the University, and the Teacher Education Program Requirements as presented by the College of Education, all candidates for a Bachelor of Science in Education degree in the College of Humanities and Social Sciences must also have a grade point average of 2.50 on all work attempted overall, on work in the major field, and if a transfer student, on all work taken at this institution.

FOREIGN LANGUAGE REQUIREMENT
All candidates for the Bachelor of Arts degree in the College of Humanities and Social Sciences must demonstrate proficiency in a foreign language. This may be done in either of the following ways.

1. By completing the second semester of the intermediate year of foreign language at the college level. Students with no foreign language experience must enroll in the first semester of the elementary year and complete 12 hours of a single language. Students with some experience and proficiency should consult with a member of the language faculty about their readiness for more advanced courses. (No credit will be awarded for courses waived.)

2. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to completion of the second semester of the intermediate year of a foreign language at the college level.

Department of Criminology, Sociology, and Geography
Professor Patricia Teddlie, Chair; CRIMINOLOGY: Associate Professor and Director of Criminology Program: Russell; Associate Professor Salinger; Assistant Professors Chu, Lemley; SOCILOGY: Associate Professor Hill; Assistant Professors Donaghy, Knight, Winnke; Instructor Monroe; ANTHROPOLOGY: Professor Clements; Associate Professor Burns; Assistant Professor Morrow; GEOGRAPHY: Professor Stroud; Assistant Professor Combs

The Department of Criminology, Sociology, and Geography offers to students courses designed to provide them with a better understanding of themselves and their environment. Within this multi-disciplinary department, students have an opportunity to receive a baccalaureate degree in one of three areas: Criminology, Geography, and Sociology.

Majors in the Department of Criminology, Sociology, and Geography are prepared for many professions including teaching, government service, law, business, research, cartography, and community planning; and for professional careers within the criminal justice system such as police, truancy and probation officers, parole officers, and correctional and research personnel.

Major in Criminology
Bachelor of Arts

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees
### SOC 3381, Laboratory for Social Statistics

Sem. Hrs. 1

### Major Requirements:

**Major electives (choose 21 hours from the list below with a minimum of 12 hours in geography)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 4313</td>
<td>Advanced Perspectives in Historical Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3323</td>
<td>United States Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>PSOC 3513</td>
<td>Public Budgeting Process</td>
<td>3</td>
</tr>
<tr>
<td>PSOC 4503</td>
<td>Introduction to Public Policy Studies</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4363</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4373</td>
<td>Sustainable Development in Modern Society</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total 21*

### General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees 46-49

### Language Requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM 3183</td>
<td>Institutional Corrections: OR</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total 3**

### Crime Scene Investigation and Law Enforcement Administration

**Associate of Applied Science Degrees**

The Associate of Applied Science degrees in Crime Scene Investigation and Law Enforcement Administration are offered through a partnership agreement between Arkansas State University and the Criminal Justice Institute of the University of Arkansas. **Students must be currently employed by a law enforcement agency to participate in either of these degree programs and be fully admitted to both Arkansas State University—Jonesboro and the Criminal Justice Institute using the admissions process for each institution.** The general education component of the program will be provided by ASU—Jonesboro and all students must comply with the state guidelines concerning freshman assessment and course placement in English, Mathematics, and Reading. Courses offered and completed through the Criminal Justice Institute will apply only toward the associate of applied sciences degree and will not be accepted by Arkansas State University as satisfying requirements for any other associate or baccalaureate degree. It is the responsibility of the student to request credit for the Criminal Justice Institute courses and submit the proper documentation prior to or during the student’s first enrollment at ASU. Partnership agreement tuition discounts for these programs may be applied at Marked Tree and Paragould locations only.

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGS 1003</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENGS 1013</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>CIT 1503</td>
<td>Microcomputer Applications OR CS 1043, Introduction to Computers</td>
<td>3</td>
</tr>
</tbody>
</table>

*May be substituted with “Computer Applications” offered by CS*

**Total** 9
Select 18 hours from the following general education courses:

- HIST 2763, The US to 1876 OR HIST 2773, the US Since 1876 OR POSC 2103, Introduction to US Government (Must take one of these courses) ......................................................... 3
- BIOL 1003, Biological Science (lab not required) OR ZOOL 2003, Introduction to Zoology (lab not required) ................................................................. 3
- MATH 1023, College Algebra ................................................................................. 3
- CIT 1003, Microcomputer Applications OR CS 1043, Introduction to Computers* ......................................................... 3
- BIOL 1003, Biological Science (lab not required) .................................................. 3
- MATH 1023, College Algebra ................................................................................. 3
- HIST 1013, World Civilization To 1660 ................................................................. 3
- POSC 1003, Introduction to US Government ....................................................... 3
- ECON 2313, Principles of Macroeconomics ......................................................... 3
- CRIM 1023, Introduction to Criminal Justice ...................................................... 3
- CRIM 2123, Introduction to Criminal Justice ...................................................... 3
- PSY 2013, Introduction to Psychology .................................................................. 3
- ECON 2313, Principles of Macroeconomics ......................................................... 3
- CRIM 1023, Introduction to Criminal Justice ...................................................... 3
- CRIM 2263, Criminal Evidence and Procedure .................................................. 3
- CRIM 2323, Juvenile Delinquency ...................................................................... 3
- POSC 3113, American Municipal Government .................................................. 3
- SOC 2113, Social Problems .................................................................................. 3
- SOC 3113, Social Problems .................................................................................. 3
- SOC 4243, Social Theory .................................................................................... 3
- SOC 4523, Applied Research .............................................................................. 3
- SOC 2213, Principles of Sociology ...................................................................... 3
- CRIM 1023, Introduction to Criminal Justice ...................................................... 3
- CRIM 2263, Criminal Evidence and Procedure .................................................. 3
- HLTH 2522, First Aid and Safety ....................................................................... 2
- CRIM 1023, Introduction to Criminal Justice ...................................................... 3
- CRIM 2263, Criminal Evidence and Procedure .................................................. 3
- CRIM 2323, Juvenile Delinquency ...................................................................... 3
- POSC 3113, American Municipal Government .................................................. 3
- SOC 2113, Social Problems .................................................................................. 3
- SOC 4243, Social Theory .................................................................................... 3
- SOC 4523, Applied Research .............................................................................. 3
- SOC 2213, Principles of Sociology ...................................................................... 3
- CRIM 1023, Introduction to Criminal Justice ...................................................... 3
- CRIM 2263, Criminal Evidence and Procedure .................................................. 3
- HLTH 2522, First Aid and Safety ....................................................................... 2

Electives:

- ENG 1013, Composition II .................................................................................... 3
- ENG 1023, Composition II .................................................................................... 3
- BIOL 1001, Laboratory for Biological Science ..................................................... 1
- MATH 1023, College Algebra ................................................................................. 3
- POSC 1003, Introduction to US Government ....................................................... 3
- PSY 2013, Introduction to Psychology .................................................................. 3
- HIST 1013, World Civilization To 1660 ................................................................. 3
- HIST 1023, World Civilization Since 1866 ............................................................ 3
- HIST 2763, The United States To 1876; OR HIST 2773, The United States Since 1876; OR POSC 2103, Introduction to United States Government ......................................................... 3
- MATH 1023, College Algebra ................................................................................. 3
- MS 1011, Mini-Expedition Leadership and Mountaineering; AND PS 1003, Concepts of Fitness ................................................................. 2
- PSY 2013, Introduction to Psychology .................................................................. 3
- ANTH 2233, Introduction to Cultural Anthropology; OR ECON 2333, Economic Issues and Concepts; OR ECON 2313, Principles of Macroeconomics ......................................................... 3
- CRIM 1023, Introduction to Criminal Justice ...................................................... 3
- ECON 2333, Economic Issues and Concepts; OR ECON 2313, Principles of Macroeconomics ......................................................... 3
Minor in Geography

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives in Geography</td>
<td>3</td>
</tr>
<tr>
<td>Upper-level Electives in Geography</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

Minor in Sociology

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives in Sociology (in addition to SOC 2213, Principles of Sociology)</td>
<td>6</td>
</tr>
<tr>
<td>Upper-level Electives in Sociology</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

Minor in Interdisciplinary Family Studies

**FAMILY CORE**

- Interdisciplinary Course: *(3 hours required)* ................................................. 3
- SOC 4053
- PSY 4053
- NRS 4063
- or ECH 4053
  (Student should complete a minimum of twelve hours in the minor before registering for the interdisciplinary course)

- Sociology: *(3 hours required)* ......................................................... 3
- SOC 3223, Sociology of Marriage and Family
- SOC 3213, Sociology of Intimate Relationships

- Human Development: *(3 hours required)* .................................................. 3
- PSY 3413, Adolescent Psychology
- PSY 3403, Child Psychology

- Families in Social Contexts: *(3 hours required)* ..................................... 3
- SW 3313, Introduction to Child Welfare
- SW 3343, Child Abuse and Neglect

- Family and Health: *(3 hours required)* ................................................... 3
- HLTH 3563, Human Sexuality
- NRS 2233, Basic Human Nutrition
- NRS 3353, Aging and the Older Adult

- Special Interest Option: *(3 hours required)* ............................................ 3
  An additional 3 hours may come from any of the courses listed above or from an approved special topics/Independent study course or a one-time special course offered out of another discipline. This option allows students the opportunity to explore specific areas of interest.

Total 18

Department of English and Philosophy

Professor Charles Carr, Chair; ENGLISH: Professors Ball, Calloway, Clements, Harris, Lott, Malpezzi, Spikes, Schichler, Stafford; Associate Professors Burns, Chappel, Collins, Hendershot, Lam, Moore, Narey; Assistant Professors Gennuso, Hafen, Honeker, Hunter, Spaniol, Williams; Instructor Young; PHILOSOPHY: Associate Professors Cave, Saritorel; Assistant Professors Schroer, Weekes-Schroer

Courses offered in English are designed to promote the effective use of oral and written English; to encourage selective and interpretative reading; to increase the capacity to understand and appreciate the classics, the humanities, and the fine arts; and to foster the development of personal philosophies based upon time-tested truths.

It is assumed that any student enrolling in any literature class will be able to demonstrate competent writing ability.

The program for students majoring in English is designed to afford a liberal education to meet the needs of teacher certification; to create a humane basis for careers in business, in the learned professions, or in government; and to prepare for graduate study.

Courses offered in philosophy are designed to provide students with the knowledge and logical skills to understand and critically evaluate the intellectual, moral, and religious choices they encounter.

The program for students majoring in philosophy seeks to provide the background necessary for those preparing for law school, seminary, and graduate school as well as for those who simply seek a liberal education as the foundation of a career in business or industry.

**Writing Clinic**

The department offers a special free service to students at all levels: a writing laboratory designed to help students with individual problems. Contact the department office for details.

**Major in English Bachelor of Arts**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to index for General Education Curriculum For Baccalaureate Degrees</td>
<td>46-49</td>
</tr>
</tbody>
</table>

**Language Requirement:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language <em>(Refer to index for foreign language requirements)</em></td>
<td>0-12</td>
</tr>
</tbody>
</table>

**Major Requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 2103, Introduction to Poetry and Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 2113, Introduction to Fiction</td>
<td>3</td>
</tr>
<tr>
<td>British Literature <em>(Three courses from the following with at least one course from British literature before 1800 and at least one course from British literature since 1800)</em></td>
<td>9</td>
</tr>
<tr>
<td>ENG 3223, Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3243, British Drama to 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4183, Renaissance Drama Excluding Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4213, Medieval Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4223, Milton</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4233, Sixteenth-Century Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4243, Seventeenth-Century Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4253, Restoration and Neo-classical Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4263, British Literature Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4293, British Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4293, British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4283, Modern British Literature</td>
<td>3</td>
</tr>
<tr>
<td>American Literature <em>(Two courses from the following):</em></td>
<td>6</td>
</tr>
<tr>
<td>ENG 3323, American Literature to 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3353, American Literature Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3373, Regional American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3393, American Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4333, American Romanticism</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4353, American Realism and Naturalism</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4373, Modern American Literature</td>
<td>3</td>
</tr>
<tr>
<td>Multicultural Literature <em>(One course from the following):</em></td>
<td>3</td>
</tr>
<tr>
<td>ENG 3633, Native American Verbal Art</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3643, African-American Folklore</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4833, Minority Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4893, African-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4473, Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>Global Literature <em>(One course from the following):</em></td>
<td>3</td>
</tr>
<tr>
<td>ENG 3426, Contemporary Prizes</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3433, Modern and Contemporary Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3443, Contemporary Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3453, World Literature</td>
<td>3</td>
</tr>
<tr>
<td>Theory, Writing, and Language</td>
<td>6</td>
</tr>
<tr>
<td>ENG 4103, Introduction to Contemporary Literary Theory</td>
<td>6</td>
</tr>
<tr>
<td>And one course from the following:</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3003, Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3023, Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3043, Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>ENG 3613</td>
<td>Introduction to Folklore</td>
</tr>
<tr>
<td>ENG 4023</td>
<td>Advanced Creative Writing</td>
</tr>
<tr>
<td>ENG 4063</td>
<td>The English Language</td>
</tr>
<tr>
<td>ENG 4083</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>ENG 4113</td>
<td>Genre Studies</td>
</tr>
<tr>
<td>ENG 4523</td>
<td>Mythology</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>HIST 2763</td>
<td>The U.S. To 1876</td>
</tr>
</tbody>
</table>

**Total 18**

### Specific General Education Requirements:
- Students electing to complete the B.A. in English with the Optional Concentration in Writing must take one writing course as part of the "Theory, Writing, and Language" requirement for all majors. They must also complete three upper-level writing courses chosen from the following:
  - ENG 3003, Advanced Composition
  - ENG 3023, Creative Writing
  - ENG 3043, Technical Writing
  - ENG 4023, Advanced Creative Writing

### Electives:
- English B.A. majors are encouraged to develop a strong outside area of concentration.
- Total 27-42

#### Major in Philosophy
**Bachelor of Arts**

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Language Requirement:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language (Refer to index for foreign language requirements)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1103, Introduction to Philosophy</td>
</tr>
<tr>
<td>PHIL 1503, Logic and Practical Reasoning</td>
</tr>
<tr>
<td>PHIL 3723, History of Ancient and Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 3223, History of Modern Philosophy</td>
</tr>
<tr>
<td>Epistemology/Metaphysics—one of the following courses:</td>
</tr>
<tr>
<td>PHIL 3405, Theory of Knowledge</td>
</tr>
<tr>
<td>PHIL 3420, Philosophy of Science</td>
</tr>
<tr>
<td>PHIL 4403, Metaphysics</td>
</tr>
<tr>
<td>Ethics/Value Theory—one of the following courses:</td>
</tr>
<tr>
<td>PHIL 3715, Ethics in the Health Professions</td>
</tr>
<tr>
<td>PHIL 3723, Ethics, Ethics, and Society</td>
</tr>
<tr>
<td>PHIL 4703, Continental Ethics</td>
</tr>
<tr>
<td>PHIL 4723, Aesthetics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper-level Philosophy Electives</td>
</tr>
</tbody>
</table>

- Total 124

#### Minor in English

### Additional General Requirements for Teacher Education:
- HLTH 2513, Principles of Personal Health | 3 |

<table>
<thead>
<tr>
<th>Electives:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

- Total 124

**Minor in Folklore Studies**

| Eng 3613, Introduction to Folklore | 3 |
| ENG 4643, Independent Fieldwork in Folklore | 3 |

**Folklore Studies electives**
- ENG 3523, American Folklore | 12 |
- ENG 3523, Native American Verbal Art | 3 |
- ENG 3643, African-American Folklore | 3 |
- ENG 4612, Ballad and Folksong | 3 |
- ENG 4623, Mythology | 3 |
- ENG 4633, Material Folk Culture | 3 |

- Total 18

**Minor in Philosophy**

| PHIL 1103, Introduction to Philosophy | 3 |
| PHIL 1503, Logic | 3 |

<table>
<thead>
<tr>
<th>Electives:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper-level Electives in History of Philosophy</td>
</tr>
</tbody>
</table>

- Total 18
Minor in Women and Gender Studies
Completion of the minor will require eighteen (18) upper-level hours in women and gender. For the core curriculum of the minor, students must choose at least four three-hour courses from the six courses listed below, all of which are taught at least once every two years.

Sem. Hrs.
SOC 3803, Sociology of Gender .......................................................... 3
NRS 3333, Women’s Health: Past, Present, Future .................................. 3
HIST 3693, United States Women’s History ......................................... 3
ENG 4473, Women Writers ................................................................. 3
HIST 4473, U.S. Southern Women’s History ........................................ 3
JOUR 4323, Race, Gender and Media .................................................. 3

Total 18

Department of History
Professor Alexander Sydorenko, Chair; Professors Anderson, Dougan, Milner, O’Connor, Rousey; Associate Professors Gilbert, Greenwald, Hogue, Hronek, Maynard, Posb, Wilkerson-Freeman; Assistant Professors Banta, Jones, Key

The Department of History offers to all students of the university courses of general cultural and educational value. It seeks not only to acquaint students with the development of human civilization and with their duties as citizens, but to advance them toward their vocational and professional objectives.

The major in history with the Bachelor of Arts degree is recommended for those seeking a liberal education and aspiring to careers in history, law, theology, journalism, and library work; in local, state, and national public service; in business where a knowledge of domestic and foreign affairs is desirable; and in every area which requires an understanding of human activity.

The major in social science with the Bachelor of Science in Education degree is offered specifically to prepare teachers of social science in institutions of secondary education.

Major in History
Bachelor of Arts

General Education Requirements: Refer to index for General Education Curriculum for Baccalaureate Degrees .................................................................................................................. 46-49

Sem. Hrs.
Language Requirement: Refer to index for foreign language requirements .......................................................... 0-12

Major Requirements: 42-39
Sem. Hrs.
HIST 1013 OR HIST 1023 ................................................................. 3
HIST 2763 AND/OR HIST 2773 ......................................................... 3
HIST 3333, The Practice of History .................................................. 3
United States History electives (Junior or Senior level) .................. 9
World History electives (Junior or Senior level) .......................... 6
European History electives (Junior or Senior level) ................. 9
History electives (Junior or Senior level) ........................................ 9

Electives: 24-39
Sem. Hrs.
Must include 12 hours at Junior/Senior level

NOTE: The Department of History recommends that its majors select a minor in a specific field approved by the department.

Major in Social Science
Bachelor of Science in Education

General Education Requirements: Refer to index for General Education Curriculum for Baccalaureate Degrees .................................................................................................................. 46-49

Sem. Hrs.
Specific General Education Requirements: Students with this major must take the following:
PSOC 2103, Introduction to United States Government
PSY 3013, Introduction to Psychology

Major Requirements: 47
Sem. Hrs.
United States History (includes HIST 2763 and 2773 and 9 hours of Junior/Senior level courses) ................. 15
World History (Junior/Senior level) .................................................. 6
Political Science (Junior/Senior level) .............................................. 3
POSC 3193, Arkansas Government and Politics ................................. 3
Geography .................................................................................. 3
Economics ................................................................................. 3
Sociology .................................................................................. 3
HIST 3693, Arkansas History .......................................................... 3
HIST 3333, The Practice of History ............................................... 3
HIST 4312, Computer Technologies for the History/Social Sciences Educator ........................................... 3

At least 29 of the 47 hours required for the major must be upper-level courses

Professional Education Requirements:* 33
Sem. Hrs.
** SCED 2514, Introduction to Secondary Teaching ............................................ 4
PSY 3033, Educational Psychology .................................................. 3
SE 3643, The Exceptional Student in the Regular Classroom ................................................. 3
*** SCED 4515, Performance Based Instructional Design ........................................... 5
SCED 4713, Educational Measurement with Compiler Applications .............. 3
EDSS 4603, Methods and Materials for Teaching Social Studies in the Secondary School ........................................ 3
TH 4425, Teaching Internship in the Secondary School ............................................ 12

Total 33

Additional Requirement for Teacher Education: 3
Sem. Hrs.
HLTH 2513, Principles of Personal Health ........................................... 3

* See Bachelor of Science in Education Requirements—College of Education
** Prerequisite to all other professional education course work
*** Prerequisite to EDSS 4603: see adviser

Total 127

All BSE Social Science candidates must take the appropriate Praxis Series Exams required for licensure in Arkansas and report their test results to the Department of History before graduation.

Minor in History
Sem. Hrs.
History Electives ........................................................................... 6
Upper-level United States History Electives .................................... 6
Upper-level European or World History Electives .......................... 6

Total 18

Minor in African-American Studies
Sem. Hrs.
HIST 3103, Civilizations of Africa ..................................................... 3
HIST 3673, African-American History to 1900, OR HIST 4613, African-American History since 1900 ........................................ 3
POSC 3193, Arkansas Government and Politics ................................. 3
ENG 3643, African-American Folklore ............................................. 3
Minor in Medieval Studies

Sem. Hrs.

HIST 3183, Medieval Europe 
HIST 3193, The Crusades 
ART 4553, Early Christian through Gothic Art History 
HIST 4213, History of England, 55 B.C. to A.D. 1689 
HIST 3223, Renaissance and Reformation Europe 

Electives: 

ART 4533, Renaissance Art History 
ART 4553, Early Christian through Gothic Art History

OR Independent study course approved by major adviser (maximum 3 hours)

Total 18

Minor in Modern European Studies

Sem. Hrs.

Three of the following courses:
HIST 3263, Modern Europe, 1750-1870
HIST 3273, Age of Crisis: Europe, 1870 to Present
HIST 3282, Society and Thought in Europe
HIST 4123, Soviet Russia
HIST 4223, History of Great Britain 1688-1982
HIST 4263, Rise of Modern Germany

GERD 3713, Geography of Europe and the Former USSR Lands

Electives:

One of these courses:
PHIL 3223, History of Modern Philosophy
ENG 3263, British Literature since 1800
ENG 4283, Modern British Literature
FR 3613, French Civilization
GER 3173, German Civilization

Electives: 

GERD 4213, Politics of the Former Soviet Lands
PHIL 3223, History of Modern Philosophy

OR History course from the list above

Total 18

Department of Languages

Associate Professor Warren Johnson, Assistant Chair; Professor Darwin; Associate Professors Baum, Lombeida, Owens; Instructors Durst, Garrido, Romero

Courses offered in foreign languages are designed to train students to read, write, speak, and understand the target language; to acquaint them with the literature and culture of the countries where the target language is spoken; to provide a lingual tool necessary in many professions; and to afford a source of literary and aesthetic pleasure. The department has a multimedia language laboratory where students may practice oral, aural, and writing skills.
Major in French
Bachelor of Science in Education

General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees

Specific General Education Requirements:
Students with this major must take the following:
HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876
PSOC 2103, Introduction to United States Government
PSY 2013, Introduction to Psychology

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3013, Spanish Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3183, Spanish Conversation I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3203, Spanish Conversation II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 124

Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 3023, French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FR 3463, Advanced French Grammar</td>
<td>3</td>
</tr>
<tr>
<td>FR 3473, French Composition</td>
<td>3</td>
</tr>
<tr>
<td>FR 3613, French Civilization OR FR 3623, Contemporary France</td>
<td>3</td>
</tr>
<tr>
<td>FR 4413, Survey of French Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FR 4423, Survey of French Literature II</td>
<td>3</td>
</tr>
<tr>
<td>FR 4503, Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>Other upper-level class not taken (except FR 3023 or 3703), or repeated FR 4503, Special Topics (when topic varies)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 6

Minor in French
Bachelor of Science in Education

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3303, Grammar and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3403, Grammar and Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3413, Introduction to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4443, Survey of Latin American Literature</td>
<td>3</td>
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</tbody>
</table>

Total 124

Minor in German
Bachelor of Science in Education

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 2013, Intermediate German I</td>
<td>3</td>
</tr>
<tr>
<td>GER 4023, Intermediate German II</td>
<td>3</td>
</tr>
<tr>
<td>GER 3163, Advanced German Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GER 3173, German Civilization</td>
<td>3</td>
</tr>
<tr>
<td>GER 3183, German Conversation</td>
<td>3</td>
</tr>
<tr>
<td>GER 3413, Introduction to German Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18

Professional Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876</td>
<td>3</td>
</tr>
<tr>
<td>PSOC 2103, Introduction to United States Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3703, Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 3643, Exceptional Student in the Regular Classroom</td>
<td>3</td>
</tr>
<tr>
<td>SCED 3515, Performance Based Instructional Design (with lab)</td>
<td>3</td>
</tr>
<tr>
<td>SCED 4713, Educational Measurement with Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>EDLA 4633, Methods and Materials for Teaching Foreign Languages in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>TILA 4926, Teaching Internship in the Secondary School</td>
<td>3</td>
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</table>

Total 33

Professional Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>SCOM 1203, Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>HILTH 2513, Principles of Personal Health</td>
<td>3</td>
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</tbody>
</table>

Total 6

Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>FR 2023, Intermediate French II</td>
<td>3</td>
</tr>
<tr>
<td>FR 3183, French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FR 3463, Advanced French Grammar</td>
<td>3</td>
</tr>
<tr>
<td>FR 3613, French Civilization OR FR 3623, Contemporary France</td>
<td>3</td>
</tr>
<tr>
<td>FR 4413, Survey of French Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FR 4423, Survey of French Literature II</td>
<td>3</td>
</tr>
<tr>
<td>Upper-level Elective (excluding FR 3023, FR 4601-2-3)</td>
<td>3</td>
</tr>
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</table>

Total 18

Major in Spanish
Bachelor of Science in Education

General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees

Specific General Education Requirements:
Students with this major must take the following:
HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876
PSOC 2103, Introduction to United States Government
PSY 2013, Introduction to Psychology

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3013, Spanish Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3183, Spanish Conversation I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3203, Spanish Conversation II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 124

Minor in Spanish
Bachelor of Science in Education

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3303, Grammar and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3403, Grammar and Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3413, Introduction to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4443, Survey of Latin American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 124
Minor in Spanish

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 2023</td>
<td>Intermediate Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3183</td>
<td>Spanish/Conversation I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3303</td>
<td>Grammar and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3413</td>
<td>Introduction to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3623</td>
<td>Culture and Civilization: The Americas</td>
<td>3</td>
</tr>
<tr>
<td>Spanish Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

Minor in International Studies

The Minor in International Studies aims to provide students from across the campus the opportunity to understand better in an interdisciplinary context some of the complexities of our global society. Particularly suited for students in History, Political Science, English, Languages, and International Business, the minor draws on existing offerings in these and other departments, and also provides a forum for interdisciplinary seminars and specialized courses that focus on international issues.

Note: Certain courses from this list may be offered infrequently. Consult the Chair of the relevant department if you have questions on when a course will be offered.

Requirements:

12 Hours from the following. No more than two courses may have the same prefix.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG/SC 4223</td>
<td>Urban Geography</td>
<td></td>
</tr>
<tr>
<td>SOSC 4273</td>
<td>Population and Demography</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3423</td>
<td>Contemporary Prose</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3433</td>
<td>Modern and Contemporary Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3443</td>
<td>Contemporary Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3453</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3613</td>
<td>Introduction to Folklore</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4113</td>
<td>Genre Studies</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3013</td>
<td>Civilizations of Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3123</td>
<td>Latin America, The Colonial Period</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3133</td>
<td>Latin America, The National Period</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3233</td>
<td>Renaissance and Reformation Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3253</td>
<td>Age of Science and Reason</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3263</td>
<td>Modern Europe, 1750-1870</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3273</td>
<td>The Age of Crisis, Europe, 1870 to Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3283</td>
<td>Society and Thought in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3303</td>
<td>The Modern History of the Middle East</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4113</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4123</td>
<td>Soviet Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4143</td>
<td>The Rise of Modern China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4153</td>
<td>The Rise of Modern Japan</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4213</td>
<td>History of England 550 BC to AD 1689</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4223</td>
<td>History of Great Britain, 1688 to 1882</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4253</td>
<td>The Rise of Modern Germany</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4273</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4533</td>
<td>History of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4593</td>
<td>Special Topics in World History</td>
<td>3</td>
</tr>
<tr>
<td>IS 4063</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>IS 4803</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3623</td>
<td>Eastern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3203</td>
<td>Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3213</td>
<td>African Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3223</td>
<td>European Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3233</td>
<td>Chinese Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3303</td>
<td>Introduction to International Policies</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3313</td>
<td>American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3323</td>
<td>American National Defense Policies</td>
<td>3</td>
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<tr>
<td>POSC 4213</td>
<td>Politics of the Former Soviet Lands</td>
<td>3</td>
</tr>
<tr>
<td>POSC 4223</td>
<td>Middle Eastern Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>POSC 4313</td>
<td>International Organization</td>
<td>3</td>
</tr>
<tr>
<td>FIN/IB 3813</td>
<td>International Financial Management and Banking</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3343</td>
<td>Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECON/IB 4103</td>
<td>International Trade</td>
<td>3</td>
</tr>
<tr>
<td>MISG 4123</td>
<td>International Management</td>
<td>3</td>
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<tr>
<td>MKTG 4113</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>IB 4133</td>
<td>International Law</td>
<td>3</td>
</tr>
<tr>
<td>IB 4273</td>
<td>Special Problems</td>
<td>3</td>
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<tr>
<td>RTY 4063</td>
<td>International Communication Seminar</td>
<td>3</td>
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<tr>
<td>SOSC 4253</td>
<td>Intercultural Communication</td>
<td>3</td>
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<tr>
<td>ART 4301</td>
<td>Studies in Art History</td>
<td>1-2-3</td>
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</table>

6 hours from the following. Both courses must have the same prefix. Note: FR/GER/SPAN 2033, Intermediate II, or FN/SPAN 2036, Accelerated Intermediate I and II, or equivalent preparation, are prerequisites to all courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 3613</td>
<td>French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FR 3623</td>
<td>Contemporary French</td>
<td>3</td>
</tr>
<tr>
<td>FR 4413</td>
<td>Survey of French Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FR 4423</td>
<td>Survey of French Literature II</td>
<td>3</td>
</tr>
<tr>
<td>FR 4530</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>FR 4903</td>
<td>Independent Study in French</td>
<td>3</td>
</tr>
<tr>
<td>GER 3173</td>
<td>German Civilization</td>
<td>3</td>
</tr>
<tr>
<td>GER 3413</td>
<td>Introduction to German Literature</td>
<td>3</td>
</tr>
<tr>
<td>GER 4803</td>
<td>Readings in German</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3413</td>
<td>Introduction to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3623</td>
<td>Culture and Civilization: The Americas</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3633</td>
<td>Culture and Civilization: Spain</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4413</td>
<td>Survey of Peninsular Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4423</td>
<td>Contemporary Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4443</td>
<td>Survey of Latin American Literature</td>
<td>3</td>
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<tr>
<td>SPAN 4503</td>
<td>Special Topic</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4803</td>
<td>Independent Study in Spanish</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 18

NOTE: Any student who completes the necessary courses may declare this minor and have it appear on the transcript. Each Department which offers a course included in the minor will be determined for its own majors whether courses taken for their minor can also count toward their major.

Department of Political Science

Associate Professor Richard Wang, Chair; Professors Hartwig, Marlay; Associate Professors England, Harding, Reese, Stewart; Assistant Professors Levenbach, McLean

The Department of Political Science provides students with the information and the intellectual stimulus needed to cope with the problems of modern politics.

A concrete orientation toward specific careers is provided by a program of coursework that prepares students for law school as well as careers in politics, public and foreign service, teaching, journalism, and business. Individual courses focus on urban, state, national, and international government—the executive, judicial, and legislative branches; the politics of Europe, Africa, Mideast, and East Asia; and the theoretical presuppositions underlying political differences within and between nations.

Major in Political Science Bachelor of Arts

General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 2103</td>
<td>Refer to Index for General Education Curriculum</td>
<td>46.49</td>
</tr>
</tbody>
</table>

NOTE: POSC 2103 will not be accepted to fulfill General Education Requirements in this major.

Language Requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language (Refer to Index for foreign language requirements)</td>
<td>0-12</td>
<td></td>
</tr>
</tbody>
</table>
DEPARTMENT OF CRIMINOLOGY, SOCIOLOGY, AND GEOGRAPHY

The university reserves the right to change course scheduling when circumstances dictate such changes.

Anthropology (ANTH)

2233. **Introduction to Cultural Anthropology**  
Introduction to the concept of culture. (F, S, SU)

2243. **Introduction of Physical Anthropology**  
Introduces primatology, human population genetics and micro-evolution. (F)

3203. **Introduction to Archaeology**  
Methods, theory, history, and techniques of archaeology as a branch of anthropology and a world survey of the prehistoric development of culture. (S -odd)

3233. **Native American Culture in the Mid-South**  
Study of the region’s early inhabitants, with field work opportunities. Offered in alternative years. Prerequisites: ANTH 2233 or permission of the instructor. (S -even)

4601-2-3. **Special Problems**  
Individually directed problems in Anthropology. Must be arranged with the professor and approved by department chair. (TBA)

Criminology (CRIM)

1023. **Introduction to Criminal Justice**  
The introductory survey course in criminology, dealing with the main components of the criminal justice system including the police, courts, and corrections, as well as issues and procedures pertinent to the operation of these components. Prerequisite for CRIM 4103. (F, S, SU)

2043. **Community Relations in the Administration of Justice**  
Provides an understanding of the complex factors in human relations. The philosophy of law enforcement is examined with the emphasis on the social forces which create social change and disturbance. (S)

2253. **Criminal Investigation**  
Includes fundamentals and theory of an investigation, conduct at crime scenes, collection and presentation of physical evidence, and methods used in the police service laboratory. (F)

2263. **Criminal Evidence and Procedure**  
Rules of Evidence import at the operational level in law enforcement and criminal procedures, personal conduct of the officer as a witness, examination of safeguarding personal constitutional liberties. (F)

3183. **Institutional Corrections**  
An examination of the context, structure, and dynamics of local, state, and federal correctional facilities. (F)

3193. **Community Corrections**  
An examination of noninstitutional correctional agencies and techniques including probation, parole, diversion, pre-trial release, community service, restitution, halfway house, and similar programs. (S)

3223. **Police and Society**  
Explores the relationship of the police to courts, probation, community corrections, institutional corrections, and parole. Also explores the relationship between police and other social institutions and the philosophy of police as an agent of social control. (S)

3263. **Criminology**  
Sociological patterns of crime and criminals, with emphasis on causes, effects, and prevention. (F, S)

3323. **Juvenile Delinquency**  
Causative factors in home, school, and community; extent of the problem; and methods of prevention and treatment. (F)

4103. **Criminal Justice Systems**  
General functions of the individual agencies and the duties and responsibilities of the individuals who perform these functions. (F)

4601-2-3. **Special Problems**  
Individually directed problems in Criminalology. Must be arranged with the professor and approved by department chair. (TBA)

4701-2-3. **Internship**  
Combines supervised work experience with study of selected agencies and organizations. Must be arranged with the professor and approved by the department chair. (F, S, SU)

Geography (GEOG)

2613. **Introduction to Geography**  
Emphasizes the physical and cultural patterns in the world. (F, S, SU)

3603. **World Regional Geography**  
Surveys geographic regions of the world, emphasizing the different ways of living and thinking by man in these different regions. (F -even)

3613. **Geography of the United States and Canada**  
Emphasizes the physical and cultural backgrounds of the United States and Canada. (S -even)

3643. **Introduction to Cultural Geography**  
Systematic examination of various cultures, especially their philosophies and dynamics of resource utilization and economic development. (S -even)

3683. **Economic Geography**  
Spatial distribution and interrelations of economic factors and forces and how they are affected by geographic factors. (S -even)

3703. **Political Geography**  
Content and philosophy of political geography and a geographic approach to the patterns of power and conflict among nation-states. Consideration of regional blocs, strategic areas, disputed zones, and the dynamic impact of technology. (D)
3723. **Introduction to Physical Geography: Weather and Climate** Examines the nature and character of various components of the physical environment including basic weather elements, climate, landforms, soil and natural vegetation. (D)

3743. **Introduction to Land Use Planning** Introduces the student to theoretical as well as practical aspects of land use planning, focusing on the spatial, economic, and political aspects of land use in both rural and urban settings. (D)

3813. **Introduction to Geographic Information Systems** Introduces students to Geographic Information systems concepts and techniques. (D)

4113. **Water Resources Planning** A study of the basic concepts of hydrology and the major issues associated with water resources planning and management. (D)

4223. **Urban Geography** History, structure, function, growth, location, land use, and problems of movement, and city-region relationships. (NOTE: GEOG 4223 and SOC 4223 are equivalent courses—credit may be received for only one of the courses.) (F, SU -even)

4313. **Advanced Perspective in Historical Geography** Examines issues that are both chronological and spatial in nature including settlement patterns, migration, and population trends. (D)

4601-2-3. **Special Problems** Individually directed problems in Geography. Must be arranged with the professor and approved by department chair. (TBA)

4613. **Conservation of Natural Resources** Current problems associated with the conservation of natural resources. (D)

4623. **Environmental Management** The dynamic nature of the earth’s surface, using the hydrologic cycle as a broad framework for analyzing the physical environment and for assessing sound environmental management practices. (S -even)

4633. **Climatology** Climatic regions of the world; controlling factors of weather. (D)

4643. **Geography of Arkansas** Arkansas’ physical, cultural, and historical landscapes. (SU)

4683. **Senior Seminar** The more important research methods in obtaining geographical information. (D)

4703-6. **Internship in Geography** Combines relevant work experience with classroom theory in public and private planning agencies. Must be arranged with professor and approved by the department chair. (D)

4813. **Special Topics in Geography** An intensive study of a region or pertinent topic in geography. May be repeated once when topic changes. (D)

**Sociology (SOC)**

2213. **Principles of Sociology** Human society and social behavior. (F, S, SU)

2223. **Social Problems** Application of sociological concepts and methods in the analysis of current social problems in the United States, including family and community disorder, delinquency and crime, mental illness, and intergroup relations. (Cross listed as SW 2223) (F, S, SU)

3003. **Sociology of Gender** Origins, acquisition, structure, and change of gender roles in contemporary society, examined in terms of impact upon both the individual and society. (F)

3213. **Sociology of Intimate Relationships** Aspects of close social relationships; roles, power, love, conflict, and change. (F -even)

3223. **Sociology of Marriage and the Family** Emphasizes the sociocultural factors influencing the structure and development of marriage and the family. (F, S, SU)

3273. **Social Stratification** Status and social stratification; power, prestige, and social opportunities of the upper, middle, and lower classes; and class differences in behavior, with definite emphasis on social class in America. (S)

3293. **Social Behavior** Factors influencing behavior in social situations. (S)

3333. **Sociology of Health and Illness** Social causation of diseases, social definitions of health and illness, social aspects of healing and rehabilitation, the nature of health professions, and the delivery of health-care services. (D)

3353. **Minority Groups** Cultural approach to racial and nationality groups in American society. Competition, conflict, accommodation, and assimilation are studied as processes. (F, S, SU)

3363. **Sociology of Religion** Examines the relationship of religion to society, focusing on the functions and dysfunctions of religious systems on other social institutions. (D)

3373. **Technology and Society** This course will critically examine how technology has changed the society in which we live. In doing so, we will explore how technologies are introduced, who benefits from their implementation, the risks involved with technologies, and how technology can be controlled. (S)

3381. **Laboratory for Social Statistics** Laboratory associated with SOC 3383. Two hours per week. Corequisite: SOC 3383 (F, S)

3383. **Social Statistics** Pertinent concepts, techniques, methods, and approaches used in sociological investigation. (F, S)

4053. **Today’s Families: Interdisciplinary Approaches** An interdisciplinary course designed to promote a critical approach to examining the family and its role in society. Prerequisite: 12 hours of coursework in Interdisciplinary Family Minor or instructor's permission. Cross-listed as ECH 4053, NRS 4053, PSY 4053.

4203. **Social Deviance** Describes and explains the violation of social norms. (S)

4213. **The Sociology of Childhood and Adolescence** Focuses upon the family life cycle influences the sociocultural experiences of children and adolescents. (SU)

4223. **Urban Sociology** History, structure, function, growth, location, land use, and problems of movement, and city-region relationships. (NOTE: SOC 4223 and GEOG 4223 are equivalent courses—credit may be received for only one of the courses.) (F, SU -even)

4223. **Urban Geography** History, structure, function, growth, location, land use, and problems of movement, and city-region relationships. (NOTE: GEOG 4223 and SOC 4223 are equivalent courses—credit may be received for only one of the courses.) (F, SU -even)

4233. **Social Organization** Concepts and principles of social organization and disorganization and the disruptive effects of social and cultural dynamics upon the individual, family, community, nations, and world. (SU)

4243. **Social Theory** Social thinking through the ages. (F)

4253. **Rural Sociology** Controlled discussion of rural sociological issues, including: historical development of rural sociology; overview of substantive areas, with emphasis on current research and theoretical issues; future of the discipline of rural sociology. (S -odd)

4273. **Population and Demography** Population patterns of the world and the United States with emphasis on the various causes of migration. (NOTE: SOC 4273 and GEOG 4273 are equivalent courses—credit may be received for only one of the courses.) (S, SU -odd)
4293. Methods of Social Research Practical applications of sociological research techniques. (F, S)
4323. Applied Research Techniques for analyzing social science data using the Statistical Package for the Social Sciences and other data analysis systems. Prerequisites: SOC 3383 and 4293, or equivalents. (F, S)
4343. Geographic Information Systems for the Social Sciences An introduction to the applied analysis of social and environmental geographic data. Includes a discussion of geographic data, maps, and conducting applied geographic analysis. Prerequisites: SOC 3383, SOC 4293 or POSC 3003 or PSY 3103 and PSY 3123 or ECON 2113 and ECON 3113 or AGRI 3233 and AGRI 4233 or TECH 3773 and TECH 4813. (F)
4353. Sociology of Aging Survey of theories, methodologies, concepts, and major research findings regarding the aging of individuals and societies, using the U.S. as a central example. (F)
4363. Environmental Sociology This course explores how our views of nature and the environment are socially constructed. In this context, we will examine how numerous environmental issues are created and exacerbated by social issues. We will also investigate actions that will reduce our ecological footprint. Permission of instructor required. (D)
4373. Sustainable Development in Modern Society This course will introduce students to the concept of sustainable development. In our investigation of what a sustainable community would look like. Issues such as development paradigms, human-environment interactions, and politics will be discussed on local, national, and international scales. Permission of instructor required. (D)
4601-2-3. Special Problems Individually directed problems in sociology and criminology for juniors and seniors. Must be arranged in consultation with a professor, and approved by the department chair. (F, S, SU)
4703. Internship Combines supervised work experience with study of selected agencies and organizations. Must be arranged with the professor and approved by the department chair. (F, S, SU)

DEPARTMENT OF ENGLISH AND PHILOSOPHY

The university reserves the right to change course scheduling when circumstances dictate such changes.

English (ENG)

0002. Writing Tutorial Intensive, individualized work on the basic strategy, organization, diction, and grammar of the collegiate essay. To be taken in conjunction with Composition I. (F, S)
1003. Composition I Study and practice of fundamentals of written communication including principles of grammar, punctuation, spelling, organization, and careful analytical reading. Prerequisite, with grade of C or better, for ENG 1013. (F, S)
1013. Composition II Continues the practice of ENG 1003, to develop further the skills learned in that course. Based on reading and discussion of various types of writing, the students' essays will provide practice in different kinds of rhetorical development including research and documentation. Prerequisite: must complete ENG 1003 with grade of C or better for degree. (F, S)
0103. Composition for Non-Native Speakers I Comprehensive advanced grammar, sentence structure, and vocabulary for students scoring under 500 on the TOEFL. (F, S)
0203. Composition for Non-Native Speakers II Designed to help non-native students develop their ideas into well organized, well developed and effective paragraphs and essays based on major rhetorical patterns. Grammar, sentence structure, and the complete writing process are emphasized. (F, S)
2003. Introduction to Literature of the Western World I Introduction to the analysis and interpretation of literary works from several historical periods ranging from early civilizations through the Renaissance. (F, S)
2013. Introduction to Literature of the Western World II Introduction to the analysis and interpretation of literary works from several historical periods ranging from the Renaissance to the present. (F, S)
2103. Introduction to Poetry and Drama Poetry and drama with emphasis on analytic reading and writing skills. (F, S)
2113. Introduction to Fiction Short fiction and the novel with emphasis on analytic reading and writing skills. (F, S)
3003. Advanced Composition Emphasis on the development of structure and style in the literary essay and on research skills. (S)
3013. Practical Writing Emphasis on practical writing skills applicable to students in all disciplines. Will not apply to English degree requirements. (F, S)
3023. Creative Writing Instruction and practice in the writing of poetry, fiction, and drama. (F)
3043. Technical Writing Forms and techniques of technical writing. (S -odd)
3223. British Literature to 1800 Major British authors, genres, and movements from the beginning to the end of the Neoclassical period. (F -even)
3233. Shakespeare Introduction to the works of Shakespeare. (F)
3243. British Drama to 1800 Drama in the Middle Ages, Renaissance, Restoration, and Neoclassical periods, including at least three Shakespeare plays. (S -odd)
3263. British Literature Since 1800 Major British authors, genres, and movements from the Romantic period to the present. (F -odd)
3293. British Novel Representative British novels. (S -even)
3323. American Literature to 1865 Major American authors, genres, and movements from the beginning through the Civil War. (F -even)
3363. American Literature Since 1865 Major American authors, genres, and movements from the Civil War to the present. (F -odd)
3373. Regional American Literature Writings from a selected region of the United States. (F -odd)
3383. American Novel Representative American novels. (S -odd)
3423. Contemporary Prose Global fiction and/or non-fiction from 1945 to the present, including British or American and world authors. (F -even)
3433. Modern and Contemporary Drama Global drama from Ibsen to the present, including British or American and world authors. (S -even)
3443. Contemporary Poetry Global poetry from 1945 to the present, including British and/or American and world authors. (F -odd)
3453. World Literature  Selected authors, genres, movements, or themes in world literature. (F -even)

3463. Literature and Film  A study of how literature and literary tradition translate into cinema. Prerequisites: ENG 2003, 2013, 2103, 2113 or equivalent. (F -even)

3482. Special Projects  Practicum in the teaching of composition for the pre-professional. Prerequisite: consent of instructor. (F)

3483. The Bible as Literature  Analytical/critical study of selected books of the Bible with emphasis on its component genres, literary qualities, and influence. May not be repeated for credit. (S -odd)

3493. Popular Literature  One or more selected topics of popular literature—for example, science fiction, fantasy, sport, detective fiction, and the best seller. (S -even)

3583. Literature for Adolescents  Fiction, poetry, and drama which meet the needs of upper elementary, middle school, and high school students. (F)

3613. Introduction to Folklore  Collection, classification, and analysis of folklore, with special emphasis on oral literature. (F)

3623. American Folklore  Survey of the unofficial culture which has helped to shape the American experience, with special emphasis on oral literature, conventional belief, and traditional lifeways. (S -odd)

3633. Native American Verbal Art  Examination of oral literature of the indigenous peoples of North America and of contemporary literature written by American Indians. (S -even)

3643. African-American Folklore  A study of African-American culture through New World black traditions, including oral narratives and folksongs. (F -even)

4023. Advanced Creative Writing  Writing poetry, fiction, or drama. Prerequisite: ENG 3023 or permission of instructor. (S)

4043. Theory in the Teaching of Composition  An introduction to teaching composition based on current research and theory with special emphasis on practical applications in the secondary school classroom (S).

4053. The English Language  Historical, structural, and linguistic development of the English language, emphasizing sound change and analysis of spoken and written English. (F -even)

4063. Comparative Modern Grammars  Major grammatical systems: traditional, structural, and transformational. (S)

4083. Introduction to Linguistics  Phonetics, phonemics, morphology, syntax, and semantics. (F -odd)

4103. Introduction to Contemporary Literary Theory  An introduction to the major theoretical approaches to literary criticism, ranging from formalism through post-structuralism. (F -odd)

4113. Genre Studies: Tragedy, Comedy, Romance or Epic  Studies in one of four genres in all its formal aspects and changing manifestations in literature, including fiction, drama, and poetry. (S -odd)

4183. Renaissance Drama Excluding Shakespeare  Familiarizes the student with the contemporaries of Shakespeare in the Elizabethan/Jacobean theatre. Some familiarity with Shakespeare helpful, but not essential. (S -even)

4213. Medieval Literature  English literature during the Middle Ages. Selected continental writings may be included. (S -odd)

4223. Milton  An intensive study of selected works of John Milton. (F -odd)

4233. Sixteenth-Century Literature  English literature during the sixteenth century. Selected continental writings may be included. (S -even)

4243. Seventeenth-Century Literature  English literature during the seventeenth century. Selected continental writings may be included. (F -even)

4253. Restoration and Neoclassical Literature  English literature during the late seventeenth and eighteenth centuries. Selected continental writings may be included. (S -odd)

4263. Romantic Literature  Major currents and figures of the English Romantic movement. Selected background writings may be included. (F -even)

4273. Victorian Literature  Major currents and figures in the Victorian Age. Selected background writings may be included. (S -odd)

4283. Modern British Literature  English literature in the twentieth century. Selected background writings may be included. (F -odd)

4333. American Romanticism  American literature in the first half of the nineteenth century. (S -odd)

4353. American Realism and Naturalism  American literature in the second half of the nineteenth century and the early twentieth century. (S -even)

4363. African-American Literature  Survey of African-American literature from its beginnings to the present. (S -odd)

4373. Modern American Literature  American literature since World War I. (S -even)

4383. Minority Literature  Selected works of American minority writers from such groups as Blacks, Native Americans, or Chicanos. (F -even)

4463. Special Topics  Intensive study of individual authors, limited periods, movements, or specific theme. (S -even)

4473. Women Writers  A study of literature written by women. (S -odd)

4613. Ballad and Folksong  Analysis and interpretation of oral poetry, especially that of the English-speaking world. (F -odd)

4623. Mythology  Content, structure, and belief systems of various mythologies from the perspectives of selected mythographers. (S -odd)

4633. Material Folk Culture  The analysis and interpretation of traditional skills, services, and art/craft objects provided in folk societies. (S -even)

4643. Independent Fieldwork in Folklore  Development and implementation of a research agenda, using standard field methods in folklore studies such as the tape-recorded interview and participant observation. Prerequisites: ENG 3613 and permission of instructor. (F, S)

4703. Persuasive Writing  Practice in reading and writing persuasive texts, with study of theories relating to rhetoric and persuasion. (F)

Philosophy (PHIL)

1103. Introduction to Philosophy  Basic problems of philosophy based upon readings in the works of selected leading philosophers. A prerequisite for upper-level philosophy. (F, S)
1503. Logic and Practical Reasoning Methods and principles used in distinguishing correct from incorrect reasoning, designed to give the student a working knowledge of the detection of fallacies, the definition of terms, and the recognition of deductive and inductive thought. (F, S)

3213. History of Ancient and Medieval Philosophy Development of Western philosophy from the time of the Pre-Socratics to the end of the Middle Ages. (F -even)

3223. History of Modern Philosophy Development of Western philosophy from the Renaissance to the present. (S -odd)

3313. Philosophy of Religion Basic religious beliefs and practices, with emphasis on the problems of reason and revelation, the existence and nature of God, evil and immortality. (F -odd)

3403. Theory of Knowledge Basic questions about the nature of human knowledge with emphasis on truth, evidence, and justification. (F -even)

3423. Philosophy of Science Provides critical examination of methods and presuppositions of science. (F -odd)

3553. Symbolic Logic Rigorous treatment of sentential logic and predicate logic, and basic issues in metatheory. Prerequisite: PHIL 1503 or MATH 1023 or consent of instructor. (D)

3623. Eastern Philosophy Major non-western philosophical traditions including Hinduism, Taoism, Buddhism, and Confucianism. (S -odd)

3703. Philosophy of Law Conceptual and ethical questions relating to law and philosophy, including analytical jurisprudence, the justification of punishment, etc. (S -odd)

3713. Ethics in the Health Professions Examination of the moral and conceptual issues raised in the practice of medicine and the attendant medical technology. (S)

3723. Computers, Ethics, and Society Introduction to moral, professional, and legal issues involving computer hardware and software. Prerequisite: PHIL 1103 or permission of instructor. (S -even)

3773. Topics in Feminist Philosophy Examining questions from the perspective of feminist philosophical inquiry. Topics including, but not limited to Feminist Epistemology, Feminist Ethics, and Feminist Philosophy of Science. Prerequisite: PHIL 1103 or instructor's permission. (D)

4213. Contemporary Philosophy Major trends in contemporary philosophy, particularly British Empiricism, European Existentialism, and American Pragmatism. (S -odd)

4403. Metaphysics Introduction to basic issues in analytic metaphysics including philosophy of mind, personal identity, determinism, realism, supervenience, and modalities. (F -odd)

4443. Philosophy of Mind Foundational issues in the study of mind: includes the nature of mind, the relation of psychology to physical science, and theories of mental content. Prerequisite: PHIL 1103 or permission of instructor. (S -even)

4703. Contemporary Ethical Issues Examination of important recent theories of the nature or content of moral language, judgments, and norms. (F -even)

4723. Aesthetics The nature of art, designed to help students respond intelligently to works of art. (F -even)

4733. Environmental Ethics An investigation of the ethical dimensions of environmental issues. Prerequisite: PHIL 1103. (F -odd)

4743. Social and Political Philosophy Explores the justification, or lack thereof, of social and political institutions. Prerequisite: PHIL 1103, Introduction to Philosophy, equivalent, or instructor's permission. (F -even)

4801-2-3. Readings in Philosophy Independent readings for advanced students only. Must have consent of department chair. May be repeated for a maximum of 6 hours credit. (F, S)

4883. Philosophical Classics Advanced study of selected central works in philosophy. Content will vary. Prerequisite: 9 hours of philosophy. (D)

DEPARTMENT OF HISTORY

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

General History (HIST)

3203. The History of Law Law from primitive beings in early societies through the English Common Law; development of law in America. (D) (Recommended for Pre-Law students)

3213. Introduction to Museum Work Emphasizes both theory and hands-on experience in administration, collections, management, exhibition techniques, museum education, and documenting artifacts. (S)

3293. History of Science The emergence of modern science since 1500. Thematic studies to illuminate revolutionary change in science and the impact of science-based technology on society. (S -even)

3333. (4333) The Practice of History Experiential study of historical scholarship: research, writing, and criticism. To be taken at the beginning of the major. (Required for all history degrees.) (F, S)

4303. The Idea of History Study of the idea of history in its chronological, practical, and historiographical manifestations. (S)

4312. Computer Technology for the History/Social Sciences Educator Hands-on experience in evaluating, creating and using history web sites and software, and developing presentation skills using the computer, for teaching in the secondary classroom. (S, SU)

4513. Museum Collections Management An overview of the management and preservation of material culture in museums. Policy development, documentation and care of collections are broad topic areas. (D)

4601-2-3. Special Problems in History Individual problems in history for juniors and seniors, arranged in consultation with a professor. Must be approved by the department chair. (D)

4703. Internship in Public History Supervised practical experience with public agencies or private businesses in history-related subjects. Prerequisite: consent of the department chair. (D)

4763. Public History Seminar Examines the philosophical, ethical, and practical aspects of applying the historian's craft and training outside the classroom.
4803. Senior History Seminar Advanced study of selected topics, with focus on historical research, writing and critical thinking. Senior history or social science majors only. Content varies. (D)

United States History (HIST)

2763. The United States To 1876 Social, economic, and political developments from Columbus to the end of Reconstruction. (F, S, SU)

2773. The United States Since 1876 Social, economic, and political developments from Reconstruction to the present. (F, S, SU)

3083. History of Arkansas Social, economic, and political developments from the coming of the white man to the present. (D) (Required of BSE Social Science majors)

3323. United States Environmental History Examines the economic, philosophical, ethical and aesthetic issues involved in the history of conservation, preservation, management and exploitation of the American environment. (F -odd)

3473. United States Labor History The rise and progress of labor organizations and their impact on American life. (F -even)

3483. The United States from 1917-1941 Social, political, and economic developments in the United States from 1917 to 1941. (S -odd)

3493. The United States Since 1945 Social, political, and economic developments in the United States from 1945 to the present. (F -odd)

3503. U.S. Foreign Relations since 1900 History of United States relations with foreign nations from 1900 to the recent past. (F -even)

3533. Society and Thought in the United States Religion, reform, and thought in the history of the United States. (F -even)

3563. Constitutional History of the United States Origin and development of American legal and constitutional systems. (F -odd) (Recommended for pre-law students)

3583. History of Law Enforcement Policing, crime, and the criminal justice system in the United States. (S -even) (Recommended for criminology majors)

3603. The American South The South in American history from Jamestown through the twentieth century. (F -odd)

3623. The American West The American West from the Lewis and Clark expedition to the closing of the frontier. (F -even)

3653. The American Indian History and culture of the American Indian and the role of government in Indian affairs. (S -even)

3673. African-American History to 1900 The African heritage and the role of the African-American in the United States from 1619 to 1900. (F -odd)

3693. United States Women's History The role of women in United States history from 1600 to the present. (S -odd)

3723. The History of Rural America Rise and decline of rural America and its impact on society. (SU -even)

3743. The Urban Revolution in America Evolution of the American city and its impact on society. (S -even)

3753. History of American Technology Development and institutionalization of technology in American society to the present. Includes innovation in homes, business, agriculture, transportation, construction, medicine, and government. (S)

3773. American Economic Development Structure and evolution of American economic development with emphasis on the problems of agriculture, labor, transportation, and business. (S -odd)

3813. The United States in World War I U.S. military involvement in World War I and the social, economic and political impact of the war on American society. (F)

3823. The United States in World War II American military involvement in World War II and the social, economic and political impact of the war on American society. (S)

4413. Colonial North America Colonial development from Jamestown through the American Revolution. (F -even)

4423. Foundations of the American Republic, 1783-1850 Major political and social developments between the Revolution and the Civil War. (SU -odd)

4433. The United States since 1900 and its impact on the development of socio-economic, political, and cultural history. (S-even)

4453. United States Civil War and Reconstruction The Civil War period and the resulting problems of Reconstruction. (F -even)

4463. U.S. Gilded Age/Progressive Era Explores the dramatic economic, social, and political upheavals of 1880-1917. (S -odd)

4473. U.S. Southern Women’s History Examines the history and changing status of women in the U.S. South from the 1400s to the present. (S -even)

4583. Special Topics in American History (subtitle varies) Topic varies, but especially emphasizes new developments in American history. May be repeated for credit with different subtitle. (D)

4613. African-American History Since 1900 The African-American experience in the United States since 1900 and its impact on the development of socio-economic, political, and cultural history. (S-even)

World and European History (HIST)

1013. World Civilization To 1660 The great civilizations, with emphasis on the main historical currents influencing modern society. (F, S, SU)

1023. World Civilization Since 1660 Continuation of HIST 1013, with emphasis on the past three centuries. (F, S, SU)

3013. Civilizations of Africa African history from its earliest beginnings to modern times. Specific attention given to social, economic, political, and religious factors. Regional focus on West Africa. (S -even)

3123. Latin America, The Colonial Period From the pre-Columbian Indian civilization to the era of independence. (F -odd)

3133. Latin America, The National Period Development of Latin American nation states. (S -even)

3173. Classical Mediterranean Civilization Major developments of the Greco-Roman civilizations pertaining to our present civilization. (F -even)

3183. Medieval Europe Europe from 500 to 1500 with emphasis on social institutions. (S -odd)
3193. The Crusades Medieval Crusading and Crusaders: the wars, religions, politics, economics, social effects and lasting legacies of the Crusade movement. (F -odd)

3223. Renaissance and Reformation Europe Political, economic, and cultural change in post-medieval Europe, 1350 to 1600.

3233. Age of Science and Reason Europe between the sixteenth and eighteenth centuries. (S -even)

3253. Modern Europe, 1750-1870 Europe during the French and Industrial Revolutions; a study of the nation state system and imperialism. (F -odd)

3273. The Age of Crisis: Europe, 1870 to Present World War I, the rise of Fascism, Communism, and the Welfare State. (S -even)

3283. Society and Thought in Europe Evolution of leading European cultural values against the background of socioeconomic change, 1500 to the present. (F -even)

3303. The Modern History of the Middle East: 1800 to the Present Major developments in Middle Eastern history with emphasis on the twentieth century. (F -odd)

4113. Imperial Russia Russian history to the Revolution of 1917. (F -odd)

4123. Soviet Russia The U.S.S.R., 1917 to present. (S -even)

4133. History of Ancient China Ancient Chinese civilization from the founding of the Shang Dynasty (1766 B.C.) to the end of the Three Kingdoms Period (A.D. 280). (D)

4143. The Rise of Modern China Major developments in Chinese history with emphasis on the twentieth century. (F -odd)

4153. The Rise of Modern Japan Major developments in Japanese history with emphasis on the twentieth century. (S -odd)

4213. History of England, 55 B.C. to A.D. 1689 The social, political, and ecclesiastical history of England from Julius Caesar's reconnaissance to the Glorious Revolution. (F -even)

4223. History of Great Britain: 1688 to 1982 The social, political, economic, and imperial history of Great Britain from the Glorious Revolution to the Falklands War. (S -odd)

4253. The Rise of Modern Germany Germany and its role in world affairs since 1648, with emphasis on the period from Bismarck to Hitler. (F -even)

4273. History of Mexico Emphasizes contemporary developments and relations with the United States. (S -odd)

4553. History of Medicine Worldwide survey of medicine, disease, and health from prehistoric times to the present. (F -odd)

4593. Special Topics in World History (subtitle varies) Topic varies, but especially emphasizes new developments in World History. May be repeated for credit with different subtitle. (D)

DEPARTMENT OF LANGUAGES

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Arabic (AR)

1036. Accelerated Elementary Arabic Pronunciation and basic grammar, simple speaking and listening comprehension skills, and cultural understanding of the Arabic world. (F)

2036. Accelerated Intermediate Arabic Further development of listening and speaking skills, with increasing emphasis on reading and writing. Prerequisite: AR 1036 (S)

French (FR)

NOTE: Except by consent of instructor FR 2023 or FR 2036 is a prerequisite for all French courses at the 3000 and 4000 levels.

1013. Elementary French I Practice toward developing basic proficiency in listening comprehension, speaking, reading, writing, and cultural understanding of the French-speaking world. (F)

1023. Elementary French II Continuation of FR 1013. Prerequisite: FR 1013 or consent of department chair. (S)

1036. Accelerated Elementary French I & II Intensive one-semester course that covers the material of instruction designed for a regular academic year. (F)

2013. Intermediate French I Continues the development of the basic language skills, with increasing emphasis on the written elements of the language. Prerequisite: FR 1023 or FR 1036 or consent of department chair. (F)

2023. Intermediate French II Continuation of FR 2013. Prerequisite: FR 2013 or consent of department chair. (S)

2036. Accelerated Intermediate French I & II Intensive one-semester course in Intermediate French designed to cover the material programmed for the regular second year of French. Prerequisite: FR 1036 or FR 1023 or consent of department chair. (S)

3013. French Phonetics Intensive work on the sound system of French to develop skills in pronunciation and listening comprehension. (F-even)

3023. French for Reading Knowledge Learning to read and translate French with the aid of a dictionary. For the student with no previous preparation in the language. Completion of this course with a grade of "B" or better is required to satisfy the graduate reading requirement in a foreign language.) (D)

3183. French Conversation Practice toward developing facility in oral expression in various everyday situations. (F-even)

3203. Advanced French Conversation A continuation of FR 3183. Prerequisite: FR 3183. (S-odd)
3413. Introduction to French Literature  An introduction to French literature from the Middle Ages to the present day with selections from literary masterpieces representing the major trends of each period. (D)
3463. Advanced French Grammar  Grammar and structure of the French language in order to develop students’ facility in the written language. (F-odd)
3473. French Composition  Practice in writing in order to develop precision in grammar and vocabulary, sensitivity toward levels and styles of language, and appropriate strategies for various rhetorical contexts. Prerequisite: FR 3463 or consent of instructor. (S-even)
3613. French Civilization  The historical background, the geographical setting, and the spirit and character of the French, together with some treatment of the literature, arts, sciences, and institutions of France. (F-odd)
3623. Contemporary France  Readings and discussions on post-war French political and social history, mentalities, and current problems. (S-odd)
3703. French for International Business  Readings, exercises, and discussions to teach specialized vocabulary and understanding of business practices in the French-speaking world for students interested in careers in international trade. (D)
4413. Survey of French Literature I  Study of selected texts from the Middle Ages to the end of the eighteenth century emphasizing critical analysis in the historical context. (F-odd)
4423. Survey of French Literature II  Study of selected texts from the nineteenth century to the present, emphasizing critical analysis in the historical context. (S-even)
4503. Special Topics  Advanced study in a particular area of literature, culture, or language. Topic varies. May be repeated when topic changes. (S-even, F-even)
4601-2-3. Special Project in Teaching  An independent study and practical application of selected professional topics in language teaching. May not be used to satisfy any major requirements. May be repeated for up to six hours of credit. Prerequisite: consent of department chair. (D)
4801-2-3. Independent Study in French  Independent course of study in French for advanced students only. Must have consent of department chair. May be repeated for up to six hours of credit for majors and up to three hours of credit for minors. (D)

German (GER)

NOTE: Except by consent of instructor and department chair, unless otherwise indicated, GER 2023 is a prerequisite for all upper-level German courses.

1013. Elementary German I  The listening-speaking-reading-writing approach to develop basic language skills. (F)
1023. Elementary German II  Continuation of GER 1013. Prerequisite: GER 1013 or consent of department chair. (S)
2013. Intermediate German I  Continues the development of the basic language skills, with increasing emphasis on the written language. Prerequisite: GER 1023 or consent of department chair. (F)
2023. Intermediate German II  Continuation of GER 2013. Prerequisite: GER 2013 or consent of department chair. (S)

3023. German for Reading Knowledge  Learning to read and translate German with the aid of a dictionary. For the student with no previous preparation in the language. (Completion of this course does not satisfy the undergraduate language requirement. Completion of this course with a grade of "B" or better is required to satisfy the graduate reading requirement in a foreign language.) (D)
3163. Advanced Grammar and Composition  Grammar and structure of the German language and of various German literary styles in order to develop students’ facility in the written language. (F-odd)
3173. German Civilization  The historical background, the geographical setting, and the spirit and character of the Germans, together with some treatment of the literature, arts, sciences, and institutions of Germany. (S-odd)
3183. German Conversation  Elements of spoken German with emphasis on the modern idiom. (F-even)
3213. Survey of German Literature I  Includes the principal literary movements in Germany from the Middle Ages to the Romantic Period. (D)
3223. Survey of German Literature II  Includes the principal literary movements in Germany from the Romantic Period to the present. (D)
3413. Introduction to German Literature  Introduction to poetry, drama, and short prose; develops further the students’ reading skills and introduces them to analysis and explication of the literary text. Prerequisite: GER 2023. (S-even)
4801-2-3. Readings in German  Independent readings for advanced students only. Limited to three hours. Must have consent of department chair. (D)

International Studies (INST)

4503. Special Topics  Focused treatment of an issue, theme, or problem related to international history, politics, culture, or related area. (D)
4803. Independent Study  Independent study for International Studies minor only. Must have consent of International Studies advisor and Dept. of Languages chair. (D)

Spanish (SPAN)

NOTE: Except by consent of instructor SPAN 2023 or SPAN 2036 is a prerequisite for all Spanish courses numbered at the 3000 and 4000 levels.

1013. Elementary Spanish I  The listening-speaking-reading-writing approach to develop basic language skills. (F, S, SU)
1023. Elementary Spanish II  Continuation of SPAN 1013. Prerequisite: SPAN 1013 or consent of department chair. (F, S, SU)
1036. Accelerated Elementary Spanish I & II  Intensive one-semester course that covers the material of instruction designed for a regular academic year. (F, S)
2013. Intermediate Spanish I  Further development of basic language skills, with increasing emphasis on the written elements of the language. Prerequisite: SPAN 1023 or consent of department chair. (F, S, SU)
2023. Intermediate Spanish II  Continuation of SPAN 2013. Prerequisite: SPAN 2013 or consent of department chair. (F, S, SU)
2036. Accelerated Intermediate Spanish I & II  Intensive one-semester course in Intermediate Spanish designed to cover the material programmed for the regular second year of Spanish. Prerequisite: SPAN 1036 or SPAN 1023 or consent of department chair. (F, S)

3013. Spanish Phonetics  Provides a developmental study of sound production in Spanish through study and various modes direct application/interaction. (S - even)

3183. Spanish Conversation I  Practice toward developing facility in oral expression in various everyday situations. (F)

3203. Spanish Conversation II  Practical strategies for effective communication in Spanish with emphasis on the development of skills for the exchange of ideas in the target language. Prerequisite: SPAN 3183 or consent of instructor. (S)

3303. Grammar and Composition I  Extensive practice in writing descriptive, narrative, and expository essays, including a review of the grammar of the language. (F)

3403. Grammar and Composition II  As a continuation of SPAN 3303, the course offers extensive practice in writing expository essays utilizing analysis and classification, comparison and contrast, argumentation, as well as practice in writing papers which interpret research. Prerequisite: 3303 or consent of instructor. (S)

3413. Introduction to Hispanic Literature  An introduction to poetry, drama, novel, and short story with emphasis on analytical reading. (F, S)

3623. Culture and Civilization: The Américas  A panoramic approach to the histories, geographies, social constructs, and political scenarios of the Spanish-speaking Americas. Prerequisite: SPAN 3183 or consent of instructor. (S - odd)

3633. Culture and Civilization: Spain  A broad approach to the history, geography, social constructs, and political scenarios of Spain. Prerequisite: SPAN 3183 or consent of instructor. (S - even)

3703. Spanish for International Business  Oral and written training in vocabulary and idiomatic expressions used in international trade transactions. Listening, speaking, reading, and writing are targeted, with the objective of preparing students to handle diverse international business transactions in Spanish. (S - odd)

4143. Survey of Peninsular Spanish Literature  An intensive study of the principal literary movements and genres in Spain from the Middle Ages to the Generation of ‘98. Prerequisite: SPAN 3413 or consent of instructor. (F - odd)

4423. Contemporary Peninsular Spanish Literature  An intensive survey of the principal literary movements and authors in Spain from the Generation of ‘98 to the present. Prerequisite: SPAN 3413 or consent of instructor. (S - even)

4443. Survey of Latin American Literature  An intensive survey of the principal literary movements and authors in Latin America from the Colonial Period to the present. Prerequisite: SPAN 3413 or consent of instructor. (F - even)

4503. Special Topics  Advanced study in a particular area of literature, culture, or language. Topic varies. May be repeated when topic changes. Prerequisite: SPAN 3413 or consent of instructor. (F - odd)

4601-2-3. Special Project in Teaching  Independent study of selected professional topics in language teaching. May not be used to satisfy any major requirements. May be repeated for up to six hours credit. Prerequisite: consent of department chair. (D)

4801-2-3. Independent Study in Spanish  For advanced students only. Must have consent of department chair. May be repeated for up to six hours of credit for majors and up to three hours of credit for minors. (D)

DEPARTMENT OF POLITICAL SCIENCE

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

General Politics (POSC)

1003. Introduction to Politics  An introduction to the use of politics for the resolution of conflict in communities, nations, and the international system through the study of political concepts and relationships, with applications to current problems. (F, S)

4003. Special Topics: Political Psychology  Focuses on the core concepts and theories involved in the psychological understanding of politics and on the applications of these concepts and theories across the substantive areas of the discipline of political science. In addition, this course is concerned with the development of empirical studies by the students. May be repeated once for credit with a different subtitle. (D)

4811-2-3. Internships  Placement of students in community-based and government agencies to provide a practical framework for applying the theoretical instruction of the classroom. (D)

American Politics (POSC)

2103. Introduction to United States Government  The constitution, government, and politics of the United States. (F, S, SU)

3113. American Municipal Government  Types of governments in municipalities of the United States. (F, S)

3123. American Constitutional Law  Constitutional theories as expounded in decisions of the Supreme Court since 1789. Questions such as the nature of law and political theories underlying Supreme Court decisions will be investigated. (F)

3133. Political Parties and Interest Groups  American political parties and interest groups. (S)

3143. American State Government  An examination of the powers and institutions and policies of state and local governments. (F, S)

3153. American Executive Process  Governmental executives and executive processes in the American political system. (S - even)

3163. Black Politics  Exposes students to the variety of literature on Black people in American politics; political strategies and actions are the major themes. (S - even)

3173. Civil Liberties  Judicial and statutory interpretations of the fundamental liberties contained in the U.S. Constitution. (S)

3183. Criminal Law and the Constitution  An examination of state and federal police powers and how they are regulated by the Constitution and statutes. (F, S, SU)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3193</td>
<td>Arkansas Government and Politics</td>
<td>Introduction to Arkansas government and politics, focusing on the institutions of state government (Governor, General Assembly, Courts), state politics (campaigns and elections, political parties, interest group activity), and selected policy issues facing state government in Arkansas. (S)</td>
</tr>
<tr>
<td>4113</td>
<td>American Legislative Process</td>
<td>Structure and organization of legislative bodies, with a detailed study of legislative processes. (S -odd)</td>
</tr>
<tr>
<td>4123</td>
<td>Women in Politics</td>
<td>The course will explore the role that women play in American politics and policy making, and examine the many different types of women actively reshaping the policy agenda through legislative priorities in state legislatures and Congress. Achieving this goal requires that we investigate how governmental (institutional) and nongovernmental (extra-institutional) forces have contributed to the presence and impact that women, men and questions of gender play in American politics. (S -even)</td>
</tr>
</tbody>
</table>

**Comparative Politics (POSC)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>3203</td>
<td>Introduction to Comparative Politics</td>
<td>Surveys the field of comparative politics, with case studies of selected countries. (F -odd)</td>
</tr>
<tr>
<td>3213</td>
<td>African Political Systems</td>
<td>The government and politics of primarily sub-Saharan Africa; involves study of the people as well as their political institutions. (F -even)</td>
</tr>
<tr>
<td>3223</td>
<td>American National Defense Policies</td>
<td>Key issues vital to U.S. defense, including strategic force levels; sea, air and land forces; limited war; low intensity conflict; and nuclear non-proliferation. (F -odd)</td>
</tr>
<tr>
<td>3223</td>
<td>European Political Systems</td>
<td>A comparative analysis of major European political systems in terms of their pressure groups, political parties, and policy formation processes. (D)</td>
</tr>
<tr>
<td>3233</td>
<td>Chinese Political System</td>
<td>The Chinese government, the Chinese Communist Party, socioeconomic change, and Chinese foreign policy. (F -odd)</td>
</tr>
<tr>
<td>4213</td>
<td>Politics of the Former Soviet Lands</td>
<td>Government and politics of Russia and her neighbors, including the transition from communism and issues of war and peace between the republics of the former Soviet Union. (S -even)</td>
</tr>
<tr>
<td>4213</td>
<td>International Organization</td>
<td>Development, structure, and politics of international organizations such as the United Nations. (F -odd)</td>
</tr>
<tr>
<td>4223</td>
<td>Middle Eastern Political Systems</td>
<td>Major Middle Eastern political systems, with concentration on their common characteristics and major differences. (S -odd)</td>
</tr>
</tbody>
</table>

**International Relations (POSC)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>1303</td>
<td>Introduction to Model United Nations</td>
<td>Preparation for and participation in model United Nations. (F, S)</td>
</tr>
<tr>
<td>3303</td>
<td>Introduction to International Politics</td>
<td>Various approaches to the study of international politics. (F -even)</td>
</tr>
<tr>
<td>3313</td>
<td>American Foreign Policy</td>
<td>Development, formation, goals, administration, and realities of American foreign policy in modern times, with emphasis on current issues. (S)</td>
</tr>
<tr>
<td>3323</td>
<td>American National Defense Policies</td>
<td>Key issues vital to U.S. defense, including strategic force levels; sea, air and land forces; limited war; low intensity conflict; and nuclear non-proliferation.</td>
</tr>
<tr>
<td>4313</td>
<td>International Organization</td>
<td>Development, structure, and politics of international organizations such as the United Nations. (F-odd)</td>
</tr>
</tbody>
</table>

**Political Theory (POSC)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>3413</td>
<td>Classical and Medieval Political Theory</td>
<td>Classical Greek and Christian forms of political theory. (F -odd)</td>
</tr>
<tr>
<td>3423</td>
<td>American Political Theory</td>
<td>An analytical study of American political theories from the pre-colonial era to the present and their impact upon our political institutions. (S -odd)</td>
</tr>
<tr>
<td>3433</td>
<td>Political Ideologies</td>
<td>Contemporary political ideas and movements, including liberalism, conservatism, anarchism, fascism, communism, and nationalism. (F -even)</td>
</tr>
<tr>
<td>4413</td>
<td>Modern Political Theory</td>
<td>Writings of modern political philosophers such as Machiavelli, Hobbes, and Rousseau. (S)</td>
</tr>
<tr>
<td>4453</td>
<td>Analysis of Contemporary Political Theory</td>
<td>An analytical and theoretical examination of one or more theoretical political issues of the 20th and 21st centuries. Topics of analysis may include democracy, justice, community, political ethics, multiculturalism, or the theories of a particular political philosopher or school of political philosophy. Content will vary.</td>
</tr>
</tbody>
</table>

**Public Administration (POSC)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3503</td>
<td>Principles of Public Administration</td>
<td>Survey of the field of public administration and its problems. (S)</td>
</tr>
<tr>
<td>3513</td>
<td>Public Budgeting Process</td>
<td>The public budgeting processes of the United States and of Arkansas; administrative and political problems connected with raising and expending public revenues. (S -even)</td>
</tr>
<tr>
<td>4503</td>
<td>Introduction to Public Policy Studies</td>
<td>Provides a framework for understanding the fundamentals of the policy making process. (F)</td>
</tr>
<tr>
<td>4523</td>
<td>Public Personnel Administration</td>
<td>Policies, methods, and techniques utilized in public personnel. (F)</td>
</tr>
<tr>
<td>4533</td>
<td>Environmental Law and Administration</td>
<td>Overview of current environmental law, its administration and enforcement.</td>
</tr>
</tbody>
</table>

**Political Methodology (POSC)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3003</td>
<td>Introduction to Political Analysis</td>
<td>Introduction to the discipline of political science, its subfields, and to the use of the social scientific method and logical inquiry. (F)</td>
</tr>
</tbody>
</table>
The College of Nursing & Health Professions was constituted with the beginning of the academic year 1982, and came about as a result of the inclusion of three programs which had been offered in other units of the university. The undergraduate programs of the college are baccalaureate degree curricula in nursing, clinical laboratory sciences, communication disorders, radiologic imaging specialist, radiation therapy, diagnostic sonography, nuclear medicine, and social work, and associate degree programs in clinical laboratory science, nursing, physical therapist assistant, and radiologic technology. Information on graduate programs in the college (communication disorders, nursing, health sciences, and physical therapy) can be found in the ASU Graduate Bulletin.

Accreditation and Registration
Both the associate degree and the baccalaureate degree programs in nursing are approved by the Arkansas State Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC) (61 Broadway, New York, NY 10006; telephone: (211) 363-5555, X153). Upon completion of these programs the student is eligible for the National Council of State Boards of Nursing Licensing Examination (NCLEX-RN), and after passing the examination, is licensed as a Registered Nurse by the state(s) to which application was made.

The Clinical Laboratory Scientist and Clinical Laboratory Technician programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr Avenue, Suite 670, Chicago, IL 60631, 773-714-8880. Graduates of these programs are eligible for the national certifying examinations in their specialty through the American Society of Clinical Pathologists or other appropriate agency.

The baccalaureate degree in Communication Disorders is a preprofessional degree designed to prepare students for graduate study in speech-language pathology. Both curriculum and practicum experiences have been designed to partially fulfill requirements for the Certificate of Clinical Competence issued by the Council on Academic Accreditation of the American Speech-Language Hearing Association.

Both the Master of Physical Therapy (MPT) and the Physical Therapist Assistant (PTA) programs are accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 N. Fairfax Street, Alexandria, VA 22314, 703-706-3245.

The Radiologic Technology and Radiation Therapy programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 900, Chicago, IL, 60606-2901. Graduates are eligible to sit for the national certifying examination of the American Registry of Radiologic Technologists. The Nuclear Medicine Program is accredited by the Joint Review Committee on Education in Nuclear Medicine Technology. The Diagnostic Medical Sonography Program is accredited by the Joint Review Committee for Education in Diagnostic Medical Sonography.


Most state and national board application forms ask if the applicant has ever been convicted of a crime. Certain crimes (e.g., controlled substance use or sale) may make the applicant ineligible for the examination. If a student has any reason to believe that he/she may be ineligible for the state or national board examinations, he/she should discuss this with the program director or the respective licensing agency.

Application Policies and Procedures
Admission to Arkansas State University does not automatically admit one to the programs offered by the College of Nursing and Health Professions. The college has a selective admissions policy due to professional requirements and limited clinical sites for placement of students. All remediation requirements must be completed prior to beginning the professional component of any Nursing or Health Professions program.
For a listing of the criteria used by admission committees in selecting students for the various programs, contact the appropriate department chair or program director (Nursing 972-3074; Clinical Laboratory Sciences 972-3073; Radiologic Sciences 972-3073; Physical Therapy 972-3591; Communication Disorders 972-3106; Social Work 972-3984). Courses in clinical laboratory sciences, physical therapist assistant, radiologic sciences, radiologic technology, and nursing (with the exception of NRS 2203, NRS 3353, NRS 3333, NRS 4393, NRS 3392 and NRS 3391), are open only to students admitted to the professional level of those respective programs. Some courses with an HP prefix are open to any student who meets the university admission requirements. Enrollment in certain 3000 and 4000 level CD courses requires admission to the undergraduate communication disorders program.

Students seeking admission to an ASU nursing program after withdrawing from or being dismissed from another nursing program must submit with their application a letter of good standing from each program attended. Students are ineligible for enrollment into the 4th/Final semester of the AASN program.

Deadline for Receiving Applications

Clinical Laboratory Sciences - Bachelor of Science: April 15 of the sophomore year for the junior-senior clinical years. Prior to this time the student is enrolled in the clinical laboratory science program as a pre-clinical laboratory scientist major.

Clinical Laboratory Sciences - Associate in Applied Science: April 15 for official admission to the Fall semester. Prior to this time, the student is enrolled in the clinical laboratory science program as a pre-clinical laboratory technician major.

Communication Disorders - Bachelor of Science: No deadlines. Admission to the undergraduate communication disorders program requires the deadlines listed below. All transcripts and documents submitted in support of an application become the property of the university and cannot be returned to the applicant or forwarded to another school or individual.

Associate in Applied Science in Nursing: June 15 for admission to the Fall semester for LPN to RN students at campus site and distance-learning sites; October 15 and June 15 for transfer/readmission for subsequent semester. These deadlines pertain to all distance learning sites except Mountain Home and West Memphis. Deadline for traditional AASN program at the Mountain Home campus is October 15. Applicants must complete required prerequisite support courses with a cumulative GPA of 2.0 or better. A "C" or better must be earned in required math and science courses. Applicants for admission will be ranked based upon pre-requisites.

Bachelor of Science in Nursing: June 15 for Fall enrollment in sophomore nursing courses (November 15 and June 15 for LPN and transfer/extension admissions for subsequent semester. Registered nurses must apply during the semester enrolled in NRS 3312. Applicants must complete required prerequisite support courses with a cumulative GPA of 2.5 or better. A "C" or better must be earned in required math and science courses. Due to space availability, applicants for admission will be ranked based upon cumulative GPA OR the last 30 semester hours’ calculated on entire semester’s work), depending on which average is the highest.

Students seeking readmission, advance standing or transfer credit for nursing courses must be aware that nursing knowledge changes rapidly. Therefore, if three or more years have elapsed since the previous education experience, students may be required to meet additional requirements before progression in a specific nursing program.

ASU does offer the Master of Physical Therapy degree (MPT). Deadlines for application can be obtained by contacting the program office at (870) 972-3591.

Physical Therapist Assistant - Associate in Applied Science: Students are encouraged to declare as pre-Physical Therapist Assistant (pre-PTA) majors. Students may apply to the PTA program during the spring semester of the year in which they plan to start the program. Application deadline is April 1 of each year.

Radiologic Technology - Associate in Applied Science: April 1 for admission to the first summer session. Students are accepted based on 1) cumulative GPA (a 2.5 GPA is required); 2) Prerequisite course GPA; 3) Essay scores; 4) reference scores; 5) interview scores. NOTE: Students completing prerequisite work at ASU-Jonesboro receive extra points toward admission score. Those students wishing to pursue the associate degree only should check the appropriate box on the application.

Imaging Specialist - Bachelor of Science in Radiologic Sciences: Clinical Specialties are offered in Mammography, Computed tomography, Magnetic Resonance Imaging, and Cardiovascular-Interventional Technology. Admission is granted at the beginning of each semester. Only applicants who have 1) completed the associate degree in Radiologic Technology from a Joint Review Committee on Education in Radiologic Technology (JRCERT) approved program OR 2) graduated from a JRCERT approved school of Radiologic Technology AND passed the national certification boards through the American Registry of Radiologic Technologists will be considered.

Radiation Therapy - Bachelor of Science in Radiologic Sciences: April 1 for Fall enrollment. Students are accepted based on 1) cumulative GPA 2) selected course grades 3) interview 4) number of hours completed toward degree. All three are converted to a point system. Students wishing to apply to the Radiation Therapy program must have completed at least one year of an accredited school of Radiologic Technology or have graduated. ASU graduates receive extra points when calculating total scores.

Diagnostic Medical Sonography - Bachelor of Science in Radiologic Sciences: April 1 for Summer I enrollment. Students are accepted based on 1) cumulative grade point average 2) selected course grades 3) orientation session 4) personal essay completed at or prior to the orientation session. Preference given to those who are near successful completion of the General Education Curriculum and the Radiologic Sciences core courses. To be eligible to apply students must 1) complete an accredited school of radiologic technology or 2) complete the requisite courses outlined in the Bulletin.

Nuclear Medicine Technology - Bachelor of Science in Radiologic Sciences: April 1 for Fall admission. Students are accepted based on 1) cumulative GPA 2) orientation session 3) interview. Students should see the Director of Radiologic Sciences Programs for further details.

Social Work — Bachelor of Social Work: Students must be admitted to the program before they will be allowed to take SW 4273 Field I. Students must have a minimum of 45 hours with a GPA of at least 2.5 overall. Generally, students will be admitted during the second semester of their sophomore year. Consideration for admission to the program will be in the spring semester. Specific due dates for materials will be posted on the notice board outside the departmental office. Students should follow the criteria in the Social Work Student Handbook available on the web.

Students will be notified in writing of the decision of the admissions committee. It is the responsibility of each student to see that all required documents have been received by the appropriate program in the College of Nursing and Health Professions by the deadline date. No student will be considered for admission until the file is complete and all requirements are met.

Disclaimer

Given the rapid changes in health care and technology, the programs in the College of Nursing and Health Professions reserve the right and responsibility to revise the curriculum to anticipate societal needs for health care. Therefore, students are strongly advised to contact the program directors for current requirements.
Students admitted to any College of Nursing and Health Professions program must meet the program's professional course requirements stated in the ASU Undergraduate Bulletin in effect the academic year of their admission to the professional program.

Vaccination and Skin Testing

Students ADMITTED to any program in the College of Nursing and Health Professions must present the following immunization and test documentation:

1. Rubella and rubeola (Arkansas statute).
2. Mumps and varicella vaccination or titer (clinical affiliate (hospital) requirements when working with infants and children).
3. If no hepatitis immunization or titer, then must begin the Hepatitis B vaccine series prior to enrolling in a clinical practicum class. All students except C.D. must have completed the Hepatitis B series before enrolling in the first practicum course of their program.
4. TB skin test each year that the student is enrolled in a clinical practicum. If skin test is positive, documentation of treatment status must be submitted.
5. Cardiopulmonary resuscitation (CPR) certification is required before taking any practicum courses. Certification status must be maintained and documentation submitted to the appropriate department throughout enrollment in any program.

Radiologic Sciences Film Badge Fees

Students accepted into the Radiologic Technology program will be assessed an annual charge of $120.00 per year ($240 total) for radiologic film badges. Payment is due to the office of the program director prior to Clinical Practicum I and III. These badges will be used during the six clinical practicums.

Students accepted into the Radiation Therapy or Imaging Specialist programs will be assessed a one-time charge of $120. Payment is due in the Program Director's office prior to the first clinical practicum.

Malpractice Insurance

Before being assigned to clinical practicums all students in Health Professions' programs are required to purchase malpractice/liability coverage. Assistance in arranging for coverage will be made through program directors.

Student Employment

Programs in the College of Nursing and Health Professions require an unusual amount of the students' time, and students should pay particular attention to the section on "Student Academic Load" in the Academic Policies and Regulations section in this Bulletin. Outside employment may need to be adjusted to course and clinical requirements scheduling.

Transportation

Students are required to provide their own transportation when assigned to all practica, including field experience in surrounding counties or other states. When determining educational costs, consideration should be given to this additional expense.

Probation, Retention, and Readmission

All programs in the College of Nursing and Health Professions have policies governing probation, retention, and readmission.

Probation

When the cumulative, semester, or session grade point average falls below 2.00, the student in physical therapist assistant, radiologic technology, associate degree nursing, or baccalaureate degree nursing will be placed on probation. At the end of the next semester or session of enrollment the cumulative grade point average must be at least 2.00 for the student to remain in his/her respective program.

Retention

A student may not continue in the

A. clinical laboratory sciences programs if a grade lower than "C" is received in any CLS course, or the student fails to maintain an overall GPA of 2.00 in his/her respective program.
B. radiologic technology program if a grade lower than "C" is received in Anatomy or in any RT course.
C. radiologic sciences program if a grade of lower than a "C" is received in any RS course.
D. associate degree nursing program if a grade lower than "C" is received in a required nursing course, if the student withdraws from a nursing course to avoid a failing grade, or if the cumulative grade point average is less than 2.00 in the required sciences upon entry to the fourth semester nursing courses.
E. baccalaureate degree nursing program if a grade lower than "C" is received in a required nursing course, if the student withdraws from a nursing course to avoid a failing grade, or if the grade is less than 2.00 in the required laboratory sciences upon entry to the sophomore and junior level nursing courses.
F. physical therapist assistant program if a grade lower than "C" is received in any PTA course.
G. social work if a grade lower than "C" is received in any of the listed major courses. Students must maintain a 2.5 GPA to remain in the program.

Readmission

If students are not allowed to continue in a program because of the above stipulations, readmission will be considered only after the student submits a formal application for readmission to the appropriate department or program.

A. Students are not eligible for readmission if

1. the cumulative grade point average is lower than 2.00.
2. the student has received a final grade lower than "C" twice in the same course, or has received a grade lower than "C" in professional courses in two separate semesters in the same program. [In Nursing, withdrawal from a nursing course to avoid a failing grade is considered the same as receiving a grade lower than "C."]
3. the student has received a final grade lower than "C" in two separate nursing courses in the Department of Nursing.

B. Procedures for application for readmission

1. A student must submit to

a. the CLS programs a completed application form obtainable from the program director's office by the deadline date for applications as noted under "Application Procedures."
b. the RT program a completed application form obtainable from the program director's office sixty (60) days prior to the first day of registration of the semester for which readmission is sought.
c. any RS program a completed application form obtainable from the departmental office sixty (60) days prior to the first day of registration of the semester for which readmission is sought.
d. the Department of Nursing a completed Nursing application packet by the deadline date for applications as noted under "Application Procedures."
e. the BSW program students must repeat the application process during the next cycle.
2. All applications for readmission must include a current and complete official transcript.
3. Readmission to any program will be dependent upon space available, regardless of student qualifications.

Department of Health Professions

Professors McDaniel, Neeley; Associate Professors Barredo, Farris, Roehrig, Rollins, White, Williams, Winters; Assistant Professors Aldridge, Baggs, Burnett, Caldwell, Collins, Drake, Pierce, Hubbard, Lovelace, Pait, Payne, Watrous; Instructors DeClerk, Keith, Thomas

GENERAL PROGRAM AND ADMISSIONS INFORMATION

Programs administered by the Department of Health Professions include: Clinical Laboratory Sciences, Communication Disorders, Physical Therapist Assistant, Physical Therapy, Diagnostic Medical Sonography, Radiologic Clinical Specialist (MR, CT, Mammo, CIT), Radiologic Sciences, Radiologic Technology and Radiation Therapy. Because of the wide diversity of career choices available in the health professions, the program directors may be contacted for information about other career options and their pre-professional curricula.

CLINICAL LABORATORY SCIENCES: The field of clinical laboratory science offers opportunities for service to those students who are interested in the biological and chemical sciences. Clinical laboratory scientists are academically prepared, skilled laboratory workers who perform a variety of analyses which aid the physician in the diagnosis and treatment of patients. The procedures which they utilize may disclose changes which might not be detected in other ways.

The Associate in Applied Science-Clinical Laboratory Technician degree is a two-year program which permits students to achieve the status of clinical laboratory technician (CLT). The program is carefully articulated with the baccalaureate program in clinical laboratory sciences.

The BS-Clinical Laboratory Scientist degree is a 4-year program which provides an understanding of the theoretical and scientific fundamentals underlying the procedures involved, which include a broad based knowledge in the principles of human biology, chemistry, analytical instrumentation, and a familiarity with the educational and managerial aspects associated with one who occupies a professional role in a wide variety of settings.

Students applying for admission to the Clinical Laboratory Sciences programs are expected to present appropriate GPAs. Students seeking admission to the AAS degree program must have a minimum GPA of 2.0 or better. Students seeking admission to the BS degree program must have a minimum GPA of 2.5 or better.

COMMUNICATION DISORDERS: The Bachelor of Science degree in Communication Disorders is a preprofessional degree program which provides students with academic and practical preparation considered essential for success in the Communication Disorders graduate program. The undergraduate curriculum offers students a broad base of preparation in general education requirements, the sciences associated with communication and its disorders, anatomy and physiology, and a number of basic methods courses associated with the identification and treatment of a variety of communication disorders. Admission to the undergraduate communication disorders program requires the following: 1. A 3.1 or better GPA for: a. PSY 2013, b. ZOOL 2003 & 2001, c. CD 2653, d. CD 2104, e. CD 2203, f. GSP 1024, g. MATH 103 or better in: a. ENG 1003, b. ENG 1013, c. SCOM 1003, d. MATH 1023, 3. A 2.75 or better overall GPA, 4. Ten (10) clock-hours of documented, prescribed observation.

PHYSICAL THERAPY ASSISTANT: The PTA assists the PT in patient evaluation and assessment activities, implements treatment programs according to a plan of care, trains patients in exercises and activities of daily living, conducts treatments using special equipment, administers modalities and other treatment procedures, and reports to the PT on patients’ responses to treatment.

RADIOLOGIC TECHNOLOGY: The program in radiologic technology includes both classroom instruction and experiences in the clinical setting of the health care institutions in the area. This provides students with opportunities for direct patient care involving those who are sick and injured, as well as those for whom radiologic diagnosis is indicated.

The radiographer is a skilled person, qualified by technological education to provide patient services using imaging modalities as directed by physicians qualified to order and/or perform radiologic procedures. Still others are employed as technical advisers and representatives for radiologic equipment and supply manufacturers.

RADIOLOGIC SCIENCES: The Radiologic Sciences Program offers the radiologic professional the baccalaureate degree in 4 tracks (or options). These options are 1) Imaging Specialist, 2) Radiation Therapy, 3) Diagnostic Medical Sonography and 4) Nuclear Medicine Technology. The Imaging Specialist Track is designed to provide the student with the skills necessary to become an advanced level technologist in one or more of the following modalities: CT, MRI, Vascular Imaging Technology, or Mammography. Upon completion of the baccalaureate degree students are prepared to sit for the advanced registries in one or more of these areas. The Radiation Therapy Track provides the student with the skills necessary to become a professional radiation therapist. The Diagnostic Medical Sonography Track provides the student with the skills necessary to become a professional medical sonographer. The Nuclear Medicine Technology Track provides the student with the skills necessary to become a professional nuclear medicine technologist.

Major in Clinical Laboratory Sciences
Associate in Applied Science

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1003 and 1013, Composition I and II</td>
<td></td>
</tr>
<tr>
<td>CHEM 1011, Laboratory for General Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1013, General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023, College Algebra (or higher level math)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR 2773, U.S. History To or Since 1876</td>
<td>3</td>
</tr>
<tr>
<td>PSYC2103, Introduction to United States Government</td>
<td>3</td>
</tr>
<tr>
<td>CS 1043, Introduction to Computers, OR</td>
<td></td>
</tr>
<tr>
<td>CRT 1503, Microcomputer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

* If the student has not had chemistry previously, then CHEM 1003, Introduction to Chemistry, must be completed first.

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 1201, Lab for Human Physiology</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 1023, Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2101, Laboratory for Microbiology for Nursing and Allied Health</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2103, Microbiology for Nursing and Allied Health</td>
<td>1</td>
</tr>
<tr>
<td>CLS 1511/1512, Basic Principles and Laboratory for Basic Principles</td>
<td>3</td>
</tr>
<tr>
<td>CLS 1521/1521, Body Fluids and Laboratory for Body Fluids</td>
<td>2</td>
</tr>
<tr>
<td>CLS 2512/2511, Medical Parasitology and Laboratory for Medical Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>CLS 2523/2521, Hematology and Laboratory for Hematology</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2573/2571, Clinical Immunology and Serology and Laboratory for Clinical Immunology and Serology</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2583/2581, Medical Microbiology I and Laboratory for Microbiology I</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2563/2561, Basic Blood Banking and Laboratory for Basic Blood Banking</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2543/2541, Clinical Chemistry I and Laboratory for Clinical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2551, Hematology for the Clinical Lab Technician</td>
<td>1</td>
</tr>
<tr>
<td>CLS 3514, Clinical Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3524, Clinical Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3514, Clinical Practicum III</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3524, Clinical Practicum IV</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 72

Clinical Laboratory Sciences
Associate in Applied Science

Following is one suggested sequence in which requirements for the Associate of Applied Science degree in Clinical Laboratory Sciences may be completed. (Refer to index for developmental courses required for students with lower ACT scores.) Students should consult with their advisor for a plan that best meets individual needs.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Major Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall (15 hrs.)</strong></td>
<td>CHEM 1013</td>
</tr>
<tr>
<td><strong>Spring (13 hrs.)</strong></td>
<td>CHEM 1013</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session I (6 hrs.)</th>
<th>Session II (3 hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 2213</td>
<td>ENG 3013, ENG 3043 or ENG 4703</td>
</tr>
<tr>
<td>275-277</td>
<td>CHEM 3111/3113</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session I (5 hrs.)</th>
<th>Session II (5 hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 4174, CLS 4184, CLS 4194 or CLS 4204</td>
<td>CLS 4174, CLS 4184, CLS 4194 or CLS 4204</td>
</tr>
<tr>
<td>275-277</td>
<td>CHEM 3111/3113</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session I (5 hrs.)</th>
<th>Session II (5 hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 4174, CLS 4184, CLS 4194 or CLS 4204</td>
<td>CLS 4174, CLS 4184, CLS 4194 or CLS 4204</td>
</tr>
<tr>
<td>275-277</td>
<td>CHEM 3111/3113</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Session II (5 hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 4174, CLS 4184, CLS 4194 or CLS 4204</td>
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</tr>
<tr>
<td>275-277</td>
<td>CHEM 3111/3113</td>
</tr>
</tbody>
</table>

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<tr>
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<th>Session II (5 hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 4174, CLS 4184, CLS 4194 or CLS 4204</td>
<td>CLS 4174, CLS 4184, CLS 4194 or CLS 4204</td>
</tr>
<tr>
<td>275-277</td>
<td>CHEM 3111/3113</td>
</tr>
</tbody>
</table>
**Major in Communication Disorders**

**Bachelor of Science**

(The master’s degree is required for initial licensure.)

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>46-49</td>
<td></td>
</tr>
</tbody>
</table>

**Specific General Education Requirement:**

The appropriate General Education Requirements are reflected in the options shown below in suggested course sequencing.

**Major Requirements:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>60-61</td>
<td></td>
</tr>
</tbody>
</table>

- These courses must be completed in conjunction with PSY 2013 and GSP 1204 with a GPA of 3.1 or better. This GPA requirement is one prerequisite for admission into the undergraduate program in Communication Disorders. Refer to index for a complete list of admission requirements.
- **Prerequisite:** Must be admitted into the undergraduate Communication Disorders Program.

**Preprofessional Requirements:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Electives:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>124</td>
<td></td>
</tr>
</tbody>
</table>

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**Communication Disorders**

**Bachelor of Science**

Following is one suggested sequence in which requirements for the Bachelor of Science degree in Communication Disorders may be completed. (Refer to index for developmental courses required for students with lower ACT scores.) Students should consult with their adviser for a plan that best meets individual needs.

**REQUIREMENTS:** Minimum Overall GPA of 2.75

**SPEECH AND HEARING SCREENING**

"C" or better required in ENG 1003, ENG 1013, SCOM 1203, MATH 1023

"Earned GPA of 3.1 for the six "C" classes"

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>CD 3003 Speech and Hearing Science</td>
<td>CD 3803 Service Delivery in CD</td>
</tr>
<tr>
<td>CD 3003 Normal Language Development</td>
<td>CD 4003 Introduction to Psychology</td>
</tr>
<tr>
<td>CD 3003 Audiology</td>
<td>CD 4003 Introduction to Psychology</td>
</tr>
<tr>
<td>ELSE 4003 Behavior Intervention &amp; Consultation</td>
<td>CD 4003 Introduction to Psychology</td>
</tr>
<tr>
<td>CD 4505 Speech, Language, and Hearing</td>
<td>CD 4505 Speech, Language, and Hearing</td>
</tr>
<tr>
<td>CD 4505 Speech, Language, and Hearing</td>
<td>CD 4505 Speech, Language, and Hearing</td>
</tr>
<tr>
<td>CD 4505 Speech, Language, and Hearing</td>
<td>CD 4505 Speech, Language, and Hearing</td>
</tr>
<tr>
<td>CD 4505 Speech, Language, and Hearing</td>
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</tr>
<tr>
<td>CD 4505 Speech, Language, and Hearing</td>
<td>CD 4505 Speech, Language, and Hearing</td>
</tr>
</tbody>
</table>

**Preprofessional Requirements:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Electives:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total**

280
If you are considering attending Arkansas State University and have the goal of studying Physical Therapy, the following information will be most important to you. The members of the faculty of the PT Program are pleased that you have considered our program. It is important for you to understand some things about Physical Therapy education. The information below should make the process of obtaining a degree in Physical Therapy more understandable.

**Major in Physical Therapist Assistant**

**Associate in Applied Science**

<table>
<thead>
<tr>
<th>General Education Requirements*</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1003 and 1013, Composition I and II</td>
<td>6</td>
</tr>
<tr>
<td>HIST 2763 or 2773, United States History To or Since 1876</td>
<td>6</td>
</tr>
<tr>
<td>PSYC 2103, Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023, College Algebra or higher level math course</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2103, Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CJ 1043, Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2003 and 2001, Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
</tbody>
</table>

* Students who have not had high school biology or chemistry must complete BIOL 1003 and 1001, Biological Science and Biological Science Laboratory, and CHEM 1003, Introduction to Chemistry, in addition to the above.

<table>
<thead>
<tr>
<th>Major Requirements</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTA 2116, Patient Care Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td>PTA 2126, Movement Science</td>
<td>6</td>
</tr>
<tr>
<td>PTA 2213, Musculoskeletal PT</td>
<td>3</td>
</tr>
<tr>
<td>PTA 2223, Physical Agents and Massage</td>
<td>3</td>
</tr>
<tr>
<td>PTA 2233, Neuromuscular PT I</td>
<td>3</td>
</tr>
<tr>
<td>PTA 2243, Cardiopulmonary PT</td>
<td>3</td>
</tr>
<tr>
<td>PTA 2252, Clinical Education I</td>
<td>2</td>
</tr>
</tbody>
</table>

**Required Support Courses:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2013, Introduction to Psychology</td>
</tr>
<tr>
<td>PHYS 2113, Survey of Physics for Health Professions</td>
</tr>
<tr>
<td>ZOOL 2013 and 2011, Human Anatomy &amp; Physiology I and II</td>
</tr>
<tr>
<td>PH 2003, Introduction to Physical Therapy</td>
</tr>
<tr>
<td>HP 2013, Medical Terminology</td>
</tr>
</tbody>
</table>

| Total | 72 |

**Physical Therapist Assistant**

**Associate in Applied Science**

Following is one suggested sequence in which requirements for the Associate in Applied Science degree in Physical Therapist Assistant may be completed. Students should consult with their adviser for a plan that best meets individual needs. (See Application Policies and Procedures).

**Freshman Year**

<table>
<thead>
<tr>
<th>Summer (either session)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1023, College Algebra</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1003, Composition I</td>
</tr>
<tr>
<td>PHYS 2113, Survey of Physics for Health Professions</td>
</tr>
<tr>
<td>PSY 2013, Introduction to Psychology</td>
</tr>
<tr>
<td>ZOOL 2003, Human Anatomy and Physiology I</td>
</tr>
<tr>
<td>ZOOL 2001, Human Anatomy and Physiology II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1013, Composition II</td>
</tr>
<tr>
<td>POSC 2103, American Government &amp; HIST 2763 or 2773, U.S. History</td>
</tr>
<tr>
<td>CS 1043, Introduction to Computers</td>
</tr>
<tr>
<td>CIT 1503, Microcomputer Applications</td>
</tr>
<tr>
<td>ZOOL 2011, Human Anatomy and Physiology II</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>10-Week Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTA 2116, Patient Care Fundamentals</td>
</tr>
<tr>
<td>PTA 2126, Movement Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTA 2213, Musculoskeletal PT</td>
</tr>
<tr>
<td>PTA 2223, Physical Agents &amp; Massage</td>
</tr>
<tr>
<td>PTA 2233, Neuromuscular PT I</td>
</tr>
<tr>
<td>PTA 2243, Cardiopulmonary PT</td>
</tr>
<tr>
<td>PTA 2252, Clinical Education I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTA 2303, Neuromuscular PT II</td>
</tr>
<tr>
<td>PTA 2326, Seminar</td>
</tr>
<tr>
<td>PTA 2433, Clinical Education II</td>
</tr>
<tr>
<td>PTA 2434, Clinical Education III</td>
</tr>
</tbody>
</table>

**Graduate Program in Physical Therapy (MPT)**

**Arkansas State University**

http://pt.astate.edu

(870) 972-3591
Physical therapy education is delivered at the graduate level. This is not unique to ASU. All accredited Physical Therapy education programs deliver the entry-level degree at the post-baccalaureate level. This is the nature of PT education.

There is no undergraduate Physical Therapy degree. Yes, there is an Associate Degree in Physical Therapist Assisting at ASU, but this is not the PT degree. If your goal is to become a Physical Therapist, you will need to first complete a four-year degree (bachelor’s degree). The Physical Therapy Program does not require any particular major or area of study. We view all undergraduate degrees as being of equal value and potentially appropriate preparation for PT School. We do, however, require certain prerequisite courses (primarily basic math and science courses) to prepare you for the professional courses you will be taking once admitted to graduate school and the PT Program. You should meet with one of the faculty of the PT Program to discuss these courses and how they can fit into your chosen field of undergraduate study.

As you near the completion of your undergraduate degree, you will want to make application to the ASU Graduate School and to the PT Program. The PT faculty will assist you with this process. During your undergraduate study you will want to develop a relationship with the PT faculty so that you remain abreast of all steps and processes involved in getting prepared for and applying to the PT program.

There are many issues and details that will need to be addressed as you prepare for PT School. That is why we are committed to helping you. For now, you should simply know that ASU is “the” place to get your education to become a PT. If you are reading this you have already begun the process. You may already have a field of study in mind for your undergraduate degree. That is great. If you are unsure about the undergraduate study, come by and visit. We can make some suggestions.

Visit the PT Program at http://pt.astate.edu. Call us at (870) 972-3591. We are looking forward to helping you make your time at ASU enjoyable and rewarding.

Students should be aware of the Master of Physical Therapy (MPT) Program offered at ASU. See Graduate Bulletin or contact the PT program office for details at (870) 972-3591.

Radiologic Technology

The Radiologic Sciences Programs are administered by the Department of Radiologic Sciences in the College of Nursing and Health Professions. The degrees are designed to produce associate and baccalaureate degree Radiologic Science graduates who are clinically competent advanced level radiologic sciences practitioners. Graduates are expected to achieve multi-competency credentials in the specialties of study following completion of the degree.

The AAS in Radiologic Technology degree is offered in radiography.

The AAS degree requires the following total credit hours:

| General Education | 19 |
| Physics prerequisite (PHYS 2133) | 3 |
| Radiologic Technology | 47 |
| Required support course (PSY 2013) | 3 |
| **TOTAL** | **72** |

The BS in Radiologic Sciences degree is offered in 4 emphasis areas:

1. Imaging Specialist
   - which requires two of the following specialties:
     - Cardiovascular Interventional Technology
     - Mammography and Bone Densitometry
     - Computed Tomography
     - Magnetic Resonance Imaging

2. Radiation Therapy

3. Diagnostic Medical Sonography

4. Nuclear Medicine Technology

The BS degree requires the following total credit hours:

| General Education | 46-49 |
| AAS or equivalent | 41 |
| Radiologic Sciences Core | 11 |
| Major/Minor | 26-38 |
| **TOTAL** | **130-142** |

Admission Requirements for AAS Degree in Radiologic Technology Major

The Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology. The program exists to produce competent, entry-level radiographers for the practice of diagnostic imaging. Through didactic courses, laboratory participation, and clinical experiences, students acquire professional, ethical, and technical skills required of radiologic practitioners.

Admittance to the Radiologic Technology Program is accessed through two distinct methods. Students must declare intent to pursue the Associate of Applied Science degree or intent to pursue the Bachelor of Science in Radiologic Sciences. Students who declare the AAS degree and later wish to pursue the BSRS degree must make separate application upon completion of the AAS degree. (See the Health Professional Advisor or the Director of Radiologic Sciences Programs for complete details.)

Students accepted into the Radiologic Technology program will complete their professional education in two areas: the class room and the clinical setting. Class room work will occur on the ASU-Jonesboro campus, while clinical education will occur in area hospitals and clinics. The professional portion of the program is offered as a full-time course. Upon graduation, students are eligible for the national credentialing American Registry of Radiologic Technologists examination in radiography.

Applicants to the Radiologic Technology Program are selected by the Admissions Committee using the following criteria:

1. Cumulative grade point average
2. Support course GPA (see application package)
3. Essay Score
4. Reference evaluations

Each of the 4 categories listed is translated to a scaled system of points. Once scaled, students are ranked accordingly. The top 60 will be asked for an interview. Note: Students completing support course work on the ASU-Jonesboro campus will be awarded 5 points toward the final score.

AAS Degree Radiologic Technology Emphasis

The following course is required prior to or following admission to the professional program:

| PHYS 2133, Survey of Physics for the Health Professions | 3 |

The following courses are required following admission to the professional program:

<table>
<thead>
<tr>
<th>1st Summer II</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT 1103, Introduction to Radiologic Technology</td>
</tr>
<tr>
<td>RT 1111, Basic Radiologic Procedures</td>
</tr>
<tr>
<td>RT 1121, Basic Radiologic Procedures Laboratory</td>
</tr>
</tbody>
</table>

Visit the PT Program at http://pt.astate.edu. Call us at (870) 972-3591. We are looking forward to helping you make your time at ASU enjoyable and rewarding.
when calculating total scores.

General Education Curriculum and the Radiologic Sciences core courses

Admission Requirements for BSRS Degree Radiation Therapy Emphasis

The Radiation Therapy program is accredited by the Joint Review Committee on Education in Radiologic Technology. This major is designed to provide the student with the skills necessary to become a radiation therapist. To complete the major in this area, students must complete the 41 hours of the program. No minor is required. Upon completion of the baccalaureate degree students are prepared to sit the American Registry in Radiation Therapy (ARRT) examinations in radiation therapy and dosimetry.

Applicants to the Radiation Therapy Program are selected by the Admissions Committee using the following criteria:

(1) Cumulative grade point average
(2) Selected course grade
(3) Interview

The above criteria are converted to a point system and at least one course in the Radiation Therapy program.

Credit for Current Professional Certification

Students holding current ARRT Advanced Level Certification in Cardiovascular-Interventional Technology, Mammography, Computed Tomography, Magnetic Resonance Imaging, or Quality Management, ARRT registration in Radiation Therapy or Nuclear Medicine, NMTCB registration in Nuclear Medicine, or ARDMS registration in Diagnostic Medical Sonography may request credit for work experience, independent study options, and waiver of clinical education coursework in their area of expertise. These requests will be evaluated on an individual basis but will require completion of at least one course in the specialty from ASU in order to complete the requirements for a minor toward the BSRS degree and at least two courses in the specialty from ASU to complete the requirements for a major toward the BSRS degree. In addition, students must complete all general education requirements, Radiologic Sciences Core requirements, and meet all residency requirements of the university.
Credit for Work Experience

Technologists who have successfully passed an appropriate national professional examination and have worked 1,000 hours in that specialty over the past two years are eligible to receive credit for work experience. Individuals should contact their RS advisor for further information.

The specific courses required for each major and minor are:

General Education Requirements

Refer to index for General Education Curriculum for Baccalaureate Degrees

Sem. Hrs. 46-49

Radiologic Sciences Core (14 hours)

Sem. Hrs. 9 hours

RS 3133, Sectional Anatomy .......................................................... 1
RS 3142, Advanced Imaging and Therapy I ...................................... 2
RS 4112, Radiologic Research Analysis .......................................... 2
RS 4862, Advanced Radiologic Pathology I .................................... 2

CLS 4102, Special Problems in Clinical Lab Science ...................... 3
RS 4343, Radiologic Administrative Concepts OR RS 4344, Radiologic Education Concepts 3

Imaging Specialist Emphasis (27-31 hours)

Sem. Hrs. 27-31 hours

RS 3122, Legal and Regulatory Environment of Radiology ............. 2
RS 3152, Advanced Imaging and Therapy II .................................. 2
RS 3811, Radiologic Quality Management Administration .......... 1
RS 4862, Advanced Radiologic Pathophysiology II ....................... 2

Select two (2) of the following specialties:

Cardiovascular Interventional Technology (8 hours)

RS 4423, Cardiovascular Interventional Procedures and Instrumentation .................................................. 3
RS 4442, Cardiac Physiology and Procedures ................................ 2
RS 4451, Cardiovascular Intervventional Clinical Education I ...... 1
RS 4462, Cardiovascular Intervventional Clinical Education II ...... 1

Mammography and Bone Densitometry (7 hours)

RS 4532, Mammography Procedures & Instrumentation .............. 2
RS 4541, Mammography Clinical Education I ............................. 1
RS 4552, Mammography Clinical Education II ............................ 2

Computed Tomography (7 hours)

RS 4632, Computed Tomography Instrumentation ....................... 2
RS 4633, Computed Tomography Procedures ............................. 2
RS 4641, Computed Tomography Clinical Education I ............... 1
RS 4652, Computed Tomography Clinical Education II .............. 2

Magnetic Resonance Imaging (9 hours)

RS 4713, Magnetic Resonance Imaging Physics and Instrumentation .... 3
RS 4733, Magnetic Resonance Imaging Procedures ..................... 3
RS 4751, Magnetic Resonance Imaging Clinical Education I ....... 2
RS 4762, Magnetic Resonance Imaging Clinical Education II ...... 2

Radiation Therapy Emphasis (41 hours)

Sem. Hrs. 41 hours

Fall

RST 4203, Introduction to Radiation Therapy and Patient Care .......... 3
RST 4214, Radiation Therapy Principles and Practice I ................. 4
RST 4313, Radiation Physics I ...................................................... 3
RST 4513, Radiation Therapy Clinical Education I ....................... 3
HP 4453, Healthcare Administration or RS 4343, Radiologic Administrative Concepts 3

Spring

RST 4204, Radiation Therapy Principles and Practice II ................ 4
RST 4333, Applied Radiation Biology ........................................... 3
RST 4334, Radiation Physics II .................................................... 3
RST 4623, Radiation Therapy Clinical Education II ..................... 3

Summer

RST 4343, Radiation Therapy Principles and Practice III ............. 4
RST 4413, Radiation Protection, Safety, and Quality Management .... 3
RST 4534, Radiation Therapy Clinical Treatment Planning ........... 3
RST 4533, Radiation Therapy Clinical Education III .................... 3

Diagnostic Medical Sonography Emphasis (37 hours)

Sem. Hrs. 37 hours

1st Spring Semester

RSU 4102, Introduction to Ultrasound ........................................... 2
RSU 4213, Ultrasound Physics and Instrumentation I .................... 3
RSU 4313, Abdominal Sonography I ............................................ 3

RSU 4223, Ultrasound Clinical Education II ................................ 3
1st Summer Semester

RSU 4223, Ultrasound Clinical Education II ................................ 3

2nd Fall Semester

HP 3003, General Gross Anatomy .............................................. 3
RSU 4411, Ultrasound Image Analysis I ....................................... 3
RSU 4533, Ultrasound Clinical Education III ............................. 3
RSU 4613, Ob-Gyn Sonography .................................................. 3
RSU 4623, Ob-Gyn Sonography Lab ............................................ 3

2nd Summer Semester

RSU 4532, Ultrasound Clinical Education V ............................. 2

Nuclear Medicine Technology Emphasis (46 hours)

Sem. Hrs. 46 hours

Radiologic Sciences Support Courses

RS 3122, Legal and Regulatory Environment of Radiology ........ 2
RS 3811, Radiologic Quality Management Administration ........ 1
RS 4862, Advanced Radiologic Pathophysiology II .................... 2

Fall

RSN 4313, Nuclear Medicine Procedures I ................................ 3
RSN 4313, Nuclear Medicine Physics and Instrumentation ......... 3
RSN 4523, Nuclear Medicine Clinical Education I ...................... 3
RS 4343, Radiologic Administrative Concepts 3

Spring

RSN 4323, Nuclear Medicine Procedures II ............................... 3
RSN 4413, Nuclear Medicine Pharmacy ..................................... 3
RSN 4523, Nuclear Medicine Clinical Education II .................. 3

Summer

RSN 4535, Nuclear Medicine Clinical Education III .................... 5

Department of Nursing

Professor Elizabeth Stokes, Interim Chair; Professors Skorga, Young; Associate Professors Arangie; Assistant Professors Baker, Blue, Campbell, Drake (Ozarka), Gilbert-Palmer, Hall, Hunt (Mountain Home), Isaacson, McDougall, McLarry (ASU-Mountain Home), R. Miller, Nix, Owens, Persell, Phiwer, Shafer (West Memphis), Siford, Smith (ASU-Beebe), Stacey, Troxel, Walden, Wiggins, Wike (Mountain Home), White, Wimberley

The primary mission of the Department of Nursing is to prepare students for beginning and advanced practice as registered nurses. Arkansas State University nursing programs are committed to quality education and to meeting the unique needs of northern and eastern Arkansas and the surrounding area. Research and scholarly activities within the department contribute to nursing theory, practice, and education. Service activities focus on leadership and consultation in a variety of health related areas.

The Department of Nursing offers the Associate in Applied Science in Nursing and Bachelor of Science in Nursing degrees at the undergraduate level. Completion of either program qualifies students to take the NCLEX-RN examination for licensure as a registered nurse.

ASSOCIATE IN APPLIED SCIENCE IN NURSING: The purpose of the associate level is to prepare graduates who apply the nursing process in the provision of direct nursing care for clients with common, well-defined problems. Therefore, the associate curriculum is
grounded in the liberal arts and includes professional values, core competencies, core knowledge and role development. The associate degree graduate is prepared to function as a member of the profession and a manager of care in acute and community based settings.

**BACHELOR OF SCIENCE IN NURSING:** The nurse prepared at the baccalaureate level is a professional who has acquired a well-delineated and broad knowledge base for practice. We believe that the role of a baccalaureate graduate is multifaceted and developed through extensive study in the areas of liberal education, professional values, core competencies, core knowledge and role development. This knowledge base prepares the beginning baccalaureate graduate to function as a provider of direct and indirect care to individuals, families, groups, communities and populations. The baccalaureate graduate is also a member of the profession and a designer, manager and coordinator of care.

**EDUCATIONAL MOBILITY:** The nursing faculty is committed to the concept of educational mobility, and has provided a variety of approaches to Licensed Practical Nurses, to Licensed Psychiatric Technician Nurses, and to Registered Nurses prepared at the associate degree and diploma levels. LPNs, LPTNs, and RNs must work closely with their advisers. LPNs and LPTNs must be admitted to the desired program prior to enrolling in any nursing courses (except NRS 2203, NRS 3353, NRS 3392, and NRSP 3391). The BSN program has a specially designed RN track to facilitate RNs' movement through the BSN. The track includes a reduction in nursing clinical hours, and clinical experiences designed to accommodate individual learning goals. RNs must make application to the BSN program during the semester enrolled in NRS 3312. Detailed information may be obtained from the nursing office (972-3074) relative to earning credit by articulation or examinations.

Prospective students who are LPNs, LPTNs, or RNs applying for admission to any nursing program must have a current license in good standing with the Arkansas Board of Nursing.

**DISTANCE LEARNING PROGRAM:** The Department of Nursing offers nursing courses and programs by compressed video to selected rural Arkansas sites: Ozarka College in Melbourne; ASU-Mountain Home; and ASU-Beebe.

To contact Distance Learning offices:
- ASU-Jonesboro (Main campus) .............................................. (870) 972-2532
- ASU-Beebe ............................................................................. (501) 882-8291
- ASU-Mountain Home .......................................................... (870) 508-6170
- MSCC-West Memphis ............................................................ (870) 733-6722
- or Compressed Video Network Office ................................. (870) 972-2532

**EARLY GRADUATE SCHOOL ADMISSION.** If a BSN senior has a cumulative GPA of at least 2.75, or a GPA of 3.00 on the last 60 hours, and has the approval of the faculty adviser, the student may take a graduate level course in the final year of the BSN program. The total number of credits per semester may not exceed 15. Students will receive graduate credits only if the requirements for the bachelor's degree (BSN) have been met at the end of the second term, and all requirements for admission to the Graduate School are met.

**CRIMINAL BACKGROUND CHECKS.** Arkansas law requires applicants for licensure by examination to submit to criminal background checks. If an applicant has pleaded guilty or nolo contendere to any offense listed in Act 1208 of 1999, he/she is not eligible for Arkansas licensure. (Act 1208 of 1999 provides opportunity to request a waiver of eligibility criteria related to a criminal background in certain circumstances.)

**COMPREHENSIVE EXAM FEE:** This fee is charged to all students enrolled in NRSP 2244, NRS 4323, and NRSP 4366 or NRSP 4336. The approximate cost is $30.00. This fee is a part of the Department of Nursing Assessment program.

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**Major in Nursing**

**Associate in Applied Science in Nursing**

**Mountain Home and West Memphis**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1003 and 1013 Composition I and II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 or 2773, U.S. History To or Since 1876; OR</td>
<td>3</td>
</tr>
<tr>
<td>POSC 2103, Introduction to United States Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1013, College Mathematics or MATH 1023, College Algebra (or higher level math course)</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2003 and 2001, Human Anatomy and Physiology I and Laboratory for Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>CS 1043, Introduction to Computers; OR</td>
<td>4</td>
</tr>
<tr>
<td>CRT 1503, Microcomputer Applications; OR</td>
<td>3</td>
</tr>
<tr>
<td>any comparable three-hour computer course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 1214, Introduction to Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NRSP 1222, Fundamentals of Nursing Practice</td>
<td>2</td>
</tr>
<tr>
<td>NRS 1255, Nursing I</td>
<td>5</td>
</tr>
<tr>
<td>NRS 1252, Role Development I</td>
<td>2</td>
</tr>
<tr>
<td>NRS 1243, Clinical Practicum I</td>
<td>2</td>
</tr>
<tr>
<td>NRS 2215, Nursing II</td>
<td>5</td>
</tr>
<tr>
<td>NRS 2235, Nursing III</td>
<td>2</td>
</tr>
<tr>
<td>NRS 2252, Role Development II</td>
<td>2</td>
</tr>
<tr>
<td>NRS 2224, Clinical Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>NRS 2235, Nursing III</td>
<td>5</td>
</tr>
<tr>
<td>NRS 2252, Role Development III</td>
<td>2</td>
</tr>
<tr>
<td>NRS 2322, Clinical Practicum III</td>
<td>4</td>
</tr>
<tr>
<td>NRS 2372, Role Development Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3392, Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NRSP 3391, Health Assessment Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

**Required Support Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2103 and 2101, Microbiology and Laboratory for Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 1033, Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2003 and 2011, Human Anatomy and Physiology II and Laboratory for Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Nursing Associate in Applied Science in Nursing Mountain Home and West Memphis**

A. The following thirteen hours must be completed prior to application for the program:
- ZOOL 2003, Human Anatomy and Physiology I
- ZOOL 2011, Human Anatomy and Physiology Laboratory I
- ENG 1003, Composition I (must have a "C" or better)
- PSY 2033, Introduction to Psychology
- MATH 1023, College Algebra (or higher level math)
- Completion of all lab science and mathematics courses required for an Associate in Applied Science in Nursing degree with a minimum grade of "C" in each course.

B. The following courses must be satisfied prior to taking Microbiology.
- NRS 2235, Nursing III
- NRSP 2244, Clinical Practicum III
- MATH 1003, Composition II (must have a "C" or better)
- CGPA of 2.00 is required in science courses.

C. The following must be completed prior to graduation:
- HIST 2763 or HIST 2773, U.S. History To or since 1876
- OR POSC 2103, Introduction to United States Government

D. A minimum grade of "C" is required in all nursing courses for progression.

Following is one suggested sequence which may be taken after completion of prerequisites and admission to the program. Students should consult with their adviser for a plan that best meets individual needs.
Freshman Year

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 2013</td>
<td>HIST 2763 or HIST 2773 or POSC 2103</td>
</tr>
<tr>
<td>ZOOL 2111</td>
<td>ENG 1013</td>
</tr>
<tr>
<td>NRS 1214</td>
<td>NRS 1235</td>
</tr>
<tr>
<td>NRS 1222</td>
<td>NRS 1243</td>
</tr>
<tr>
<td>NRS 3392</td>
<td>NRS 1252</td>
</tr>
<tr>
<td>NRSP 3391</td>
<td>NRS 2244</td>
</tr>
<tr>
<td>CS 1043 or CIT 1503</td>
<td>NRS 2244</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2103 and BIOL 2101</td>
<td>NRS 2235</td>
</tr>
<tr>
<td>NRS 2215</td>
<td>NRS 2244</td>
</tr>
<tr>
<td>NRS 2224</td>
<td>NRS 2252</td>
</tr>
<tr>
<td>NRS 2252</td>
<td>NRSP 2272</td>
</tr>
</tbody>
</table>

**Associate in Applied Science in Nursing**

ASU participates in the statewide articulation program for licensed practical nurses (LPNs) seeking the AASN degree.

**LPN - AASN Program**

Jonesboro, Beebe and Mountain Home

Applicants who completed their LPN/LPTN programs greater than 12 months prior to applying to the AASN program must provide proof of work experience. For specific information concerning the LPN to RN program, contact the Department of Nursing Office at (870) 972-3074.

A. The following courses must be completed prior to fall nursing course work:

- MATH 1023, College Algebra (or higher level math course) .................................................. 3
- ENG 1013, Composition I (grade of "C" or better) ................................................................. 3
- ZOOL 2003 or ZOOL 2101, Anatomy and Physiology I with Lab ........................................ 4
- ZOOL 2013/2011, Anatomy and Physiology II with Lab ....................................................... 4
- PSY 2013, Introduction to Psychology .................................................................................. 3
- CIT 1503, Microcomputer Applications or CIS 1043, Introduction to Computers ............ 3
- NRS 3392, Health Assessment .............................................................................................. 3
- NRSP 3391, Health Assessment Practicum .......................................................................... 1

Completion of all science and mathematics courses required for an Associate in Applied Science in Nursing degree with a minimum grade of "C" in each course.

B. The following courses must be completed prior to NRS 2235 and NRSP 2244:

- ENG 1013, Composition II (grade of "C" or better) .......................................................... 3
- BIOL 2103, Microbiology ................................................................................................... 3
- BIOL 2101, Laboratory for Microbiology ........................................................................... 1

C. The following course must be completed prior to graduation:

- HIST 2763 or HIST 2773, U.S. History or POSC 2103, Introduction to United States Government ................................................................. 3

Suggested Sequence for Completion of Program

Following admission to the LPN-to-RN Program, a suggested sequence for the completion year is as follows:

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 1235, Nursing I ..................................... 5</td>
<td>NRS 2215, Nursing II .......................................... 5</td>
</tr>
<tr>
<td>NRS 1243, Clinical Practicum I .......................... 3</td>
<td>NRS 2224, Clinical Practicum II ............................. 4</td>
</tr>
<tr>
<td>NRS 1252, Role Development I ................................ 2</td>
<td>NRS 2252, Role Development II ............................... 2</td>
</tr>
<tr>
<td>BIOL 2103, Micro Biol for Nurses &amp; Allied Hlth. ........ 3</td>
<td>ENG 1013, Composition II ...................................... 3</td>
</tr>
</tbody>
</table>

Major in Nursing

Bachelor of Science in Nursing

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>46-49</td>
</tr>
</tbody>
</table>

**Specific General Education Requirements:**

- Students with this major must take the following:
  - MATH 1023, College Algebra
  - CHEM 1011, Laboratory for General Chemistry
  - CHEM 1013, General Chemistry I
  - PSY 2013, Introduction to Psychology
  - SOC 2121, Principles of Sociology
  - BIOL 2103, Microbiology and BIOL 2101, Laboratory for Microbiology

**Major Requirements:**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
</tr>
</tbody>
</table>

**Required Support Courses:**

- BIOL 2103 and BIOL 2101, Microbiology and Laboratory for Microbiology ........................................ 4
- CHEM 1031, Laboratory for Introduction to Organic and Biochemistry ........................................ 1
- CHEM 1033, Introduction to Organic and Biochemistry ............................................................... 3
- PSY 2103 and PSY 2101, Quantitative Methods for Behavioral Sciences and Quantitative Methods Laboratory, OR SOC 3383 and 3381, Statistical Methods and Laboratory for Social/Statistical Methods ........................................ 4
- ZOOL 2003, Human Anatomy and Physiology I and ZOOL 2001, Laboratory for Human Anatomy and Physiology I ................................................................. 4
- ZOOL 3143, Pathophysiology and NRS 3223, Interdisciplinary Clinical Pathology ................................ 3

**Special Requirements for qualified RNs who have at least two years of work experience following RN licensure:**

- RNs will take NRS 4311 and NRSP 4322 and 4363 in place of NRS 4336 and 4366 (Total degree hours will be 131.)

Total 133-136
LPN-TO-BSN OPTION

ASU participates in the statewide articulation program for licensed practical nurses (LPNs) and registered nurses (RNs) seeking the BSN degree. In that program, LPNs and RNs may earn credit by articulation or by challenge examination, depending on number of years since graduation from the applicant’s LPN, diploma or associate degree program in nursing.

Prospective students pursuing these options must meet current criteria relating to eligibility, application deadlines, course work and program policies and procedures. For specific information concerning the LPN-to-BSN program, contact the Department of Nursing office at (870) 972-3074.

Admission Requirements:
1. Current LPN/License-in-Arkanas
2. Overall GPA of 2.5
3. Current CPR/certification
4. Acceptable immunization status
5. Completed physical examination
6. Completion of all science and mathematics courses required for a baccalaureate degree in nursing, with a “C” or better in each class.
7. Completion of required support courses.

Note: Students meeting the above requirements will be admitted on clinical space availability.

Required Support Courses prior to Junior Year:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1013, Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023, College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2003, Human Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2001, Laboratory for Human Anatomy and Physiology I</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 2013, Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2101, Laboratory for Human Anatomy and Physiology II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1013, General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1111, Laboratory for General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1333, Introduction to Organic and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1331, Laboratory for Introduction to Organic and Biochemistry</td>
<td>1</td>
</tr>
<tr>
<td>BIOC 2101, Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 2101, Laboratory for Microbiology</td>
<td>1</td>
</tr>
<tr>
<td>PSY 3101, Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2013, Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2213, Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>NRS 3390, Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3391, Health Assessment Practicum</td>
<td>1</td>
</tr>
<tr>
<td>General Education Critical Thinking Option</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended General Education Credits: 21

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 3103, Quantitative Methods of Behavioral Sciences or SOC 3363</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3363, Social Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3101, Laboratory for Quantitative Methods of Behavioral Sciences or Social Statistical Methods</td>
<td>2</td>
</tr>
<tr>
<td>SOC 3363, Laboratory for Social Statistical Methods</td>
<td>1</td>
</tr>
<tr>
<td>NRS 3315, Acute Care Nursing I</td>
<td>5</td>
</tr>
<tr>
<td>NRS 3325, Nursing Care Systems III</td>
<td>5</td>
</tr>
<tr>
<td>NRS 3343, Clinical Pharmacology and Nursing Management</td>
<td>3</td>
</tr>
<tr>
<td>NRS 3301, Special Problems in Nursing</td>
<td>1</td>
</tr>
</tbody>
</table>

Fall: Fine Arts or Humanities: 3
Spring: NRS 3312, Introduction to Nursing Research: 2

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4312, Chronic Illness and Rehabilitation Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NRS 4336, Nursing Care V</td>
<td>6</td>
</tr>
<tr>
<td>NRS 4343, Professional Nursing Community</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4355, Critical Care and Emergency Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NRS 4362, Professional Role Development</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4373, Professional Nursing: Management</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4380, Critical Care and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

RN-TO-BSN OPTION

ASU participates in the statewide articulation program for registered nurses (Associate Degree and Diploma RNs) seeking the BSN degree. To facilitate movement through the BSN curriculum, a specially designed track has been developed for registered nurses who have demonstrated clinical proficiency. Clinical course will be individualized based upon the applicant’s portfolio.

The RN-to-BSN track features reduced nursing clinical hours, and clinical experiences are designed to accommodate individual learning goals. The length of study depends upon previous college credits and the courses needed to fulfill BSN requirements. Most RNs with an associate degree can complete the BSN program in two years of full-time study.

RN-BSN Nursing courses with the NRS prefix are available on the web.

Portfolio

The portfolio must contain the following documentation:
- Work Experience
- Resume
- Continuing Education
- Certifications
- Other items which support clinical competency.

Admission Requirements:
1. Current unencumbered registered nurse license
2. 1000 hours of recent work experience as an RN prior to enrollment in 4000 level nursing courses.
3. Overall GPA of 2.5
4. Completion of all required English, Science and Math courses with a “C” or better in each course.
5. Completion of required support courses

Note: Students meeting the above requirements will be admitted on clinical space availability.

Prior to taking first clinical course, the student must hold:
1. A current Arkansas nursing license
2. Professional liability insurance (minimum: $1,000,000/$3,000,000 coverage)
3. Current CPR certification
4. Acceptable immunization status
5. Completion of physical examination form

Required Support Courses prior to Senior Level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 3350, Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3391, Health Assessment Practicum</td>
<td>1</td>
</tr>
<tr>
<td>NRS 3312, Nursing Research</td>
<td>1</td>
</tr>
</tbody>
</table>

Senior Level:

Theory Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4311, Clinical Pharmacology and Nursing Management: Tertiary</td>
<td>1</td>
</tr>
<tr>
<td>NRS 4312, Chronic Illness and Rehabilitation Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NRS 4343, Professional Nursing: Community</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4355, Critical Care and Emergency Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NRS 4362, Professional Role Development</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4373, Professional Nursing: Management</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4380, Critical Care and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Clinical Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4323, Nursing Care VII: Community and Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4363, Nursing Care VIII: Critical Care and Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Nursing
Bachelor of Science (BSN)

Following is a suggested sequence in which requirements for the Bachelor of Science in Nursing degree may be completed. Students should consult with their adviser for a plan that best meets individual needs.

### Freshman Year (Pre-Nursing)

**Fall**
- ENG 1003
- MATH 1023
- ZOOL 2003
- Fine Arts
- Global Issues

**Spring**
- ENG 1013
- ZOOL 2011
- ZOOL 2013
- HIST 2763 or HIST 2773 or POSC 2103

The following requirements must be met before admission to the BSN program:
- 30 semester hours with a minimum GPA of 2.5, which must include:
  - ENG 1003 and 1013, Composition I and II
  - MATH 1023, College Algebra
  - At least eight hours of required freshman and sophomore sciences
  - A minimum grade of "C" earned in the required math and science courses

### Sophomore Year (Admission to BSN Program)

**Fall**
- CHEM 1013 and CHEM 1011
- NRS 3314
- NRS 3325
- Critical Thinking
- PE 1002
- SOC 2213

**Spring**
- CHEM 1033 and CHEM 1031
- NRS 3343
- NRS 3345
- NRS 3312
- NRSP 3356
- Fine Arts or Humanities

The following must be completed before enrollment in NRS 3315 and NRSP 3325:
- All sophomore level Nursing courses, the remaining 12 hours of lower division science courses, Introduction to Psychology and Principles of Sociology. A minimum grade of "C" must be earned in CHEM 1013, 1011, 1033, and 1031, BIOL 2103 and 2101 and ZOOL 2003 in 2001 and 2013 and 2011.

### Junior Year

**Fall**
- NRS 3315
- NRS 3325
- NRS 3343
- PSY 3101 and PSY 3103 or SOC 3383 and SOC 3381

**Spring**
- ZOOL 3143 or NRS 3023
- NRS 3345
- NRS 3312
- NRSP 3356
- Fine Arts or Humanities

The following courses and their prerequisites must be completed before enrollment in senior level nursing courses:
- All junior level nursing courses
- All required science and mathematics courses, with a minimum "C" in each course.

### Senior Year

**Fall**
- NRS 4312
- NRS 4335
- NRS 4643
- NRS Upper level elective
- NRSP 4362

**Spring**
- NRS 4336
- NRS 4343
- NRSP 4366
- Enhancement

### Bachelor of Social Work (BSW)

#### General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees .......................................................... 46-49

#### Specific General Education Requirements:

Students with this major must take the following:
- BIOL 1003, Biological Science
- BIOL 1001, Laboratory for Biological Science
- PSY 2013, Introduction to Psychology
- SOC 2213, Principles of Sociology
- POSC 2103, US Government

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 4533, Psychology of the Abnormal</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3333, Minority Groups</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3381, Social Statistical Methods Lab</td>
<td>1</td>
</tr>
<tr>
<td>SOC 3383, Social Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4293, Methods of Social Research</td>
<td>3</td>
</tr>
<tr>
<td>SW 2203, Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 2203, Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SW 3253, Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SW 3333, Human Behavior in Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SW 3333, Human Behavior in Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SW 4283, Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SW 4273, Field Experience I</td>
<td>3</td>
</tr>
<tr>
<td>SW 4283, Field Experience Seminar</td>
<td>3</td>
</tr>
<tr>
<td>SW 4296, Field Experience II</td>
<td>6</td>
</tr>
<tr>
<td>SW 4303, Social Work Practice III</td>
<td>3</td>
</tr>
<tr>
<td>SW 4313, Social Welfare Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Approved Electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14-29</td>
</tr>
<tr>
<td>Total</td>
<td>124</td>
</tr>
</tbody>
</table>

*Students must have 12 hours of approved upper division electives. Foreign language, specifically Spanish, is highly recommended. Students choosing language must complete all 12 hours in the sequence.

### Admission and Retention

All candidates for the Bachelor of Social Work must obtain official admission to the social work program. Details of application are found in the Social Work Handbook. Students who make formal application must meet the following criteria:

Department of Social Work

Professors Associate Professor and Chair of Social Work: Joiner; Associate Professors Freer; Assistant Professor Brewer; Walls, Instructors Fullen, Holt, Nash, Ryan; Field Coordinator Burcham.

The Bachelor of Social Work degree is accredited by the Council on Social Work Education. Completion of this program prepares students for beginning generalist social work practice.

Bachelors level social workers work with a variety of clients in many settings. The skills learned in the curriculum include interviewing skills, assessment skills, and intervention skills. The BSW qualifies the student to sit for the state exam at the Licensed Social Worker level. The state licensing law outlines the level of practice at this level. This is referred to as the Generalist Practice level.
1. Complete a minimum of 45 semester hours.
2. Achieve and maintain a minimum GPA of 2.5 overall and a 2.5 in major.
3. Complete the following courses with a grade of "C" or better in all social work required courses.
4. Make formal application to the program.
5. Appear for an interview by a SW faculty member.
6. Must meet the criteria listed in the handbook and be approved by the Program Screening Committee.

Social Work
Bachelor of Social Work

Following is a suggested sequence in which requirements for the Bachelor of Social Work may be completed. (Refer to index for developmental courses required for students with lower ACT scores.) Students should consult with their adviser for a plan that best meets individual needs.

Freshman Year

Fall Semester (15 hrs)
ENG 1003, Composition I
PSY 2513, Introduction to Psychology
SOC 2213, Principles of Sociology
Understanding Global Issues (3 hrs)

Spring Semester (15 hrs)
PE 1002, Concepts of Fitness or
NRS 2203, Basic Human Nutrition
ENG 1013, Composition II
BIOL 1003, Biology
BIOL 1001, Biology Lab
PSYC 2103, US Government
Electives (3 hrs)

Sophomore Year

Fall Semester (16 hrs)
ENG 2003, Intro to Lit I
GSP 1203, Physical Science
GSP 1201, Physical Science Lab
SW 2203, Introduction to Social Work
Critical Thinking (3 hrs)
Fine Arts (3 hrs)

Spring Semester (18 hrs)
ENG 2013, Intro to Lit II
ANTH 2233, Intro to Cultural Anthropology
SOC 2233, Social Problems
ECON 2313, Principles of Macroeconomics
Electives (6 hrs)

Junior Year

Fall Semester (16 hrs)
SW 3303, HBSE I
SOC 3383, Social Stats Methods
SOC 4293, Methods of Social Research
PSY 4533, Abnormal Psychology
Electives (6 hrs)

Spring Semester (15 hrs)
SOC 3383, Minority Groups
SOC 4293, Methods of Social Research
SW 3303, HBSE II
SW 3253, Social Work Practice I
Electives (3 hrs)

Senior Year

Fall Semester (15 hrs)
SW 4293, Social Work Practice II
SW 4273, Field Experience I
SW 4313, Social Welfare Policy
Electives (6 hrs)

Spring Semester (15 hrs)
SW 4303, Social Work Practice III
SW 4283, Field Experience Seminar
SW 4296, Field Experience II
Electives (3 hrs)

COLLEGE OF NURSING AND HEALTH PROFESSIONS COURSE DESCRIPTIONS

DEPARTMENT OF HEALTH PROFESSIONS

Health Professions (HP) (Special course fees may apply.)

1002. Freshman Seminar: Introduction to Health Sciences
Designed to help the first-year student adjust to the university, explore the purposes of higher education and the potential roles of students within the university. It will provide an introduction to the nature of university education, a general orientation to the functions and resources of the university, and a survey of career opportunities in the health sciences. (F)

2013. Medical Terminology
Basic language related to medical science and the health professions: word analysis, construction, spelling, definitions. (F, S)

3003. General Gross Anatomy
The regional topographic study of human gross anatomy using lecture, laboratory, discussion, and prosected cadavers. Emphasis is placed on surface anatomy, musculoskeletal and neuromuscular systems. Clinical correlations are highlighted. Lecture 2 hours per week. Laboratory 2 hours per week. Prerequisites: ZOOL 2011, ZOOL 2013. Enrollment will be limited. (F, S)

4133. Performance Enhancement and Metabolism for Sport and Exercise
Provides learners with a basic and applied scientific knowledge base that can be used to enhance human performance, to protect the health and safety of active individuals, and to be a critical consumer. (S)

Clinical Laboratory Science (CLS)

1511. Laboratory for Principles of Clinical Laboratory Science
Development of laboratory skills techniques which are applicable in all clinical laboratory areas. Corequisite: CLS 1512. (F, S)

1512. Principles of Clinical Laboratory Science
Introduction to concepts utilized throughout all the clinical laboratory areas. Corequisite: CLS 1511. (F, S)

1521. Urine and Body Fluid Analysis
Theory and analysis of urine and body fluids (excluding blood) in normal and pathological states. Techniques of analysis include physical, chemical, and microscopic procedures. Corequisite: CLS 1531. (S)

1531. Laboratory for Urine and Body Fluid Analysis
Performance of body fluid testing procedures necessary to function in a clinical body fluid laboratory. Corequisite: CLS 1521. (S)

2511. Laboratory for Medical Parasitology
Performance of laboratory procedures necessary to function in a clinical parasitology laboratory. Corequisite: CLS 2512. (SU)

2512. Medical Parasitology
Discussion of the laboratory diagnosis of parasites responsible for human infection. Includes the recovery and identification of parasites from patient specimens. Corequisite: CLS 2511. (SU)

2521. Laboratory for Hematology I
Performance of laboratory procedures necessary to function in a clinical hematology laboratory. Prerequisites: CLS 1512 and CLS 1511 or permission of the instructor. Corequisite: CLS 2523. (F)

2523. Hematology I
Discussion of the formation, morphology, and function of various blood cells and the principles of hemostasis. Includes the theoretical elements of related laboratory procedures. Prerequisites: CLS 1512 and CLS 1511 or permission of the instructor. Corequisite: CLS 2521. (F)
2514. Clinical Practicum I Allows students to become proficient in the areas of chemistry, utilizing the highly sophisticated equipment located in this discipline. Students will become members of the health care team under the direction of the clinical staff. Prerequisites: CLS 1511, CLS 1512, CLS 2541, 2543; CHEM 1011, CHEM 1013. (F, S, SU)

2524. Clinical Practicum II Allows the students to become proficient in the areas of hematology and urinalysis, utilizing the highly sophisticated equipment located in these disciplines. Students will become members of the health care team under the direction of the clinical staff. Prerequisites: CLS 1511, CLS 1512, CLS 1521, 1531, 2521, 2523. (F, S, SU)

2531. Laboratory for Medical Microbiology I Performance of laboratory procedures necessary to function in the microbiology section of a clinical laboratory. Prerequisite: BIOL 2101, BIOL 2103. Corequisite: CLS 2533. (F)

2533. Medical Microbiology I Study of pathology, biochemistry, and identification of organisms causing infectious diseases in humans. Includes collection and processing of specimens. Prerequisite: BIOL 2103 and 2101. Corequisite: CLS 2531. (F)

2541. Laboratory for Clinical Chemistry I Laboratory methods and techniques for the analysis of body fluids including routine assessment of body metabolism, renal function, liver function, electrolytes and acid/base balance, enzymes, and other routine assessment. Corequisite: CLS 2543. Pre- or corequisite: CLS 1511, CLS 1512, CHEM 1013, CHEM 1011. (S)

2543. Clinical Chemistry I Analysis of body fluids with correlation to both health and disease. Theoretical concepts include testing for body metabolism, renal function, liver function, electrolytes and acid/base balance, enzymes, and other routine assessment. Corequisite: CLS 2541. Pre- or corequisites: CLS 1511, CLS 1512, CHEM 1013, CHEM 1011. (S)

2551. Hematology Disorders for the Clinical Laboratory Technician Discussion of the basic principles of hematologic disorders, causes, laboratory results, and treatment. Prerequisites: CLS 1511, CLS 1512, CLS 2521 and CLS 2523. (S)

2561. Laboratory for Immunohematology I Performance of procedures necessary to function in a clinical blood bank. Prerequisites: CLS 2523, 2521, 2573, 2571, ZOOL 2013 and 2011. Corequisites: CLS 2563. (S)

2563. Immunohematology I Discussion of the principles involved in compatibility testing, antigen and antibody identification, donor blood acquisition and preparation, and a basic discussion of relevant diseases. Prerequisites: CLS 2523, 2521, 2573, 2571, ZOOL 2013 and 2011. Corequisite: CLS 2561. (S)

2571. Laboratory for Clinical Immunology and Serology Performance of laboratory procedures necessary to function in the serology section of a clinical laboratory. Prerequisites, ZOOL 2001, ZOOL 2003; Corequisite: CLS 2573. (F)

2573. Clinical Immunology and Serology Immunity in health and disease will be discussed. Provides theoretical basis of serological diagnostic procedures including techniques of test performance. Prerequisites, ZOOL 2001, ZOOL 2003; Corequisite: CLS 2571. (F)

3153. Clinical Biochemistry A study of the biochemical principles that make up the chemical and molecular aspects of the clinical chemistry laboratory. Case studies will apply biochemical principles involved in day-to-day practices and how they work in disease processes. Prerequisite: CHEM 3103 and CHEM 3101. (S)

3221. Laboratory for Hematology II Performance of advanced laboratory procedures, recognition of cells and lab values related to hematology disorders, development of cases related to specified hematology disorders. Prerequisites: CLS 2523 and CLS 2521. Corequisite: CLS 3223. (F)

3223. Hematology II In-depth discussion of hematologic disorders, causes, laboratory results, and treatment. Prerequisites: CLS 2521 and CLS 2523. Corequisite: CLS 3521. (F)

3343. Principles of Diseases for the Clinical Laboratory Sciences Introduction to disease processes in the major systems of the body, with practical applications for clinical laboratory personnel. Prerequisite: Junior standing in CLS-BS Program. (F)

3514. Clinical Practicum III Enhances learning experiences in microbiology and parasitology. Students will become members of the health care team under the direction of the clinical staff. Prerequisites: CLS 2511, 2512, 2531, 2533. This course open only to CLT Majors. (F, S, SU)

3524. Clinical Practicum IV Enhances the learning experiences in serology and blood bank techniques. Students will become members of the health care team under the direction of the clinical staff. Prerequisites: CLS 2561, 2563, 2571, 2573. This course open only to CLT Majors. (F, S, SU)

3522. Clinical Laboratory Management Introduction to supervisory aspects of fiscal management, law, quality assurance, planning, organization, and communications as applicable to clinical laboratory medicine. Prerequisites: Permission of the CLS program director. Admission to CLS-BS Program; Junior standing and completion of CLS 4174, CLS 4184, CLS 4184, and CLS 4204. (F)

4013. Molecular Diagnostics This course will identify important aspects of molecular-based hematology-oncology testing, microbiology testing, and pharmacogenetics, as well as addressing proteomics and genomics in the clinical laboratory environment. (S)

4101-2. Special Problems in Clinical Laboratory Science Specific area with the topic and mode of inquiry agreed upon by the student and instructor. Registration may be repeated with various topics. Registration must be approved by the program director. (F, S)

4111. Laboratory for Clinical Chemistry II Complex analysis of body fluids with correlation to both health and disease. Theoretical concepts include testing for body metabolism, renal function, liver function, electrolytes, and acid/base balance, enzymes, and other routine assessment. Prerequisites: CHEM 1013, 1011; CLS 2543, 2541. Corequisite: CLS 4113. (F)

4113. Clinical Chemistry II Complex analysis of body fluids with correlation to both health and disease. Theoretical concepts include advanced testing for body metabolism, renal function, liver function, electrolytes, and acid/base balance, enzymes, endocrinology and therapeutic drug monitoring. Prerequisites: CHEM 1013, CHEM 1011; CLS 2543, CLS 2541. Corequisite: CLS 4111. (F)

4174. Clinical Practicum I Clinical laboratory experience in chemistry and special chemistry. Prerequisite: admission to clinical program. This course open only to CLS Majors. (F, S, SU)

4184. Clinical Practicum II Clinical laboratory experience in hematology and coagulation and urinalysis. Prerequisite: admission to clinical program. This course open only to CLS Majors. (F, S, SU)

4194. Clinical Practicum III Clinical laboratory experience in microbiology and parasitology. Prerequisite: admission to clinical program. This course open only to CLS Majors. (F, S, SU)

4204. Clinical Practicum IV Clinical laboratory experience in immunohematology and serology. Prerequisite: admission to clinical program. This course open only to CLS Majors. (F, S, SU)

4211. Clinical Laboratory Educational Roles This course prepares the student for the educational roles that will be assumed in the clinical laboratory or other settings. Prerequisite: Senior standing in the BS CLS Program. (S)
Communication Disorders (CD)

1103. Voice and Articulation Improvement  Designed to aid students experiencing difficulty with oral communication because of one or more of the following reasons: missing final consonants; misarticulation; mispronunciations; improper grammar; monotone speech; harsh, nasal, or breathy voice; not using pitch inflections to carry meaning, and speaking too fast. (D)

2104. Anatomy and Physiology of Communication  An introductory study of the nervous system and a detailed study of normal anatomy and physiology related to speech, swallowing, and language. The course includes lecture and lab components. Prerequisites: None. Recommend ZOOL 2003/1 Human Anatomy and Physiology I and Lab prior to CD 2104 Anatomy and Physiology of Communication. (F, S)

2203. Phonetics  Emphasis given to analysis of the formation and production of spoken English. Training in the use of the International Phonetic Alphabet. (F, S)

2653. Introduction to Communication Disorders  A survey of the profession of speech pathology and audiology. Includes introduction to language disorders, misarticulations, stuttering, and hearing disorders. 10 hours of clinical observation required. (F, S)

3003. Speech and Hearing Science  This course is a study of topics underlying the human communication process and its physiological measurement including production, transmission, reception and perception. (F, S)

3043. Speech Science*  A study underlying the human communication process including speech anatomy, production, transmission, and perception. Prerequisite: CD 2103. (D)

3113. Aging in Communication  This course examines the aging process and its impact on communication. Normal and disordered aspects of speech and hearing resulting from aging will be addressed. Emphasis will be on assessment, intervention, and prevention of age related communication disorders. (Su)

3303. Normal Language Development  Normal development of the oral communication process emphasizing phonological and syntactical development of children. (F, SU)

3402. Introduction to Manual Communication  An introductory course in American Sign Language and signing Exact English. Emphasis on acquisition of vocabulary and development of receptive language skills. (F, S)

3503. Audiology  A consideration of the causes of hearing loss, with practical experiences in diagnostic audiometric procedures. Identification of hearing problems, methods of speech and language training, and methods of teaching speech reading discussed and demonstrated. (F)

3803. Service Delivery in Communication Disorders*  An introduction to speech-language programs, their organization and administration. Fifteen hours of clinical observation required. (F, S)

4093. Neurological Bases of Human Communication*  A study of the structure and function of the nervous system as related to normal communication. (F)

4103. Fluency Disorders*  A study of speech as a time-related adaptive behavior. Discussion of various types of fluency disorders, their identification, assessment and intervention. (F)

4254. Introduction to Neurogenic Disorders*  A survey of speech, cognitive-linguistic, and swallowing disorders following neurologic insult. The course will include assessment and general intervention strategies. Prerequisite: CD 4093 or permission of instructor. (S)

4303. Language Intervention for Individuals with Mild Disabilities*  Assessment procedures for evaluating language disorders and language intervention procedures for individuals with mild disabilities. Prerequisite: CD 3303 or permission of instructor. (F, S)

4403. Aural Rehabilitation  Method of instruction in auditory training, speech reading, and hearing aid orientation. Prerequisite: CD 3503 or permission of instructor. (S)

4451. Introduction to Clinical Practice*  Management of articulatory and/or language-impaired client to include assessment, IEP and lesson plan development, and intervention. Prerequisites: CD 3703, 3803, and 4303. (F, S)

4502. Advanced Manual Communication  An advanced course designed to continue development of basic language skills in American Sign Language and Signing Exact English. Prerequisite: Permission of instructor. (D)

4553. Craniofacial Anomalies and Communication Disorders*  A study of the speech, language, hearing, and swallowing disorders associated with cleft palate and other craniofacial syndromes. Prerequisites: Admission to the UG Program in Communication Disorders. (F)

4703. Articulation and Phonological Disorders*  Characteristics of articulatory and phonologic disorders. Assessment and intervention of articulatory and phonologic disorders. Prerequisite: CD 2203. (F, S)

4751. Clinical Practice I*  Direct clinical practice stresses assessment, report writing, development of treatment plans, session plans, and progress reports. All students must complete this clinical practice course at the ASU Speech and Hearing Center. Each semester hour accounts for a minimum of 50 clock hours of clinical practice. Prerequisites: CD 3803, CD 4303 and CD 4703. (F, S)
4755. Practicum in Communication Disorders* (10 hours credit) Clinical experience with clients with speech, language, and acoustical disabilities. (must meet requirements for student teaching) (F, S)

4801-3. Special Topics Workshop A specially designed series of learning experiences to enhance the professional capabilities of speech pathologists. Opportunity for participants to engage in meaningful learning activities and interact with recognized professionals in the field. Course may be repeated for credit. (D)

4891-3. Independent Study in Communication Disorders Student may engage in studying specific problems in Communicative Disorders. May not be repeated. Prerequisites: Senior standing and approval from professor and department chair. (D)

*Prerequisite: Admission into the Communication Disorders Program

Physical Therapy (PT)

2003. Introduction to Physical Therapy Introduction to the multifaceted profession of physical therapy. Topics include the evolution of American physical therapy; applications for physical therapy; the knowledge, skills, and attitudes required in physical therapy; concepts of the health care team, ethics, and evidence-based practice. (F,S)

4001-2-3. Independent Study in Physical Therapy Guided investigation of a topic related to physical therapy selected in consultation with a member of the Physical Therapy faculty. May be repeated for different topics for a total of 6 semester credits. Prerequisite: Approval of the Program Director.

4103. Research Methods in Physical Therapy An introduction to the processes involved in research related to the field of physical therapy. Special emphasis is placed on the application of concepts of measurement, the design of research techniques and methods, for the preparation of the research proposal. Methods of data analysis will also be discussed. Prerequisite: STAT 3233. (F,S)

Physical Therapist Assistant (PTA)

PTA courses are only open to students admitted to the professional program.

2116. Patient Care Fundamentals Introduction to fundamentals of physical therapy patient care (SU)

2126. Movement Science Introduction to basic principles of musculoskeletal examination and evaluation of the human body. Students learn components of a patient history, systems review, observation and physical examination. Goniometry, muscle testing, sensory and reflex testing, functional assessment, special tests, palpation, posture analysis and gait analysis are covered. (SU)

2213. Musculoskeletal PT Students review passive, active and active assistive range of motion skills. Resistance exercise and the use of exercise equipment are practiced. Stretching and joint mobilization for specific diagnoses that are appropriate for the PTA to perform are practiced. (F)

2223. Physical Agents and Massage Basic principles and techniques of massage and application of modalities are presented. An investigation into the risk factors and pathophysiological considerations associated with integumentary diseases and conditions as well as aseptic technique and universal precautions is provided. (F)

2233. Neuromuscular PT I Covers foundational science and theory behind the physical therapy management of patients with neuromuscular conditions. (F)

Nuclear Medicine (RSN)

4113. Nuclear Medicine Pharmacy This course focuses on the study of the chemical and biological aspects of radiopharmaceuticals, radionuclides, radioactive decay, and the preparation and quality control of radiopharmaceuticals. Clinical procedure information for magnetic resonance imaging studies. Prerequisites: Admission to the Nuclear Medicine Program. (S)

4213. Nuclear Medicine Physics and Instrumentation This course focuses on the study of nuclear medicine physics, especially radionuclide production and detection, counting statistics, energy spectrum analysis, and scintillation imaging systems. Prerequisites: Admission to the Nuclear Medicine Program. (F)

4313. Nuclear Medicine Procedures I This course focuses on the study of nuclear medicine clinical procedures for in-vivo and in-vitro studies, related anatomic studies, and associated physiologic pathologic conditions. Prerequisites: Admission to the Nuclear Medicine Program, Corequisites: RSN 4213 and RSN 4513. (F)

4323. Nuclear Medicine Procedures II This course focuses on the continued study of nuclear medicine-clinical procedures for in-vivo and in-vitro studies, related anatomic studies, and associated physiologic pathologic conditions. Prerequisite: RSN 4313. Corequisite: RSN 4523. (S)

4513. Nuclear Medicine Clinical Education I The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in nuclear medicine procedures. Prerequisites: Good standing in the Nuclear Medicine program. (F)
307 306

Radiologic Technology (RT)

1012. Clinical Relevancy in Radiography A special interest course for those who are planning to sit for the national registry examination for radiography. The course will cover radiographic anatomy, positioning, terminology, exposure, physics, equipment operation and maintenance, processing, and image evaluation. (SU)

1103. Introduction to Radiologic Technology Basic principles associated with the practice of radiologic technology. Includes professionalism, ethical responsibilities, foundations of imaging, radiation protection and patient care procedures. (SU)


1112. Laboratory for Basic Radiologic Procedures The laboratory associated with Basic Radiologic Procedures. Corequisite: RT 1112. (SU)

1202. Radiologic Procedures Radiographic anatomy and positioning of the upper extremity, shoulder girdle, lower extremity and pelvic girdle. Includes positioning nomenclature, pathology and film evaluation. Prerequisite: RT 1112 and 1121. (F)

1211. Laboratory for Radiologic Procedures The laboratory associated with Radiologic Procedures. Corequisite: RT 1102. (F)

1232. Clinical Practicum I Supervised clinical experience in routine radiographic procedures. Students are evaluated with a competency-based evaluation system. Prerequisite or corequisite: RT 1112, 1203, 1211, and 2133. (F)

1303. Advanced Radiologic Procedures Radiographic anatomy and positioning of the vertebral column, bony thorax, skull, facial bones, and sinuses. Includes positioning nomenclature, pathology, and film evaluation. Prerequisite: PHYS 2133, RT 1203, 1211, 1232 and ZOOL 1013 and 1011. (S)

1311. Laboratory for Advanced Radiologic Procedures The laboratory associated with Advanced Radiologic Procedure. Corequisite: RT 1303. (S)

1323. Principles of Exposure I Coordinated classroom-laboratory study of radiation physics associated with x-ray production, interactions between ionizing radiations and matter, and associated health physics issues. Prerequisite: PHYS 2133 Survey of Physics for Health Professions. (F)

1332. Clinical Practicum II Supervised clinical experience in all aspects of clinical radiography. Students are evaluated with a competency-based evaluation system. Prerequisite: RT 1232. (S)

2001-2-3. Special Projects in Radiologic Technology Individual study assignment designed to be a research paper or project on selected topics in Radiologic Technology. May be repeated with various topics. Registration must be approved by Program Director. (F, S, SU)

2104. Clinical Practicum III Supervised clinical experience in all aspects of clinical radiography. Students are evaluated with a competency-based evaluation system. Prerequisite: RT 1332. (SU)

2114. Clinical Practicum IV Supervised clinical experience in all aspects of clinical radiography. Students are evaluated with a competency-based evaluation system. Prerequisite: RT 2104. (SU)

2121. Principles of Exposure II Laboratory Laboratory for RT 2122. Corequisite: RT 2122 Principles of Exposure II. (S)

2122. Principles of Exposure II Coordinated classroom-laboratory study of radiologic imaging systems with emphasis on theories and concepts of imaging equipment, image acquisition, and processing. Prerequisite: RT 1323 Principles of Exposure I. (S)

2202. Radiologic Specials Radiographic anatomy and positioning of the gastrointestinal tract and biliary system. Includes special procedures associated with diagnostic radiology. Prerequisite: RT 1303 and 1311. (F)

2212. Principles of Exposure III Coordinated classroom-laboratory continuation of the study of radiation physics with particular emphasis on radiographic exposure technique systems and related health physics. Prerequisite: RT 2122 Principles of Exposure II. (F)

3223. Clinical Practicum V Advanced clinical experience in radiology. Students are evaluated with a competency-based evaluation system. Includes diagnostic radiology, special procedures, radiation therapy, nuclear medicine, ultrasound, computed tomography and magnetic resonance imaging. Prerequisite or corequisite: RT 2114, 2202, and 2212. (F)

3312. Radiobiology Principles of health physics, radiation protection, and radiobiology. Deals in depth with clinical applications. Prerequisite: RT 2212. (S)

3332. Radiologic Pharmacology and Drug Administration The concepts and applications of pharmacology and drug administration unique to the radiologic setting. Contrast media types and administration is covered in detail. Prerequisites: RT 3223 and RT 2202. (S)

3333. Clinical Practicum VI Continuation of RT 3223. Includes final competency evaluation. Prerequisite or corequisite: RT 3223, 3312, and 3332. (S)

3113. Radiologic Pathophysiology A general survey of medical and surgical diseases. Focus is on manifestations of disease related to all imaging modalities in radiology. (F)

Imaging Specialist (RS)

3122. Legal and Regulatory Environment of Radiology Introduction to the growing legal and regulatory requirements being placed on radiology departments and professionals. Content includes American College of Radiology, Joint Commission on Accreditation of Healthcare Organizations, Food and Drug Administration, and state regulatory regulations as well as other legal considerations regarding personnel, operations and staffing. (S, SU II)

3133. Radiologic Sectional Anatomy Radiologic concepts and applications of sectional anatomy including transverse, sagittal and coronal sections of all body areas. Prerequisite: ZOOL 2003 and 2001. (F, S, SU II)
3152. Advanced Imaging and Therapy II Foundation information on the physics, instrumentation, and clinical procedures for cardiovascular interventional technology, mammography, bone densitometry, nuclear medicine, and radiation therapy. (S)

3811. Radiologic Quality Management Administration Administrative aspects of the concepts and applications of the various quality assurance theories and techniques. Includes those quality functions mandated by various accrediting bodies related to medical imaging and radiation therapy. (F)

4333. Radiologic Education Concepts An examination of various educational principles and methods appropriate for instruction in radiologic technology educational programs. Particular emphasis will be placed on the competency-based approach to instruction and ICNCP guidelines. Pre- or corequisite: PSY 3703 or permission of program director. (S)

4343. Radiologic Administrative Concepts Introduction to the organization, operations, and management of a radiology department. Includes an introduction to health care delivery systems, decision-making, and the management functions. Prerequisite: Senior status or permission of program director. (F)

4361-2-3. Independent Study in Radiologic Sciences Guided investigation of an advanced radiological topic selected in consultation with a member of the radiologic sciences faculty. May be repeated with different topics for a total of 6 semester credits. Prerequisite: Senior status or permission of program director. (On Demand)

4423. Cardiovascular-Interventional Procedures and Instrumentation The course will discuss angiography and interventional procedures. The student will be introduced to the specialized equipment required to produce and acquire the images and for monitoring the patient. Patient care procedures, medical and legal implications, and pharmaceutical and contrast agents specific to each examination will be defined. (F)

4442. Cardiac Physiology and Procedures This course emphasizes cardiac anatomy and physiology, electrocardiography (ECG) instrumentation, procedural performance, and elementary interpretation. Diagnostic imaging procedures and interventional therapies related to coronary disease and dysfunction are also presented. Hands-on experience with ECG equipment will be introduced. (S)

4451. Cardiovascular Interventional Clinical Education I The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in cardiovascular and interventional radiology. Prerequisites: Good standing in the Radiologic Sciences program. (F) (S) (SU)

4462. Cardiovascular Interventional Clinical Education II The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in cardiovascular and interventional radiology. Prerequisites: RS 4451. (F) (S) (SU)

4532. Mammmography Proc. & Instrumentation This course is designed to introduce the student to the technical and procedural aspects of mammography. Various aspects of mammography, breast anatomy, patient interaction and exam procedures will be covered. (S)

4541. Mammmography Clinical Education I The course will provide advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in mammography and bone densitometry. Prerequisites: Good standing in the Radiologic Sciences program. (F, S, SU)

4552. Mammmography Clinical Education II The course will provide advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in mammography and bone densitometry. Prerequisites: RS 4451. (S, SU, F)

4632. Computed Tomography Instrumentation Advanced concepts and applications of the various procedures performed and equipment used in the computed tomography suite. Emphasizes the understanding of the equipment and the performance of all procedures. Prerequisites: RS 3121 and RS 3133. (F -odd)

4641. Computed Tomography Clinical Education I The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in computed tomography. Prerequisites: Good standing in the Radiologic Sciences program. (F) (S) (SU)

4652. Computed Tomography Clinical Education II The course will provide advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in computed tomography. Prerequisites: RS 4461. (F) (S) (SU)

4713. Magnetic Resonance Imaging Physics and Instrumentation This course provides equipment instrumentation information for magnetic resonance imaging studies. Prerequisites: none. (F -even)

4733. Magnetic Resonance Imaging Procedures This course provides clinical procedure information for magnetic resonance imaging studies. Prerequisites: Good standing in the Radiologic Sciences program. (S -odd)

4751. Magnetic Resonance Imaging Clinical Education I The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in magnetic resonance imaging. Prerequisites: Good standing in the Radiologic Sciences program. (F) (S) (SU)

4762. Magnetic Resonance Imaging Clinical Education II The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in magnetic resonance imaging. Prerequisites: RS 4751 (F) (S) (SU)

4852. Advanced Radiologic Pathophysiology I This course is an intensive study of the radiographic manifestations of diseases that affect the musculoskeletal and respiratory systems, excluding neoplasms. Emphasis is on physiologic changes evident in images and differentiating which imaging modalities are most sensitive in detecting these changes. (F, S)

4862. Advanced Radiologic Pathophysiology II This course is an intensive study of the radiographic manifestations of neoplasms and diseases that affect vascular systems. Emphasis is on physiologic effects of neoplasma and vascular system diseases and image manifestations of these effects. (S, SU)

Core Courses

3142. Advanced Imaging and Therapy I Foundation information on the physics, instrumentation, and clinical procedures for digital imaging, computed tomography, magnetic resonance imaging, diagnostic medical sonography equipment as well as an overview of quality management concepts. (F)

4112 (4313). Radiologic Research Analysis The concepts and applications of reviewing, critically evaluating, and writing radiological scientific literature. Includes manuscript preparation. Prerequisite: Senior status or permission of program director. (F)
Radiation Therapy (RST)

4203. Introduction to Radiation Therapy and Patient Care This course will provide an overview of the foundations of radiation therapy and the practitioner's role in the health care delivery system. Prerequisites: Admission to the Radiation Therapy program. (F)

4214. Radiation Therapy Principles and Practice I The course will provide a knowledge base for assessing, comparing, contrasting and recommending the type of radiation therapy equipment, procedure and technique, patient positioning and immobilization for appropriate tumor localization and treatment delivery. Prerequisites: Admission to the Radiation Therapy program. (F)

4224. Radiation Therapy Principles and Practice II The course will examine and evaluate the management of specific neoplastic disease. Prerequisites: RST 4214 Radiation Therapy Principles and Practice I and good standing in the Radiation Therapy program. (S)

4234. Radiation Therapy Principles and Practice III The course will build on the foundations of the principles of radiation therapy practice from the two previous courses. Prerequisites: RST 4224 Radiation Therapy Principles and Practice II and good standing in the Radiation Therapy program. (SU)

4242. Radiation Therapy Clinical Treatment Planning The course will establish factors that influence and govern clinical planning of patient treatment. Prerequisites: RST 4322 Radiation Physics II, RST 4524 Radiation Therapy Clinical Education II and good standing in the Radiation Therapy program. (SU)

4313. Radiation Therapy Physics I This course will establish a knowledge of physics pertinent to developing an understanding of radiations used in the radiation therapy clinical setting. Prerequisites: Admission to the Radiation Therapy program. (F)

4323. Radiation Therapy Physics II The course will review and expand concepts and theories in the Radiation Physics I course. Prerequisite: RST 4312 Radiation Physics I and good standing in the Radiation Therapy program. (S)

4333. Applied Radiation Biology This course will present basic concepts and principles of radiation biology. Prerequisites: RST 4322 Radiation Physics II, RST 4524 Radiation Therapy Clinical Education II, and good standing in the Radiation Therapy program. (SU)

4413. Radiation Protection, Safety, and Quality Management This course will present principles of radiation protection and safety for the radiation therapist. Prerequisites: RST 4312 Radiation Physics I and good standing in the Radiation Therapy program. (S)

4513. Radiation Therapy Clinical Education I The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Prerequisites: Good standing in Radiation Therapy program. (F)

4523. Radiation Therapy Clinical Education II The course will have immediate content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Prerequisites: RST 4513 Radiation Therapy Clinical Education I and good standing in the Radiation Therapy program. (S)

4533. Radiation Therapy Clinical Education III The course will have advanced content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Prerequisites: RST 4524 Radiation Therapy Clinical Education II and good standing in the Radiation Therapy program. (SU)

Diagnostic Medical Sonography (RSU)

4102. Introduction to Ultrasound This course will provide an overview of the foundations of diagnostic medical sonography and the practitioner's role in the health care delivery system. Prerequisites: Admission to the Diagnostic Medical Sonography program. (F)

4222. Ultrasound Physics and Instrumentation II This course will provide advanced theoretical foundations and clinical applications of ultrasound physics and instrumentation, including Doppler principles, performance testing, and bioeffects. Prerequisite: RSU 4213. (S)

4313. Abdominal Sonography I Specific anatomic and pathologic information necessary for the clinical practice of abdominal diagnostic medical sonography including abdominal organs and vascular structures. Prerequisites: RSU 4213. (S)

4333. Abdominal Sonography II Specific anatomic and pathologic information necessary for the clinical practice of abdominal diagnostic medical sonography including small parts, breast, and Doppler techniques. Prerequisite: RSU 4313. (S)

4341. Abdominal Sonography II Laboratory Directed laboratory experience using a sonographic simulator to reproduce patient pathologies necessary to performing information presented in the co-requisite lecture course. Corequisite: RSU 4341. (S)

4533. Ultrasound Clinical Education II The course will provide advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in abdominal diagnostic medical sonography. Prerequisites: Good standing in the Diagnostic Medical Sonography program. (SU)

4613. Obstetric and Gynecologic Sonography Specific anatomic and pathologic information necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonography. Prerequisites: RSU 4213, Ultrasound Physics and Instrumentation. (F)

DEPARTMENT OF NURSING

Nursing (NRS)

1214. Introduction to Nursing Introduction to the health care system. Focus on theories and concepts in assisting the individuals in maintaining activities of daily living. Prerequisites: PSY 2513, MATH 1023, ZOOL 2003 and 2001, ENG 1003. (S)

1235. Nursing I Theories and concepts necessary for effective assessment of individual's and families' ability to meet activities of daily living and developmental needs. Maternal-child and adult health problems that are usual, expected and have predictable outcomes are studied. Emphasis is placed upon the student's use of the nursing process in identifying these problems and their resolutions through relevant nursing interventions. Prerequisites: admission to the program or NRS 1213, NRS 1422, NRS 3392, NRS 3391; or Corequisites: NRS 3392, NRS 3391, NRS 1252, NRS 1243. (F)

1252. Role Development I An introduction to the roles of the associate degree nurse as a provider of care, manager of care, and member of the profession. These roles will be explored as they relate to the profession of nursing, legal and ethical issues, principles of teaching and learning, theory of nursing, professional accountability, and current health issues. Corequisites: NRS 1235 and NRS 1243. (F)
1313. **Growth and Dev. for Prof. Nurse**  Students will gain an understanding of physical, physiological, cognitive, psychological, social and moral aspects of human growth and development. Implication for health and nursing care along with well-being of individuals and families will be discussed. (F, S, SU)

1411. **Clinical Calculations**  Provides additional experiences in calculation systems, conversions, and medications given in the clinical setting. Will not count as a nursing elective. Open to all ASN and BSN students, LPNs, RNs or by permission of instructor. This course may be repeated for a maximum of three hours. (F, S)

2203. **Basic Human Nutrition**  Basic concepts of nutrition including factors that have an impact upon nutritional practices. Special attention to age-related nutritional needs. Open to nursing and non-nursing majors. (F, S)

2215. **Nursing II**  Continued use of the nursing process, with an emphasis upon the biopsychosocial-cultural aspects of individuals and families. Mental health and adult health problems that are usual, expected and have predictable outcomes are studied. Prerequisite: NRS 1235 and NRSP 1243. (S)

2235. **Nursing III**  Continuation of focus on clients experiencing conditions that are usual, expected, and have predictable outcomes. Emphasis is upon the nursing process with modification and redesign of the plan of care. Prerequisite: NRS 2215, 2252, NRSP 2224, ENG 1013, and BIOL 2103 and BIOL 2101. GPA of 2.0 in required science courses. (F)

2252. **Role Development II**  An analysis of the role of the associate degree nurse, and the legal/ethical issues in the health care system. Managerial and leadership aspects of the associate degree nurse as related to manager of care and member of the profession are discussed. Prerequisite: NRS 1235 and NRS 1252; Corequisites: NRS 2215 and NRSP 2224. (S)

2262. **Role Development III**  Synthesis of the roles and competencies of the associate degree nurse with emphasis on the roles of manager of care and member within the profession of nursing. Selected topics on current issues and trends that influence nursing practice, organizations, ethical-legal issues and nursing management process/ skills are explored. Prerequisite: NRS 2215, NRS 2252, and NRSP 2224. Corequisites: NRS 2235, NRSP 2272, and NRSP 2244. (F)

311. **NCLEX Preparation**  An introduction to the essential skills of problem-solving and test-taking that are critical to professional nursing. (F)

314. **Concepts of Nursing**  Introduction to the concepts and theories basic to nursing assessment and intervention. General concepts of health, illness, and professionalism are explored. Focus is upon meeting basic human needs throughout the lifespan. Prerequisite: Admission to the BSN program. Corequisite: NRSP 1222. (F)

2334. **Health Promotion and Introduction to Acute Care Nursing**  Focus is on health promotion surrounding life cycle events as well as an introduction to acute care. Growth and development and family theory are addressed as professional concepts. Prerequisites: NRS 2314 and NRSP 1222. (S)

3023. **Interdisciplinary Clinical Pathophysiology**  This course is an overview of the specific disruptions of normal physiology and alterations, mechanisms involved, their disease manifestations and the therapeutic principles underlying treatment. This course provides a link between the basic biological sciences and their clinical application. Prerequisites: Anatomy and Physiology I & II and Microbiology (or by permission of instructor). (F, S, SU)

3312. **Introduction to Nursing Research**  Explores the role of the nurse in the research process and provides the skills needed to evaluate and use research findings. Prerequisite or corequisite: PSY 3103 and 3101 or SOC 3633 and 3381. Corequisite: NRS 3345 and NRSP 3355. (S)

3315. **Acute Care Nursing I**  Health focus is on acute illness. Integrated foci include adult medical-surgical, geriatrics, pediatrics, mental health and nutrition. Prerequisites: NRS 2334, NRS 2343, NRS 3392 and NRSP 3391. (F)

3333. **Women's Health: Past, Present and Future**  Health problems of women studies with both a traditional and contemporary focus. Emphasis on current information needed by health professionals to help women achieve optimum wellness. Prerequisites: Junior level nursing status or permission of instructor. (F, SU)

3343. **Clinical Pharmacology and Nursing Management**  Concepts essential for integration of pharmacological theory into professional nursing practice. Corequisite: NRS 3315 or permission of instructor. (F, SU)

3345. **Acute Care Nursing II**  Continuation of concepts introduced in NRS 3315. Prerequisites: NRS 3315 and NRS 3343. (S)

3353. **Aging and the Older Adult**  Analysis of the aging process in today's society. Includes theories of aging, ethical issues, biopsychosocial aging changes, impact of changing needs on support systems. Open to nursing and non-nursing majors. Prerequisites: PSY 2013 or consent of instructor. (F, SU)

3363. **Disaster Preparedness**  Analysis of disaster preparedness for chemical, biological, and radiological terrorism and other hazards. Identification of legal/ethical issues, the role of the media, effective communication, special needs of vulnerable population, including resources for hospitals, communities, states, national and medical emergency personnel. Prerequisite: Junior level nursing status or permission of instructor. (SU I & II)

3383. **Gerontological Nursing**  Emphasis is placed on the normal biophysical and psychological changes which occur as part of the normal aging process. Strengths, capabilities, problems, and limitations imposed by the pathological changes of aging are identified. Values, beliefs, and attitudes as well as resources are explored. Prerequisite: Junior with 10 hours of nursing credit, Registered Nurse status, or permission of instructor. (D)

3392. **Health Assessment**  Focus on obtaining a health history and physical assessment of the adult. An overview of the pediatric, obstetrical, and geriatric client is included. Prerequisite for admission to LPN-AASN Program: permission of instructor. Corequisite: NRS 3391. LPNs and RNs can take prior to admission to professional program. Prerequisite: ZOOL 2003 and 2001. Pre- or co-requisite: ZOOL 2013, 2011 and NRSP 3391. (F, S, SU)

4053. **Today's Families: Interdisciplinary Approaches**  An interdisciplinary course designed to promote a critical approach to examine the family and its role in society. Prerequisite: 12 hours of coursework in Interdisciplinary Family Minor or Instructor's permission. (S)

4311. **Clinical Pharmacology and Nursing Management: Tertiary**  Focuses on nursing responsibilities related to medications used in complex patient care structure. Prerequisite: CHEM 1033 and 1031, RN status or permission of instructor. (F, S)

4312. **Chronic Illness and Rehabilitation Nursing**  Focus on clients with chronic illness throughout the lifespan. Concepts of gerontology and rehabilitation are integrated. Prerequisites: NRS 3345, NRSP 3355, NRS 3312. (F, S)
4343. Professional Nursing: Community
Concepts of professional nursing practice expanded to the care of families and groups of clients in the community setting. Focuses on change theory, group process strategies and professional/health care issues. Prerequisites: NRS 3345, NRSP 3365, NRS 3343, NRS 3392 and NRSP 3391. (F, S)

4355. Critical Care and Emergency Nursing
The focus of this course is on patients with potentially urgent or emergent healthcare needs which require ongoing assessment, immediate intervention and intensive nursing care. Prerequisites: NRS 3345, NRS 3355, NRS 3334, NRS 3392, and NRSP 3391. (F, S)

4362. Professional Role Development
Concepts of professional socialization, accountability, advocacy, issues and trends which affect the role of the nurse are analyzed and discussed. Corequisites: NRS 4312, NRS 4343. (F, S)

4373. Professional Nursing: Management
Managerial and leadership aspects of the first level nurse manager in a managed care environment are a major focus. Prerequisites: NRS 3345, NRS 3312, NRSP 3355, PSY 3103 and 3101 or SOC 3383 and 3381. (F,S)

4393. Advanced Nutritional Concepts & Therapeutic Interventions
Principles of nutritional support utilized in healthcare, including nutritional assessment, nutrient delivery and implications of disease. Prerequisites: completion of one year of nursing coursework (BSN junior level status), RN licensure, or permission of instructor. (S)

4482. Critical Decision Making and Testing Competencies in Nursing
Further assists nursing students to identify areas for improving critical thinking skills and test taking skills. Will enhance the student's ability to problem solve in providing complex care to individuals, groups, communities and populations. Prerequisites: senior nursing student status or permission of instructor. (F,S)

4543. Health Care Administration
Introduction to the organization, operations and administration of a modern health care environment. Includes an introduction to health care delivery systems, decision-making, and the management functions. Prerequisite: Senior status or graduate student enrolled in a CNHP program or any health related major. (F, S)

Nursing Practicum (NRSP)
(A clinical/laboratory fee will be assessed for each of the following courses):

1222. Fundamentals of Nursing Practicum
Practicum emphasizes the fundamental skills as utilized in maintaining activities of daily living. Prerequisite or corequisite: NRS 1214 or NRS 2314. (F, S)

1243. Clinical Practicum I
Initial medical-surgical and maternal-child health clinical experience for the student making the transition to the RN role. Nursing concepts from Nursing Agency I and Role Development I are applied to clinical practice. Corequisites: NRS 1235 and NRS 1252. (F)

1422. Foundations of Nursing Practice
Practicum emphasizes the fundamental skills of nursing as utilized in maintaining activities of daily living. Prerequisite or corequisite: NRS 1213 or 2314. (F)

2201-2-3. Clinical Practicum: Independent Study
Practicum experience in specific clinical areas determined by student and instructor. Review of clinical nursing care with emphasis on the performance of specific nursing procedures. (D)

2224. Clinical Practicum II
NRS 2215 is implemented. The student applies the nursing process in the care of individuals and families in all stages of the life cycle. Prerequisites: NRS 1235, NRS 1252 and NRSP 1243. (S). An additional fee is assessed for this course for a communication assessment test.

2244. Clinical Practicum III
NRS 2235 is implemented. Refinement of the nursing process in providing care for selected clients. Prerequisites: NRS 2215, NRS 2252 and NRSP 2224; Corequisites: NRS 2235; NRS 2262, and NRS 2272. (F). An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students.

2343. Nursing Care II
Practicum in which the clinical skills associated with the events of childbearing and perioperative care are developed. Prerequisites: NRS 2314 and NRSP 1222. Prerequisite or corequisite: NRS 2334. (S)

3325. Nursing Care III
Practicum in which NRS 3314 is implemented. The student designs and implements care for adults and children in a secondary care setting. Prerequisite or corequisite: NRS 3315. (F)

3355. Nursing Care IV
Practicum in which theory from NRS 3344 is implemented or expanded. The student designs, implements, and evaluates care of individual clients/families in secondary care settings. Prerequisites: NRSP 3325 or prerequisite or corequisite: NRS 3345. (S)

3391. Health Assessment Practicum
Practicum in which the clinical skills associated with NRS 3392 are developed and implemented. The student obtains health histories and performs physical examinations. Pre- or corequisite: NRS 3334, NRS 2343 or permission of the instructor. Prerequisite for LPN-AASN Program: permission of the instructor. Corequisite: NRS 3392. (F, S, SU)

4323. Nursing Care VII
Individualized practicum for registered nurses in which senior level theory and professional course content is implemented, using local and regional health care settings. Prerequisites: RN status. Corequisites or prerequisites: NRS 4362, 4343, and 4312. (S)

4336. Nursing Care V
Practicum in which NRS 4312 and 4343 are implemented. Provision of health promotion, health maintenance, and disease management nursing care in home-based and community-based settings. Prerequisites or corequisites: NRS 4343 and 4312. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students. (F, S)

4363. Nursing Care VIII
Individualized practicum for registered nurses in which senior level theory and professional course content is implemented, using local and regional health care settings. Prerequisites: RN status. Corequisites or prerequisites: NRS 4355 and 4373. (F)

4366. Nursing Care VI
Practicum in which theory from NRS 4355 and NRS 4543 is implemented. Care of clients/families in critical care and emergency care areas of the hospital. Also assumes role of coordinator/manager of client care in acute care setting. Prerequisite or corequisite: NRS 4335 and NRS 4543. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students. (F, S)

4393. Nursing Care Elective
Practicum in which the student selects a clinical experience in an area of interest within a primary, secondary, or tertiary care setting. Prerequisites: Must have completed all Junior level BSN nursing courses and ZOOL 3143. (F, S)
Social Work (SW)

2203. Introduction to Social Work  
Explores the values, knowledge and skill base of empowerment oriented generalist social work practice. Includes historical development and organization of the social welfare system in the United States. (F, S)

2223. Social Problems  
Application of sociological concepts and methods in the analysis of current social problems in the United States, including family and community disorganization, delinquency and crime, mental illness, and intergroup relations. (Cross listed as SOC 2223) (F, S, SU)

3253. Social Work Practice I: Micro Practice  
This is the first course in the practice foundation sequence. The focus is empowerment oriented generalist practice with micro systems (individuals). Prerequisites: SW 2203, BIOL 1003, and BIOL 1001, SW 3303, or taken concurrently. (S)

3303. Human Behavior and Social Environment I  
Physical, psychological, social growth and development, across the life span. For social workers. Prerequisite: SW 2203. (F)

3313. Introduction to Child Welfare  
Policies and practices in the field of child welfare with emphasis on the needs of children and their families, the major programs designed for them, and issues for future planning. (F)

3323. Substance Abuse: Intervention and Treatment  
Historical review of drug and alcohol problems, with an analysis of treatment modalities, theories of substance abuse, prevention and education strategies, and social policy implications. (SU, D)

3333. Human Behavior in the Social Environment II  
This course is continuation of the HBSE I course. It focuses on the macro aspect of the human behavior in the areas of groups, institutions and organizations. Its purpose is to explore the behavior, influence, and interactions of these entities and their impact on social work practice. Prerequisite: SW 3303 (S and on demand)

3343. Child Abuse and Neglect  
Survey of theory and research of child abuse and neglect with emphasis on assessment and treatment of these problems. Prerequisite: SW 2203 or permission of the instructor. (S)

3353. Social Work with the Aging  
Study of the problems of older Americans together with a description of social programs serving the aged; learning social work skills in dealing with individual clients. Prerequisite: SW 2203 or permission of the instructor. (F)

4263. Social Work Practice II: Mezzo Systems  
This is the second course in the practice foundation sequence. The focus is generalist practice with mezzo systems (families and small groups). Prerequisite: SW 3253. Open only to seniors. To be taken concurrently with SW 4273. (F)

4273. Field Experience I  
Directed study and practice with clients in social welfare agencies. Supervision provided by faculty and host agency. (Admission only upon acceptance into the Social Work Program). Prerequisites: Must have completed all general education requirements with an overall GPA of 2.5 and 2.5 in major courses. Must have completed SW 3253. Must be taken concurrently with SW 4263. (F)

4283. Field Experience Seminar  
Discussion and sharing of problems encountered in agency settings. A combination of lectures by social work practitioners and class discussion to help students integrate theory and practice. (Admission only upon approval of instructor.) Prerequisite: SW 4263 and SW 4273. To be taken concurrently with SW 4303 and SW 4296. (S)

4296. Field Experience II  
Application and integration of academic content in an actual working experience. Supervision provided by faculty and host agency. (Admission only upon continued acceptance into the Social Work Program.) Prerequisite: Completion of all major requirements except SW 4303 and SW 4283, with an overall GPA of 2.5 and 2.5 in major courses. (S)

4303. Social Work Practice III: Macro Systems  
This is the third course in the practice foundation sequence. The focus is generalist practice with macro systems (organizations, communities) as well as policy practice. Open only to seniors. Prerequisite: SW 4263. To be taken concurrently with SW 4283 and SW 4296. (S)

4313. Social Welfare Policy  
Analytical evaluation of how social welfare policies are formulated and implemented. Prerequisite: SW 3333. (F)

4363. Religion and Spirituality in Social Work Practice  
An examination of religious and spiritual beliefs in psychosocial development, the family, social policy, community and society.

4373. Social Work and Health Care Services  
This course is designed to provide knowledge and understanding of direct social work practice in varied health care settings. Illness, disease, trauma/disability, death and dying are examined from an ecological-systems perspective. Issues of diversity and bioethics are emphasized. (D)

4601-2-3. Special Problems  
Individually directed problems in Social Work. Must be arranged with the professor and approved by department chair. (TBA)
Mission

The College of Sciences and Mathematics prepares students to assume their places as knowledgeable, ethical, and problem-solving leaders by providing foundational and advanced studies in the natural sciences, mathematics, computer science and statistics. A partnership among students, staff, and the faculty anchors the mission of the College of Sciences and Mathematics to expand and disseminate knowledge. The research, scholarship, creative endeavors, and professional activities of this College are intrinsically valuable, fundamental to teaching and learning throughout the University, and beneficial to the Mississippi River Delta and beyond.

The College of Sciences and Mathematics provides to all Arkansas State University students the foundation on which all higher education stands: the mathematics and the sciences. Accordingly, the College acknowledges its responsibility and is actively committed to:

- freedom of thought, inquiry and expression;
- supporting and rewarding the research, scholarship, creative endeavors, and professional activities of our faculty, staff and students;
- supporting and rewarding effective teaching, and bettering ourselves as teachers;
- recruiting, training and retaining a highly-skilled and professional staff;
- providing the finest possible research and teaching facilities, beginning with the library, and including computer, classroom and laboratory technology.

Moreover, the College of Sciences and Mathematics recognizes its responsibility to carry out these commitments in an environment that:

- promotes education of students to their fullest potential for their varied roles as members of local, national and international communities;
- promotes a spirit of community among campus, regional, national, and international constituencies;
- promotes diversity, ensures opportunities, and values honesty, respect, trust, and civility among students, staff, and the faculty.

Programs of Study

The College of Sciences and Mathematics provides Arkansas State University students with general education courses which provide the foundation for all majors and professional degrees. These include traditional studies in the mathematics and the natural and physical sciences upon which the structure of higher education is built.

The College of Sciences and Mathematics offers a wide-range of undergraduate degree programs including a Bachelor of Arts in Chemistry, and in Computer Science, a Bachelor of Science in Biology, and in Wildlife Ecology and Management, Chemistry, Physics, Computer Science and Mathematics; and a Bachelor of Science in Education in General Science (Biology, Chemistry, or Physics) and in Mathematics. The college also offers a variety of pre-professional programs tailored to advanced study. Most degree programs offer minors as well.

The College of Sciences and Mathematics grants a full-range of masters’ degree (M.A., M.S., M.P.A., and M.S.E.) programs, several Educational Specialist degree (Ed.S.) programs, and one interdisciplinary doctoral degree (Ph.D.) program in Environmental Sciences. For further information, see ASU’s Graduate Bulletin.

The college is comprised of four departments.
- Department of Biological Sciences
- Department of Chemistry and Physics
- Department of Computer Science
- Department of Mathematics and Statistics

College of Sciences & Mathematics
Dr. Greg Phillips, Dean

GRADUATION REQUIREMENT

Bachelor of Science in Education
In addition to meeting the University Requirements for all Baccalaureate Degrees as presented by the University, and the Teacher Education Program Requirements as presented by the College of Education, all candidates for a Bachelor of Science in Education degree in the College of Sciences and Mathematics must also have a minimum grade point average of 2.50 on all work attempted overall, on work in the major field, and, if a transfer student, on all work taken at this institution.

FOREIGN LANGUAGE REQUIREMENT

Bachelor of Arts
All candidates for the Bachelor of Arts degree in the College of Sciences and Mathematics must demonstrate proficiency in a foreign language. This may be done in either of the following ways:

1. By completing the second semester of the intermediate year of foreign language at the college level. Students with no foreign language experience must enroll in the first semester of the freshman year and complete 12 hours of a single language. Students with some proficiency may enroll in the more advanced courses without having received credit for previous courses with the approval of the instructor and the department chair. Students who have completed two years of a single foreign language in high school should enroll in Intermediate Language I. Students who have completed one year of a foreign language in high school should enroll in Elementary Language II. Students with questions about their readiness for these courses should consult a member of the language faculty. (No credit will be awarded for courses waived.)

2. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to completion of the second semester of the intermediate year of a foreign language at the college level.

Bachelor of Science

All students who seek the degree of Bachelor of Science in the College of Sciences and Mathematics must demonstrate proficiency in a foreign language. This may be done in one of the following ways:

1. By completing two years of a single foreign language in high school.

2. By completing the second semester of an elementary foreign language course at the college level. Students with no foreign language experience must enroll in the first semester of the freshman year and complete six hours of a single language. Students who have completed one year of a foreign language in high school should enroll in Elementary Language II (3 hours).

3. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to successful completion of the second semester of the elementary year of a foreign language at the college level.

Department of Biological Sciences

Professor Aldemaro Romero, Chair; Professors Bednarz, Farris, Johnson, McDaniel, Trauth, Wheeler; Associate Professors Bennett, Buchanan, Cooksey, A. Gripp, R. Gripp, Gilmore, Hess; Assistant Professors Christian, Loutsch, McKay, Risch, Srivatsan, Vanderpool; Instructors Huggins, Wilhide

The Department of Biological Sciences serves students desiring to gain a broad background in biology, botany, environmental biology, zoology, or wildlife ecology and management. This preparation qualifies students for professional work in teaching, research, industry, or for graduate study.

Professor Aldemaro Romero, Chair; Professors Bednarz, Farris, Johnson, McDaniel, Trauth, Wheeler; Associate Professors Bennett, Buchanan, Cooksey, A. Gripp, R. Gripp, Gilmore, Hess; Assistant Professors Christian, Loutsch, McKay, Risch, Srivatsan, Vanderpool; Instructors Huggins, Wilhide

The Department of Biological Sciences serves students desiring to gain a broad background in biology, botany, environmental biology, zoology, or wildlife ecology and management. This preparation qualifies students for professional work in teaching, research, industry, or for graduate study.

318
The Bachelor of Science in Education degree or Bachelor of Science degree is awarded to students successfully completing one of the programs described below. These programs are planned for students preparing for careers requiring a broad spectrum in biology or a more specialized area within the biological sciences.

For each laboratory course taken, both the lecture and laboratory portions must be passed before graduation credit is assigned.

**Major in General Science: Biology Emphasis**

**Bachelor of Science in Education**

### General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees 46-49

### Specific General Education Requirements:

**Students with this major must take the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1013</td>
<td>Biology of the Cell</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1021</td>
<td>Laboratory for Biology of the Cell</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1011</td>
<td>Laboratory for General Chemistry</td>
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</tr>
<tr>
<td>HIST 2763</td>
<td>The U.S. Since 1876</td>
<td>3</td>
</tr>
<tr>
<td>OR HIST 2773</td>
<td>The U.S. Since 1876</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1054</td>
<td>Precalculus Mathematics OR MATH 1023 and MATH 1054 (if ACT Math score less than 22)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2013</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCOMM 1033</td>
<td>Introduction to Communication</td>
<td>3</td>
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### Major Requirements:

**Sem. Hrs.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>BIOL 3022</td>
<td>Principles of Ecology</td>
<td>2</td>
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<tr>
<td>BIOL 3121</td>
<td>Laboratory for Principles of Ecology</td>
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<td>BIOL 3013</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3111</td>
<td>Laboratory for Genetics</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 3113</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4011</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4133 and 4131</td>
<td>Cell Biology and Laboratory for Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BOT 1103</td>
<td>Biology of Plants</td>
<td>3</td>
</tr>
<tr>
<td>BOT 1101</td>
<td>Laboratory for Biology of Plants</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1021</td>
<td>Laboratory for General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1023</td>
<td>General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1033</td>
<td>Introduction to Organic and Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1031</td>
<td>Laboratory for Introduction to Organic and Biochemistry</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1003</td>
<td>Environmental Geology AND ENGL 1001</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3723</td>
<td>Introduction to Physical Geography AND PHYS 1103</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1050</td>
<td>Introduction to Space Science AND PHYS 1101</td>
<td>3</td>
</tr>
<tr>
<td>OR PHYS 3333</td>
<td>Astronomy</td>
<td>9</td>
</tr>
<tr>
<td>PHYS 2154</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2064</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2065</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 1043</td>
<td>Biology of Animals</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 1041</td>
<td>Laboratory for Biology of Animals</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>61-63</td>
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</table>

### Professional Education Requirements:

**Sem. Hrs.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 3703</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SRED 2514</td>
<td>Introduction to Secondary Teaching</td>
<td>4</td>
</tr>
<tr>
<td>SEDC 3615</td>
<td>Performance Based Inst. Design</td>
<td>5</td>
</tr>
<tr>
<td>EDSC 4939</td>
<td>Methods and Materials for Teaching Science in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>TETH 4826</td>
<td>Teaching Internship in the Secondary School</td>
<td>12</td>
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<td><strong>Total</strong></td>
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### Additional General Requirements for Teacher Education:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>HILTH 2513</td>
<td>Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<td>3</td>
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</table>

**Total** 143-145
Environmental Biology:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4133 and 4131</td>
<td>Cell Biology and Lab for Cell Biology</td>
</tr>
<tr>
<td>BOT 3101, Plant Taxonomy and Lab for Plant Taxonomy</td>
<td>2</td>
</tr>
<tr>
<td>ZOOL 3101 and 3102, Invertebrate Zoology and Lab for Invertebrate Zoology</td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 3233, Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4243, Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 3102, Comparative Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 3101, Laboratory for Comparative Anatomy</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 3002 and 3001, General Entomology and Lab for General Entomology</td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 3233, Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4243, Biochemistry</td>
<td>3</td>
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</table>

Pre-professional Studies:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOL 4041 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4133 and 4131 Cell Biology and Laboratory for Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4243, Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 3002 and 3012, Comparative Anatomy and Laboratory for Comparative Anatomy AND</td>
<td>4-3</td>
</tr>
<tr>
<td>ZOOL 3101, Animal Physiology and Laboratory for animal Physiology OR</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 3151, 3153, 3161, and 3163, Laboratory for Human Structure and Function I and II</td>
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Electives:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ZOOL 3002, Comparative Anatomy</td>
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<tr>
<td>BIOL 3101, Laboratory for Comparative Anatomy</td>
<td>1</td>
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<tr>
<td>ZOOL 3101, Lab for Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 3002, Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 3001, Animal Physiology</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 4201, Laboratory for Animal Embryology</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 3001, Lab for Animal Embryology</td>
<td>1</td>
</tr>
<tr>
<td>BOT 3101, Laboratory for Animal Embryology</td>
<td>1</td>
</tr>
<tr>
<td>ZOOL 4201 Lab for Animal Anatomy</td>
<td>3</td>
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<tr>
<td>Biological Sciences electives</td>
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</tbody>
</table>

Total 124-130

Major in Wildlife Ecology and Management

Bachelors of Science

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3101, Biology of the Cell</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 1021, Laboratory for Biology of the Cell</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1013, General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1011, Laboratory for General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>MATH 1054, Precalculus Mathematics (or MATH 1023 and MATH 1054 if Math ACT score less than 22)</td>
<td>4</td>
</tr>
</tbody>
</table>

The following are specialized programs within Biology. Students pursuing the following curricula should enroll as Biology majors.

Minor in Biology

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 3101, Biology of the Cell</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 1021, Laboratory for Biology of the Cell</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 3113 and 3111, Genetics and Laboratory for Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4041, Microbiology</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 4133 and 4131, Cell Biology and Laboratory for Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4243, Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 3101, Animal Physiology and Laboratory for animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 3101, Lab for Animal Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21-22

Elective: (6, to be approved by advisor or chair)
Department of Chemistry and Physics

Michael J. Panigot, Interim Chair; Professors Draganjac, Li, Sustich, Wyatt; Associate Professors Burns, Hannigan, Johnson, Kudryashov, Reeve, Zhang; Assistant Professors Dowling, Kennon.

The courses in chemistry and physics are designed to prepare individuals for teaching (Bachelor of Science in Education degree), for employment as chemistry or physics professionals, or for the pursuit of a graduate program (Bachelor of Science degree). The Bachelor of Arts degree in chemistry is designed as a basic program for students who wish to pursue further training as technical librarians, salesmen, writers, translators, patent attorneys, medical doctors, or other allied scientific fields. Sufficient elective hours are provided for concentration in other fields associated with science.

Arkansas State University is on the approved list of the Committee on Professional Training (CPT) of the American Chemical Society. For certification of the completion of CPT standards for the B.S. degree in chemistry, follow the recommended sequence of science and mathematics courses found in the Science and Mathematics section of the bulletin.

The courses in geology are offered as enrichment courses for those who wish to have supplementary training in earth science. These courses are designed to complement all of the other science courses.

Recommended Program for Pre-Chiropractic Students

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>ZOOL 1043</td>
<td>ZOOL 1041</td>
</tr>
<tr>
<td>CHEM 1011</td>
<td>CHEM 1021</td>
</tr>
<tr>
<td>ZOOL 2003</td>
<td>ZOOL 2001</td>
</tr>
<tr>
<td>ZOOL 2001</td>
<td></td>
</tr>
<tr>
<td>Sophomore Year</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Social Sciences/Humanities (3 hrs.)</td>
</tr>
<tr>
<td>CHEM 3103</td>
<td>CHEM 3111</td>
</tr>
<tr>
<td>PHYS 2054</td>
<td>PHYS 3064</td>
</tr>
<tr>
<td>Electives (5 hrs.)</td>
<td>Electives (5 hrs.)</td>
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</table>

Recommended Program for Pre-Respiratory Therapy Students

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>HIST 2763 or HIST 2773 or POSC 2313</td>
<td>MATH 1054 or MATH 2194</td>
</tr>
<tr>
<td>BOT 1103</td>
<td>ZOOL 2003</td>
</tr>
<tr>
<td>BOT 1101</td>
<td>ZOOL 2001</td>
</tr>
<tr>
<td>PHYS 2054</td>
<td></td>
</tr>
<tr>
<td>Sophomore Year</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Society, Government, and Law (3 hrs.)</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>CHEM 1011</td>
</tr>
<tr>
<td></td>
<td>Electives (5 hrs.)</td>
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Recommended Program for Pre-Dental Hygiene Students*

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>BIOL 1011 or ZOOL 1043</td>
<td>ENGS 1093</td>
</tr>
<tr>
<td>BIOL 1021 or ZOOL 1041</td>
<td>CHEM 1013</td>
</tr>
<tr>
<td>BIOL 1021 or ZOOL 1041</td>
<td>CHEM 1021</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>MATH 1103</td>
</tr>
<tr>
<td>HIST 1013</td>
<td>HIST 1023</td>
</tr>
<tr>
<td>Fine Arts (3 hrs.)</td>
<td>Liberal Arts electives (3 hrs.)</td>
</tr>
<tr>
<td>Sophomore Year</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>BIOL 2101</td>
<td>Head Start courses (2 hrs.)</td>
</tr>
<tr>
<td>BIOL 2101</td>
<td>Fine Arts (2 hrs.)</td>
</tr>
<tr>
<td>ENG 2003 or ENGS 1093</td>
<td>MATH 1011</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>PSY 2013</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Sociology and related fields (3 hrs.)</td>
</tr>
<tr>
<td>Liberal Arts electives (2-4 hrs.)</td>
<td></td>
</tr>
</tbody>
</table>

As requirements differ for each dental hygiene program, it is strongly recommended that you see an adviser before scheduling classes. *Meet major requirements for UAMS program.

Recommended Program for Pre-medical and Pre-dental Students

Students interested in Pre-medical or Pre-dental studies with an emphasis on chemistry or physics are advised to pursue either the course of study listed under Major in Chemistry: Pre-professional Studies Emphasis or that listed under Major in Chemistry, Bachelor of Science or that listed under Major in Chemistry, Bachelor of Arts or that listed under Major in Physics, Bachelor of Science.

Major in Chemistry

Bachelor of Science

General Education Requirements:

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
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<td>BIOL 1011</td>
<td>BIOL 1011</td>
</tr>
<tr>
<td>BIOL 1021</td>
<td>BIOL 1021</td>
</tr>
<tr>
<td>ZOOL 1043</td>
<td>ZOOL 1043</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>MATH 1023</td>
</tr>
<tr>
<td>HIST 1013</td>
<td>HIST 1023</td>
</tr>
<tr>
<td>Fine Arts (3 hrs.)</td>
<td>Liberal Arts electives (3 hrs.)</td>
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</table>

Specific General Education Requirements:

Students with this major must take the following:

- CHEM 1013, General Chemistry I
- CHEM 1011, Laboratory for General Chemistry I
- MATH 1054, Precalculus Mathematics
- OR MATH 2204, Calculus I
- BIOL 1013, Biology of the Cell
- BIOL 1021, Laboratory for Biology of the Cell

Language Requirement:

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language (Refer to index for foreign language requirements)</td>
<td>0-6</td>
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</table>

Major Requirements:

<table>
<thead>
<tr>
<th>Major Requirements:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1021, Laboratory for General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1023, General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 2004, Descriptive Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3054, Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3101, Laboratory for Organic Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3103, Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3111, Laboratory for Organic Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3113, Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3154, Physical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3314, Physical Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>
Emphasis Area:  (Select one of the three options):

Chemistry:  

Sem. Hrs.

Geology or Biological Sciences Elective .................................................. 3
Electives ........................................................................................................ 5-15

Environmental:

Sem. Hrs.

GEOL 1003, Environmental/Geology .......................................................... 3
GEOL 1001, Environmental/Geology/Lab ................................................... 1
CHEM 4043, Environmental Chemistry .................................................... 3
CHEM 4063, Geochemistry ........................................................................ 3
Electives ........................................................................................................ 0-8

Pre-professional Studies:

Sem. Hrs.

ZOOL 1043, Principles of Zoology ............................................................... 3
ZOOL 1041, Laboratory for Principles of Zoology ........................................ 1
Biological Sciences Electives ..................................................................... 8
Electives ....................................................................................................... 0-6

Total 12-18

Major in Chemistry  
Bachelor of Arts

General Education Requirements:  

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees .............................................. 46-49

Specific General Education Requirements:

Students with this major must take the following:

CHEM 1013, General Chemistry I
CHEM 1011, Laboratory for General Chemistry I
MATH 1054, Precalculus Mathematics; OR
MATH 2214, Calculus I

Language Requirement:

Sem. Hrs.

Foreign Language (Refer to index for foreign language requirements) .......................................................... 0-12

Major Requirements:

Sem. Hrs.

CHEM 1021, Laboratory for General Chemistry II ....................................... 1
CHEM 1023, General Chemistry II .............................................................. 3
CHEM 2004, Descriptive Inorganic Chemistry ........................................... 4
CHEM 2004, Quantitative Analysis ............................................................. 4
CHEM 3101, Laboratory for Organic Chemistry I ....................................... 1
CHEM 3013, Organic Chemistry I ............................................................... 3
CHEM 3111, Laboratory for Organic Chemistry II .................................... 1
CHEM 3113, Organic Chemistry II .............................................................. 3
CHEM 3154, Physical Chemistry I ............................................................... 4
CHEM 3234, Biochemistry ........................................................................ 4
MATH 2204, Calculus I .............................................................................. 4
PHYS 2054, General Physics I, AND
PHYS 2064 General Physics II, OR
PHYS 2044, General Physics I, OR
PHYS 2044, General Physics II, OR
PHYS 2064, General Physics II ................................................................. 4

** Required only if not taken to satisfy a part of the General Education Requirements 61-65

* American Chemical Society requires PHYS 2044 and PHYS 2044 for certificated degree

Major in General Science: Chemistry Emphasis  
Bachelor of Science in Education

General Education Requirements:  

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees .............................................. 46-49

Specific General Education Requirements:

Students with this major must take the following:

CHEM 1013, General Chemistry I
CHEM 1011, Laboratory for General Chemistry I
HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876

* Required only if not taken to satisfy a part of General Education Requirements 42-46

* American Chemical Society requires PHYS 2044 and PHYS 2044 for certificated degree

Emphasis Area: Pre-pharmacy

Additional Specific General Education Requirement  
ECON 2131, Principles of Macroeconomics ................................................. 3

Electives:  

Sem. Hrs.

Total 17-36

Chemistry: Pre-pharmacy Emphasis

Following is one suggested sequence by which the Freshman and Sophomore year requirements for the Bachelor of Arts degree in Chemistry: Pre-pharmacy Emphasis may be completed. These courses will satisfy the pre-pharmacy requirements for the University of Arkansas for Medical Sciences, College of Pharmacy. A degree is not required for admission to pharmacy school; however, those students who wish to complete the Bachelor of Arts degree should continue with the Junior Year and Senior Year sequence outlined above under Chemistry, Bachelor of Arts. (Refer to index for development courses required for students with lower ACT scores). Students should consult with their adviser for a plan that best meets individual needs.

Freshman Year

Fall Semester

CHEM 1013
CHEM 1011
MATH 1054* OR MATH 2214 OR MATH 2204
ENG 1003
BIOL 1003
BIOL 1001

Spring Semester

CHEM 1021
CHEM 1023
CHEM 1021
MATH 2214 OR MATH 2204
ENG 1013
BIOL 1003
BIOL 1001

General Education Requirement
*May begin with MATH 2214 or MATH 2204 if qualified

Sophomore Year

Fall Semester

CHEM 3103
CHEM 3104
CHEM 3101
PHYS 2064
ECON 2131

Spring Semester

CHEM 3113
CHEM 3111
CHEM 3111
PHYS 2064

General Education Requirements

Major in Chemistry: Pre-pharmacy Emphasis  
Bachelor of Arts in Chemistry

General Education Requirements:  

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees .............................................. 46-49

Specific General Education Requirements:

Students with this major must take the following:

CHEM 1013, General Chemistry I
CHEM 1011, Laboratory for General Chemistry I

* Required only if not taken to satisfy a part of General Education Requirements 42-46

* American Chemical Society requires PHYS 2044 and PHYS 2044 for certificated degree
PSY 2013, Introduction to Psychology

Additional General Requirements for Teacher Education: Sem. Hrs.
HLTH 2513, Principles of Personal Health .................................................. 3
SCOM 1203, Oral Communication ................................................................. 3

Total 126-133

Major in Physics
Bachelor of Science

General Education Requirements: Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees ......................................................................................... 46-49

Specific General Education Requirements:
Students with this major must take the following:
MATH 2204, Calculus
PHYS 2034, University Physics

Foreign Language (Refer to index for foreign language requirements) .................................................. 0-6

Major Requirements: Sem. Hrs.
CS 2182, Programming I ................................................................................. 2
CS 2181, Laboratory for Programming I ............................................................. 1
CHEM 1013, General Chemistry I ..................................................................... 3
CHEM 1011, Laboratory for General Chemistry I ........................................... 1
CHEM 1023, General Chemistry II ................................................................... 3
CHEM 1021, Laboratory for General Chemistry II ......................................... 1
MATH 2214, Calculus II .................................................................................... 4

Total 130-133
Minor in Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1011, Laboratory for General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1013, General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1021, Laboratory for General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1023, General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3010, Laboratory for Organic Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3013, Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3111, Laboratory for Organic Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3113, Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry Electives (Junior-Senior level)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 20

Minor in Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2034, University Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2044, University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3303, Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>
| Physics Electives (Junior-Senior level, excluding PHYS 3133) | 6 | Total 17

BACHELOR OF SCIENCE IN FORENSIC SCIENCE

The Bachelor of Science in Forensic Science is a cross-disciplinary degree featuring courses in the College of Science and Mathematics and the College of Humanities and Social Sciences. The program provides students with the laboratory skills and knowledge in the sciences that will allow them to compete regionally and nationally for positions in forensic laboratories.

The degree requires 128 hours for graduation, including a core of 22 hours plus an additional 65 hours in the emphasis area: Forensic Chemistry or Forensic Biology. Students are required to complete an internship and will have the opportunity to select electives reflecting their specific interests.

Individuals interested in the program should contact either the Department of Chemistry and Physics or the Department of Criminology, Sociology and Geography for additional information.

Major in Forensic Science

Bachelor of Science

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 3233, Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 3203, Forensic Science Survey</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 2113, Forensic Science Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 2253, Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 2263, Criminal Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 4114-6, Forensic Science Internship/Research</td>
<td>4-6</td>
</tr>
<tr>
<td>BIOL 4141, Microtechniques</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 4142, Lab for Techniques in Electron Microscopy</td>
<td>2</td>
</tr>
</tbody>
</table>

Forensic Chemistry: CHEM 3054, CHEM 4204, CHEM 4224, CHEM 3154

Electives: 23 minimum

CHEM 4243 and 4241, CHEM 4263, ENVIR 4203, FOSC 4271-3, CHEM 4353, CHEM 4254, BIOL 3313 and 3311, ENVIR 4121

Forensic Biology: BIOL 3313 and 3311, CHEM 4243 and 4241, CHEM 4224, BIOL 4123 and 4121

Electives: 23 minimum

BIOL 4014, BIOL 4133 and 4131, BIOL 4272 and 4282, BIOL 4141 and 4142, CHEM 4243 and 4241, CHEM 3054, FOSC 4271-3, ENVIR 4121

Total Electives: 32-38

Total 128

Department of Computer Science

Associate Professor Jeff Jenness, Chair; Associate Professors Hammerand; Assistant Professors Huang, Jiang, Su; Instructors Causey, Smith, Spencer

The course offerings in the department are designed to provide students with the broad background necessary for employment in industry, government, education, or as a basis for graduate study.

Major in Computer Science

Bachelor of Arts

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

Specific General Education Requirements: Students with this major must take the following:

- MATH 1054, Precalculus Mathematics
- PHYS 2054, General Physics I
- PHIL 1103, Introduction to Philosophy

Language Requirement:

Refer to index for foreign language requirements

Major Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

Computer Science Electives (except CS 1043, may include MATH 4533)

- MATH 2183, Discrete Structures
- MATH 2204, Calculus I, or MATH 2143, Business Calculus, or MATH 2194, Survey of Calculus
- STAT 3233, Applied Statistics
- PHIL 3723, Computers, Ethics, and Society

Total 124-127
### Major in Computer Science

**Bachelor of Science**

**General Education Requirements:**
- Refer to index for General Education Curriculum for Baccalaureate Degrees
- Total 46-49

**Specific General Education Requirements:**
- Students with this major must take the following:
  - MATH 2204, Calculus I
  - PHYS 2034, University Physics I
  - MATH 2214, Calculus II
  - PHYS 2044, University Physics II

**Language Requirement:**
- Refer to index for foreign language requirements
- Total 0-6

**Major Requirements:**
- Total 124-127

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2213, Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2214, Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2254, Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>STAT 4453, Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3333, Digital Electronics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2083, Fundamental Physics II OR PHYS 2081, Laboratory for Fundamental Physics II</td>
<td>4</td>
</tr>
<tr>
<td>Science Requirement: one of the following</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1013 and BIOL 1021, Biology of the Cell</td>
<td>1</td>
</tr>
<tr>
<td>BOTT 1113 and BOTT 1101, Biology of Plants</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1013 and CHEM 1011, General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 1043 and ZOOL 1041, Biology of Animals</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 3703, Computers, Ethics, and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives:**
- Total 5-11
- Total 124-127

**Minor in Computer Science**
- Total 18

**Department of Mathematics & Statistics**

Professor Jerry Linnstaedter, Chair; Professor Paulsen; Associate Professors Abernathy, Johnson, Meleşcic, Miao, Smith; Assistant Professors Hall, Ingram

The course offerings in the department are designed to provide students with the broad background necessary for employment in industry, government, education, or as a basis for graduate study.

### Major in Mathematics

**Bachelor of Science**

**General Education Requirements:**
- Refer to index for General Education Curriculum for Baccalaureate Degrees
- Total 46-49

**Specific General Education Requirements:**
- Students with this major must take the following:
  - MATH 2204, Calculus I
  - PHYS 2034, University Physics I OR PHYS 2073, Fundamental Physics I
  - with PHYS 2071, Laboratory for Fundamental Physics I

**Language Requirement:**
- Refer to index for foreign language requirements
- Total 0-6

**Major Requirements:**
- Total 131-135

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>MATH 2213, Programming I AND CS 2181, Laboratory for Programming I</td>
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</tr>
<tr>
<td>MATH 2214, Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2254, Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2343, Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3033, Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4043, Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4553, Advanced Calculus</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2081, Laboratory for Fundamental Physics II</td>
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</tr>
<tr>
<td>PHYS 2083, Fundamental Physics I</td>
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</table>
Minor in Mathematics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2214</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3254</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

Minor in Statistics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 3233</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4453</td>
<td>Probability and Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4463</td>
<td>Probability and Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4473</td>
<td>Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 20

COLLEGE OF SCIENCES AND MATHEMATICS COURSE DESCRIPTIONS

DEPARTMENT OF BIOLOGICAL SCIENCES

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Biology (BIOL) (Special course fee may apply.)

For each laboratory course taken, both the lecture and laboratory portions must be passed before credit for graduation is assigned.

1001. Laboratory for Biological Science Two hours per week. To be taken concurrently with BIOL 1003. (F, S, SU)

1003. Biological Science The major characteristics and processes of life emphasizing the human organism. Promotes understanding of diversity and unity among living organisms with focus on ecological interactions and responsibilities of people within their social/natural environment. Lecture three hours per week. (F, S, SU)

1013. Biology of the Cell An introduction to structures and processes in cells, including cellular evolution, biologically important molecules, organelle structure and function, and cellular energy. Lecture three hours per week. (F, S)

1021. Laboratory for Biology of the Cell Two hours per week. To be taken concurrently with BIOL 1012. (F, S)

1033. Biology of Sex Biological basis of sex and reproduction with an emphasis on humans. Course will provide students with a basic functional understanding of human systems, which will lead to informed decisions regarding sexual and reproductive health. Lecture three hours per week. Prerequisite: None. To be taken concurrently with BIOL 1001. (S)

1043. Plants and People: Shaping the Future Significance of plants and plant products in human life. Course content centers around plants as representative biological organisms, and their role in shaping human society. Lecture three hours per week. To be taken concurrently with BIOL 1001. (F, S)

1063. People and the Environment Major environmental issues facing our society will be covered to equip students to become part of the solution to many environmental challenges confronting us this century. Lecture three hours per week. To be taken concurrently with BIOL 1001. (F, S)

2101. Laboratory for Microbiology for Nursing and Allied Health Two hours per week. To be taken concurrently with BIOL 2103. (Special course fee: $10.00) (F, S, SU)

2103. Microbiology for Nursing and Allied Health Bacteria, viruses, rickettsiae, chlamydiae, molds, yeasts, and protozoans as they relate to human health. Lecture three hours per week. (F, S, SU)

3001. Introduction to Medical and Dental Practices This course introduces students to the diversity of specialty practices within the fields of medicine and dentistry. Prerequisites: BIOL 1013/1021; ZOOL 1043/1041. Enrollment limited to students seeking a career in dentistry, medicine, podiatry, or optometry. Graded pass/fail; credit cannot be applied to degree requirements. (S)

3021. Techniques for Medical Exam Test-Taking This course introduces students to the Medical College Aptitude Test (MCAT). Basic scientific principles and test-taking strategies within the fields of medicine will be covered. Prerequisites: Enrollment limited to students seeking a career in medicine. Graded pass/fail; credit cannot be applied to degree requirements. (S)

3121. Laboratory for Principles of Ecology Two hours per week. To be taken concurrently with BIOL 3122.

3122. Principles of Ecology The relation of plants to environmental factors of soil, climate, and biota. Lecture two hours per week. Prerequisites: BOT 1101 and 1103 and ZOOL 1043 and 1041. (F, S)

3311 Laboratory for Genetics DNA observation, DNA isolation, heredity and variation with applications to bacteria, plants and animals will be investigated in the laboratory. Three hours per week. To be taken concurrently with BIOL 3313. (F, S)

3313. Genetics Heredity and variation with applications to plants and animals. Lecture three hours per week. Prerequisites: BOT 1101 and 1103, and ZOOL 1041 and 1043. (F, S)

3513. Evolution A critical review of evolutionary principles; primarily the neo-Darwinian theory, with comparisons to newly emerging theories. Lecture, selected readings, writings, and group discussions. Prerequisites: BIOL 1001 and 1003. (S - odd)

4001. Laboratory Techniques in Electron Microscopy An introduction to the preparation of biological materials for viewing with the transmission and scanning electron microscope. Emphasis will be placed on preparative techniques that are commonly used in the laboratory. Lecture one hour per week. Prerequisite: eight hours upper-level biology and consent of instructor. (F - even)
4003. Laboratory for Laboratory Techniques in Electron Microscopy Six hours per week. To be taken concurrently with BIOL 4001. (F -even)

4014. Microbiology Morphology, physiology, taxonomy and cultivation of bacteria, viruses, fungi, and protozoans with an emphasis on medically relevant bacteria. Relationship of microorganisms to animals, plants, and the environment. Lecture two hours per week and laboratory four hours per week. Prerequisites: CHEM 1023 and BIOL 1013 or permission of instructor. (F, S, SU-even)

4111. Laboratory for Issues in Human Ecology Two hours per week. To be taken concurrently with BIOL 4112. (SU -odd)

4112. Issues in Human Ecology A broad ecological approach demonstrating problems of modern society such as environmental deterioration, hunger, and resource depletion. Lecture two hours per week. (SU -odd)

4121. Laboratory for Human Genetics Three hours per week. To be taken concurrently with BIOL 4123. (F -even)

4123. Human Genetics Current advances in the understanding of the human genome. Lecture three hours per week. Prerequisite: BIOL 3313. (F -even)

4131. Laboratory for Cell Biology Two hours per week. To be taken concurrently with BIOL 4133. (S)

4133. Cell Biology Organization and activities of cells, with emphasis on the ultrastructure and function of cellular organelles. Lecture three hours per week. Prerequisites: ZOOL 1041, 1043, and CHEM 1023 and 1021. (S)

4141. Microtechnique Methods of killing, fixing, staining, and mounting tissues. Lecture one hour per week. Prerequisites: BOT 1101 and 1103; ZOOL 1041, 1043, and CHEM 2064 or 3103 and 3101. (F -odd)

4142. Laboratory for Microtechnique Four hours per week. To be taken concurrently with BIOL 4141. (F -odd)

4213. Population Genetics This course will investigate the theories describing the temporal nature of the genetic structure of populations. There will be an emphasis on problem solving applying statistical tools. Intended for students entering the disciplines of systematics, conservation, agriculture, and wildlife and fisheries sciences. (S, even years)

4253. Virology The structure, function, and classification of viruses, and their impact on modern society and the biological world. Lecture three hours per week. Prerequisites: BIOL 2103 or BIOL 3913 or BIOL 4012 or BIOL 4133. (F -even)

4271. Laboratory for Immunology Study of classical and current immunology techniques such as ELISA, immuno-electrophoresis and Western Blot analysis. Laboratory 3 hours per week. Prerequisites: BIOL 1013 and CHEM 1013. (F)

4273. Immunology Study of the human immune system. Topics include innate and acquired immunity, complement fixation and disorders of the immune system. Lecture 3 hours per week. Prerequisites: BIOL 1013 and CHEM 1013. (F)

4313. Biospeleology: Life in Darkness This course analyzes the biology of organisms that live in hypogean (subterranean) environments, particularly in cave, phreatic, and karst habitats. That includes a survey of hypogean organisms, their evolution, ecology, and conservation biology. Course prerequisites, at least two of the following: BIOL 3513, Evolution, BIOL 3122, Principles of Ecology, and BIOL 3313, Genetics, and permission of the instructor. (S-even)

4323. Biology of Marine Mammals This course analyzes the biology of marine mammals based on their adaptations to the aquatic environment from evolutionary, anatomical, physiological, and ecological perspectives. Prerequisites will be at least two of the following courses: ZOOL 3002, Comparative Anatomy, ZOOL 4032, Mammalogy, ZOOL 4153, Wildlife Management, BIOL 3122, Principles of Ecology, BIOL 3513, Evolution, and permission of the instructor. (S-odd)

4333. Cell Signaling This course will provide an understanding of key concepts about cellular signaling mechanisms, major signaling pathways identified to date, and about the methods used to study these pathways. Three hours per week during spring semester. Prerequisites: BIOL 1013, Biology of the Cell, or BIOL 4133, Cell Biology, or permission of the instructor. (S-odd)

4343. Pharmacology The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Prerequisites: ZOOL 2003 and 2013 or ZOOL 3153 and 3253, BIOL 4014, and CHEM 4243. (S)

4361. Laboratory for Limnology Two hours per week. To be taken concurrently with BIOL 4363. (F -odd)

4363. Limnology Physicochemical conditions of fresh water, and their effects on aquatic life, including plankton analysis and bottom fauna studies. Lecture three hours per week. Prerequisite: ZOOL 1041 and 1043. (F -odd)

4371. Biological Seminar Conferences, readings, and reports on material relevant to the biological sciences. Required of all department majors. (Open only to biology department majors with 16 hours or more of course work in the subject area.) (F, S, SU)

4373. History of Biological Ideas This course analyzes the history of biological ideas such as evolution, heredity, spontaneous generation, and molecular biology, aimed at a better understanding not only of the historical background of current research but also on how science proceeds. Prerequisites will be at least two of the following courses: BIOL 3513, Evolution, BIOL 3122, Principles of Ecology, and BIOL 3313, Genetics, and permission from the instructor. (F-odd)

4391-2-3. (4 399 1-2-3) Special Problems in Biology (F, S, SU)

4441-2-3 Special Topics in the Biological Sciences Topical or technique driven seminar relating to the biological sciences that will lead to the training of students in a body of work, such as newly developed research technique/approach. Number of credit hours will vary. Prerequisites: consent of the instructor. May be repeated for a total credit of 6 hours. (F,S)

Botany (BOT) (Special course fees may apply.)

For each laboratory course taken, both the lecture and laboratory portions must be passed before credit for graduation is assigned.

1101. Laboratory for Biology of Plants Three hours per week. To be taken concurrently with BOT 1103. (F, S, SU -odd)

1103. Biology of Plants Form, structure, function, and reproduction of plants. Lecture three hours per week. (F, S, SU -odd)

3001. Wild Flowers of Arkansas Identification and conservation of wild flowers in Arkansas, plus studying those that are edible, endangered or rare, poisonous, or may be used in flower gardens. Lecture one hour per week. Open to all majors. (SU -odd/every 4 years)
3011. **Laboratory for Wild Flowers of Arkansas** Two hours per week. To be taken concurrently with BOT 3001. (SU -odd/every 4 years)

3013. **Plant Morphology** Development, structure, and reproduction of plants. Lecture three hours per week. Prerequisites: BOT 1101 and 1103. (F -odd)

3021. **Laboratory for Plant Morphology** Two hours per week. To be taken concurrently with BOT 3013. (F -odd)

3101. **Plant Taxonomy** A taxonomic study of the regional flowering plants and important plant families of North America. Lecture one hour per week. Prerequisites: BOT 1101 and 1103. (S -odd)

3102. **Laboratory for Plant Taxonomy** Four hours per week. To be taken concurrently with BOT 3101. (S - odd)

3113. **Economic Botany** Economic plants and their use by man. Lecture three hours per week. Prerequisites: BOT 1101 and 1103. (SU -even/every 4 years)

3141. **Laboratory for Plant Pathology** Two hours per week. To be taken concurrently with BOT 3142. (S)

3142. **Plant Pathology** Nature, cause, and control of diseases of orchard, garden, and field crops. Lecture two hours per week. Prerequisites: BOT 1101 and 1103. (SU -odd/every 4 years)

4101. **Laboratory for Anatomy of Vascular Plants** Two hours per week. To be taken concurrently with BOT 4102. (SU -odd/every 4 years)

4102. **Anatomy of Vascular Plants** Development and structure of the vascular plants. Lecture two hours per week. Prerequisites: BOT 1101 and 1103. (SU -odd/every 4 years)

4111. **Laboratory for Plant Physiology** Three hours per week. To be taken concurrently with BOT 4113. (S - even)

4113. **Plant Physiology** General principles of conduction, cellular reactions, respiration, growth, photosynthesis, movement, hormones, and metabolism in plants. Lecture three hours per week. Prerequisites: BOT 1101 and 1103; CHEM 2064 or 3103 and 3101. (S -even)

4171. **Laboratory for Wetland Plant Ecology** Two hours per week. To be taken concurrently with BOT 4172. (S -odd)

4172. **Wetland Plant Ecology** A study of plant responses to environmental factors during germination, growth, reproduction, and dormancy. Lecture two hours per week. Prerequisites: BIOL 3121 and 3122 or permission of professor or chair. (S - odd)

4181. **Aquatic Plants** Structure, classification, and ecology of freshwater algae and freshwater aquatic vascular plants. Lecture one hour per week. Prerequisites: BOT 1101 and 1103. (F -even/every 4 years)

4182. **Laboratory for Aquatic Plants** Four hours per week. To be taken concurrently with BOT 4181. (F -even/every 4 years)

4191. **Laboratory for Mycology** Two hours per week. To be taken concurrently with BOT 4192. (F -odd)

4192. **Mycology** Morphology, cytology, genetics, and physiology of fungi. Lecture two hours per week. Prerequisites: BOT 3012 and 3022. (F -odd)

4281. **Laboratory for Medical Mycology** Two hours per week. To be taken concurrently with BOT 4282. (F -even)

4282. **Medical Mycology** Cutaneous, systemic, and opportunistic fungus diseases (mycoses) of man and other animals. Lecture two hours per week. Prerequisites: BOT 1101 and 1103. (F -even)

**Entomology (ENT)**

For each laboratory course taken, both the lecture and laboratory portions must be passed before credit for graduation is assigned.

3001. **Laboratory for General Entomology** Two hours per week. To be taken concurrently with ENT 3003. (F)

3003. **General Entomology** Identification, structure, and life history of the principal insect orders. Lecture three hours per week. Prerequisites: ZOOL 1041 and 1043. (F)

3013. **Economic Entomology** Life history, distribution, and control of injurious insects. Lecture three hours per week. Prerequisites: ZOOL 1041 and 1043. (S)

4001. **Aquatic Entomology** Identification, life histories, and ecology of aquatic anthropods, with emphasis on freshwater insects. For students in wildlife management, fisheries management, aquatic biology, and advanced entomology. Lecture one hour per week. Prerequisites: ENT 3001 and 3003, BIOL 3101 and 3122 or ZOOL 4201 and 4202. (S -odd)

4002. **Laboratory for Aquatic Entomology** Four hours per week. To be taken concurrently with ENT 4001. (S -odd)

4103. **Forensic Entomology** The life history, ecology and behavior of insects and related anthropods and how they affect the interpretation of potential crime scenes. Prerequisite: BIOL 1013 or ZOOL 1043. (F-odd)

**Environmental Biology (ENVR)** (Special course fees may apply.)

For each laboratory course taken, both the lecture and laboratory portions must be passed before credit for graduation is assigned.

4003. **Conservation Biology** Study of global and local biological resources, including the diversity of life, the value of biodiversity, the importance of diversity to humans and human cultures, and interdisciplinary strategies to conserve biological resources. Lecture three hours per week. Prerequisites: BIOL 3122 or permission of instructor. (S -odd)

4101. **Laboratory for Environmental Microbiology** Laboratory and field investigation into the role of microbes in the environment. Two hours per week. To be taken concurrently with ENVR 4103. (S -odd)

4103. **Environmental Microbiology** Study of the physiology and diversity of microorganisms and their role in cycling of nutrients and mineralization of pollutants in the world. Prerequisites: CHEM 1023 and BIOL 2103 or 4012, or BIOL 4133. (S -odd)

4121/5121. **Radiation Safety** Theory and techniques for dealing with radiation and radioactive materials. Required for students wishing to use radioactive materials on campus. Prerequisite: Permission of instructor. (D)

4202. **Legal Aspects of Environmental Management** Policy, law and regulations relating to society's use, management and protection of natural resources. The course will present the differences and similarities between environmental regulation and previous social regulation, and examine the logic behind current regulatory programs. Prerequisite: BIOL 1003 and BIOL 1001 or equivalent. Lecture two hours per week. (S -even)
4203. Environmental Toxicology: Mechanisms and Impacts  Understanding the basic principles behind the study of impacts and the mechanisms of physiological disturbances associated with environmental toxicant exposure to natural systems. Prerequisites: BIOL 4133 and BIOL 4131 or CHEM 4243 or permission of instructor. Lecture three hours per week. Course will be offered Fall semester of even years. (F -even)

4301. Laboratory for Environmental Biology  Field and laboratory exposure to ecological, economic and sociological aspects of management of water, soil and air resources. Content will vary based on current topics of importance in the field of environmental science. Laboratory three hours per week. Prerequisites: BIOL 3122 or ZOOL 4203, ENVR 4203, or permission of instructor. To be taken concurrently with ENVR 4303. (F -odd)

4303. Environmental Biology  Exposure to ecological, economic and sociological aspects of management of water, soil and air resources. Content will vary based on current topics of importance in the field of environmental biology. Lecture three hours per week. Prerequisites: BIOL 3122 or ZOOL 4203, ENVR 4203, or permission of instructor. (F -odd)

Zoology (ZOOL) (Special course fees may apply.) For each laboratory course taken, both the lecture and laboratory portions must be passed before credit for graduation is assigned.

1011. Laboratory for Human Anatomy  Study of the structure of the human body with emphasis on the muscular, skeletal, nervous, and vascular systems. For Radiologic Technology Science majors only. Two hours per week. To be taken concurrently with ZOOL 1013. (F)

1013. Human Anatomy  Study of the structure of the human body with emphasis on the muscular, skeletal, nervous, and vascular systems. For Radiologic Technology Science majors only. Three hours per week. To be taken concurrently with ZOOL 1011. (F)

1021. Laboratory for Human Physiology  Study of the function of the human body with emphasis on the muscular, skeletal, nervous, respiratory, and vascular systems. For Clinical Laboratory Science associate degree majors only. Two hours per week. To be taken concurrently with ZOOL 1021. (S)

1023. Human Physiology  Study of the function of the human body with emphasis on the muscular, skeletal, nervous, respiratory, and vascular systems. For Clinical Laboratory Science associate degree majors only. Three hours per week. To be taken concurrently with ZOOL 1023. (S)

1041. Laboratory for Biology of Animals  Two hours per week. To be taken concurrently with ZOOL 1043. (F, S, SU -even)

1043. Biology of Animals  Fundamentals of modern zoology and a survey of the phyla. Lecture three hours per week. (F, S, SU -even)

2001. Laboratory for Human Anatomy and Physiology I  The behavior of matter with respect to life processes; cells, tissues; functional anatomy of integumentary, skeletal, muscular and nervous systems; cat anatomy; nerve and muscle preparations and recordings. Two hours per week. No prerequisites. To be taken concurrently with ZOOL 2003. (F, S, SU)

2003. Human Anatomy and Physiology I  Introduction to the biology of atoms, molecules; organelles and cellular functions; tissues; functional anatomy of integumentary, skeletal, muscular and central nervous systems; interaction with external environment. Three hours per week. No prerequisites. (F, S, SU)

2011. Laboratory for Human Anatomy and Physiology II  Functional anatomy of the major sense organs, digestive, respiratory, cardiovascular systems; urogenital anatomy, renal function, gamete production, embryogenesis; experiment with autonomic control mechanisms. Two hours per week. Prerequisites: ZOOL 2001, 2003. To be taken concurrently with ZOOL 2013. (F, S, SU)

2013. Human Anatomy and Physiology II  Major sense organs; autonomic nervous system and internal environment; neuro-endocrine control mechanisms; respiratory and cardiovascular functions; oxygen/carbon dioxide transport; liver functions; digestive, renal and reproductive processes. Three hours per week. Prerequisites: ZOOL 2001, 2003. (F, S, SU)

3002. Comparative Anatomy  Chordate morphology, phylogeny, ontogeny, organogas, and homology. Lecture two hours per week. Prerequisites: ZOOL 1041 and 1043. (F)

3012. Laboratory for Comparative Anatomy  Four hours per week. To be taken concurrently with ZOOL 3002. (F)

3122. Invertebrate Zoology  Classification and natural history of representative invertebrates. Lecture two hours per week. Prerequisites: ZOOL 1041 and 1043. (S -even)

3132. Laboratory for Invertebrate Zoology  Four hours per week. To be taken concurrently with ZOOL 3122. (S -even)

3143. Pathophysiology  The physiology of pathological disturbances and inborn errors. Mechanism of disturbance, body compensating efforts, and adaptive responses of man. Lecture three hours per week. Prerequisites: ZOOL 2001, 2003, 2011, and 2013. (Not open to Biological Sciences majors.) (F, S)

3151. Laboratory for Human Structure and Function I  Two hours per week. To be taken concurrently with ZOOL 3153. (F)

3153. Human Structure and Function I  This course covers the structure and function of the human organism. Topics covered include: cellular function, skeletal, muscular and nervous systems. Prerequisites: ZOOL 1043 and 1041; CHEM 1023 and 1021. (F)

3161. Laboratory for Human Structure and Function II  Two hours per week. To be taken concurrently with ZOOL 3163. (S)

3163. Human Structure and Function II  This course covers the structure and function of the human organism. Topics covered include: special senses and endocrine, respiratory, cardiovascular, digestive, urinary, reproductive and integumentary systems. Prerequisites: ZOOL 3153 and 3151. (S)

3201. Laboratory for Animal Physiology  Three hours per week. To be taken concurrently with ZOOL 3203. (S)

3203. Animal Physiology  Chemical, physical, and biological functions of systems, including the study of metabolism and inter-relationships of organ systems to the entire organism. Lecture three hours per week. Prerequisites: ZOOL 1041 and 1043; CHEM 1021 and 1023. (S)
3611. Physical Diagnosis This course provides an introduction to clinical medicine for Pre-medical students by teaching the basics of physical examination. Prerequisite: ZOOL 1043 and 1041. Enrollment limited to Pre-medical students. Graded pass/fail, credit cannot be applied to degree requirements. (F)

3621. Introduction to Pathology This course introduces Pre-medical students to presentation, physical findings, etiology and basic treatment of a number of common diseases and conditions. Prerequisite: ZOOL 1043 and 1041. Enrollment limited to Pre-medical students. Graded pass/fail, credit cannot be applied to degree requirements. (S)

4001. Fishery Biology Identification, ecology, food habits, management, and behavior of fishes. Lecture one hour per week. Prerequisites: ZOOL 1041 and 1043. (SU - even)

4002. Laboratory for Fishery Biology Four hours per week. To be taken concurrently with ZOOL 4001. (SU - even)

4012. Animal Histology Cells and tissues of the organ systems of vertebrates. Lecture two hours per week. Prerequisites: ZOOL 3002 and 3012. (S)

4022. Laboratory for Animal Histology Four hours per week. To be taken concurrently with ZOOL 4012. (S)

4031. Laboratory for Mammalogy Three hours per week. To be taken concurrently with ZOOL 4032. (F - even)

4032. Mammalogy Classification, distribution, structure, ecology, adaptations, and economic importance of mammals. Lecture two hours per week. Prerequisites: ZOOL 1041 and 1043. (F - even)

4042. Applied Aquaculture Field course in which principles of aquaculture are applied within several public and private enterprises. Intended for the student interested in wildlife, fisheries biology, and agriculture. Prerequisites: ZOOL 4001 and 4002. (SU)

4052. Applied Fisheries Field course in which principles are applied within several fisheries management settings. Intended for the Wildlife Ecology and Management Major. Prerequisite: ZOOL 4001. (SU)

4063. Animal Embryology Study of reproduction and development in animals including reproductive systems, gamete formation, fertilization, early cleavage, formation of germ layers, and development of the organ systems. Lecture three hours per week. To be taken concurrently with ZOOL 4071. Prerequisites: ZOOL 1041 and 1043. (S)

4071. Laboratory for Animal Embryology Two hours per week. To be taken concurrently with ZOOL 4063. (S)

4151. Laboratory for Wildlife Management Two hours per week. To be taken concurrently with ZOOL 4153. (F - even)

4153. Wildlife Management The ecology and management of wildlife species and their environment, with emphasis on fish, waterfowl, upland game birds, and mammals. Lecture three hours per week. Prerequisites: ZOOL 1041 and 1043. (F - even)

4161. Laboratory for Mammalian Neurobiology Two hours per week. To be taken concurrently with ZOOL 4163. (F - odd)

4163. Mammalian Neurobiology A detailed study of the mammalian nervous system with particular emphasis on morphological aspects. Lecture three hours per week. Prerequisites: ZOOL 1041 and 1043, or 2001 and 2003, or permission of instructor. (F - odd)

4201. Laboratory for Animal Ecology Two hours per week. To be taken concurrently with ZOOL 4202. (F - odd)

4203. Animal Ecology The relationship of animals to their chemical, physical, and biological environment, and the distribution of animal life. Lecture three hours per week. Prerequisites: BIOL 3121 and 3122. (F - odd)

4222. Parasitology Parasites of vertebrates and plants, with emphasis on protozoan and helminth parasites of man and domestic animals. Lecture two hours per week. Prerequisites: ZOOL 1041 and 1043. (S)

4232. Laboratory for Parasitology Four hours per week. To be taken concurrently with ZOOL 4222. (S)

4241. Laboratory for Ichthyology Two hours per week. To be taken concurrently with ZOOL 4242. (F - even)

4242. Ichthyology Taxonomy, distribution, natural history, and economic importance of fishes, with emphasis on Arkansas species. Lecture two hours per week. Prerequisites: ZOOL 1041 and 1043. (F - even)

4251. Laboratory for Herpetology Two hours per week. To be taken concurrently with ZOOL 4252. (S - even)

4252. Herpetology Collection, identification, classification, distribution, economic importance, and life histories of amphibians and reptiles, with emphasis on Arkansas species. Lecture two hours per week. Prerequisites: ZOOL 1041 and 1043. (S - even)

4261. Laboratory for Ornithology Three hours per week. To be taken concurrently with ZOOL 4263. (S - even)

4263. Ornithology Morphology, physiology, taxonomy, behavior, ecology, natural history, zoogeography, and evolution of birds. Lecture three hours per week. Prerequisites: ZOOL 1041 and 1043. (S - even)

4271. Laboratory for Wildlife Management Investigational Techniques Three hours per week. To be taken concurrently with ZOOL 4273. (S - odd)

4273. Wildlife Management Investigational Techniques Identification of wildlife problems, project design, interpretation and construction of wildlife maps, food habit and census techniques, wildlife populations and habitat analyses, predictive population dynamics, and introduction to modeling and wildlife decision-making procedures. Lecture three hours per week. Prerequisites: ZOOL 1041 and 1043. (S - odd)

4383. Wildlife Program Internship Participation in a professional wildlife educational, management, or research program activity. Internship is arranged by the student and may be a volunteer or paid position. Entails a minimum of 160 work hours. Must be approved by adviser or chair. (F, S, SU)

DEPARTMENT OF CHEMISTRY AND PHYSICS

Chemistry (CHEM) (Special course fees may apply.)

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

1003. Introduction to Chemistry Fundamentals of chemical terms and applications to laboratory studies. Extensive drills on calculations and use of hand-held calculator in problem solving. Recommended for those with no prior study of chemistry. Corequisite: MATH 0003, MATH 0013, or MATH 1023. (F, S, SU)
1011. Laboratory for General Chemistry I  Three hours per week. (Credit for this course is contingent upon earlier or simultaneous completion of CHEM 1013.) (F, S, SU)

1013. General Chemistry I  Study of chemical reactions and equations, periodic relationships, the gaseous state, and the fundamentals of atomic theory, quantum theory, electronic structure, chemical bonding, stoichiometry and thermochernistry. Corequisite: MATH 0013 or MATH 1023. Prerequisite: CHEM 1003 or high school chemistry strongly recommended. (F, S, SU)

1021. Laboratory for General Chemistry II  Three hours per week. Corequisite or prerequisite: CHEM 1023. Prerequisite: CHEM 1011 (Credit for this course is contingent upon earlier or simultaneous completion of CHEM 1023.) (F, S, SU)

1023. General Chemistry II  Study of liquids, solids, solutions and the fundamentals of chemical kinetics, chemical equilibria, acids and bases, thermodynamics, and electrochemistry. Prerequisites: CHEM 1011 and CHEM 1013. (F, S, SU)

1031. Laboratory for Introduction to Organic and Biochemistry  Three hours per week. (Not open to chemistry majors.) Prerequisites: CHEM 1011 and CHEM 1013. Corequisite: CHEM 1033. (F, S, SU)

1033. Introduction to Organic and Biochemistry  Emphasis on applications to body functions. Lecture three hours, laboratory three hours. (Not open to chemistry majors.) Prerequisite: CHEM 1011 and CHEM 1013. (F, S, SU)

2004. Descriptive Inorganic Chemistry  Systematic study of the chemistry of the elements with problem solving using microcomputers. Lecture four hours per week. Prerequisite: CHEM 1021 and 1023. (F)

3054. Quantitative Analysis  Emphasizes quantitative analysis based on wet-chemical methods and modern instrumentation. Topics include statistics, gravimetry, acid-base, redox and complex ion equilibria, absorption spectrophotometry and elemental methods. Lecture two hours, laboratory six hours per week. Prerequisites: CHEM 1021 and 1023. (S)

3101. Laboratory for Organic Chemistry I  Laboratory skills illustrating the principles of Organic Chemistry I. Three hours per week. Corequisite or prerequisite: CHEM 3103 (credit for this course is contingent upon earlier or simultaneous completion of CHEM 3103). (F, S, SU)

3103. Organic Chemistry I  Study of the nomenclature, bonding, preparations and reactions of compounds of carbon, including aliphatic and aromatic hydrocarbons, haloalkanes, alcohols, and ethers. Lecture three hours per week. Prerequisites: CHEM 1023 and CHEM 1021. (F, S, SU)

3111. Laboratory for Organic Chemistry II  Laboratory skills illustrating the principles of Organic Chemistry II. Three hours per week. Prerequisite: CHEM 3101 (credit for this course is contingent upon earlier or simultaneous completion of CHEM 3113). (F, S, SU)

3113. Organic Chemistry II  Continuation of Organic Chemistry I, including the study of phenols, aldehydes, ketones, carboxylic acids and their derivatives, amines, proteins, carbohydrates, lipids and nucleic acids. Spectroscopic methods of structure determination are also presented. Lecture three hours per week. Prerequisite: CHEM 3103. (F, S, SU)

3124. Physical Chemistry I  Systematic, rigorous development of fundamental chemical concepts presented in a unified lecture/laboratory format. Prerequisites: PHYS 2044 or PHYS 2064, and MATH 3254. (F)

3134. Physical Chemistry II  Systematic, rigorous development of fundamental chemical concepts presented in a unified lecture/laboratory format. Prerequisite: CHEM 3124. (S)

3154. Survey of Physical Chemistry  A one-semester course exploring the systematic development of fundamental chemical concepts. Prerequisites: PHYS 2054/2064 or PHYS 2054/2064, MATH 2194 or MATH 2204, CHEM 3113. (S)

4043. Environmental Chemistry  An overview of the chemistry of natural waters, soils, and the atmosphere. Emphasis will be on the chemical and biological agents which affect the quality of the environment. The most commonly used analytical techniques and quality assurance/control procedures will be covered. Prerequisites: CHEM 3103 and CHEM 3101. (F -even)

4053. Geochemistry  An overview of the chemistry of terrestrial materials. Emphasis will be on the chemical processes which formed and have changed the Earth. Prerequisite: CHEM 3104. (S -even)

4204. Inorganic Chemistry  Includes the recent concepts of bonding and molecular structure as well as some of the less common chemistry of the elements. Lecture three hours, laboratory three hours per week. Prerequisites: CHEM 3124. (S)

4224. Instrumentation  Application and operational theories of modern instruments. Laboratory includes use of gas chromatography; infrared, ultraviolet-visible and atomic absorption, spectroscopy, and electrochemical techniques. Lecture two hours, laboratory six hours per week. Prerequisites: CHEM 3054, CHEM 3124. (F)

4232. Chemical Literature  Systematic study of chemical literature and its use in the chemistry profession. (S)

4241. Laboratory for Biochemistry  Experiments aimed to acquaint the student with problems and more important methods of biochemical research. Laboratory three hours per week. Corequisite: CHEM 4243. (F)

4243. Biochemistry  Presentation of the important areas of modern biochemistry and a description of methods commonly employed in biochemical research. Lecture three hours per week. Prerequisites: CHEM 3113 and 3111. (F)

4254. Fundamentals of Mass Spectrometry  Special topics in spectrochemical analysis. Atomic and molecular spectrometry, surface analytical methods, and their applications to forensic, environmental, atmospheric, geochemical, and bio-analytical problems. Integrated lecture/laboratory format. Prerequisites enforced: CHEM 3054, CHEM 4224. (S)

4263. Radiochemical Techniques  Radioactivity and its uses as related to chemical, physical, and geological problems. Lecture two hours, laboratory three hours per week. Prerequisites: CHEM 3124. (F -odd)

4271-2. Research in Chemistry  Directed study in some specialized phase of chemistry designed to provide experience in independent investigations. Prerequisite: permission of the Chemistry Department's Independent Studies Committee. (F, S, SU)

4281. Chemistry Seminar  Critical discussion, preparation, and presentation of papers on current topics in chemistry. Chemistry majors are required to take this course in their senior year. Prerequisite: CHEM 4232. (F, S)

4343. Pharmacology  The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Prerequisites: ZOOL 2003 and 2013 or ZOOL 3153 and 3253, BIOL 4014, and CHEM 4243. (S)

4353. Advanced Analytical Chemistry  A discussion of principles and methods of application of analytical chemistry to problems of analysis and the significance of data. Prerequisite: CHEM 3054. (F -even)
Forensic Science (FOSC) (Special course fees may apply.)

2013. Forensic Science Survey An overview of forensic science including techniques in crime scene investigation, physical evidence collection and analysis, and expert testimony. (F)

2113. Forensic Science Professional Practice Introduction of ethics and methods of forensic science from the perspective of practicing professionals including case studies and seminars. Prerequisite: FOSC 2013. (S)

4114-6. Practical Training in Forensic Science Directed study or crime laboratory internship in some specialized field of forensic science designed to provide experience and practical training in forensic chemistry and/or forensic biology. Prerequisite: permission of the Forensic Science Internship Coordinator. (F, S, Su)

4271-3. Special Problems in Forensic Science Topical or technique driven seminars relating to the forensic sciences that will lead to the training of students in a body of work, such as newly developed research technique/approach. Number of credit hours will vary. May be taken for a maximum of 3 hours. Prerequisite: Permission of the instructor. (F, S, Su)

General Science (GSP) (Special course fees may apply.)

3203. Science in the Elementary Classroom Gives elementary school teachers an overall view of the role of science in the development of modern civilization, and enables elementary teachers to properly direct the learning activities of pupils in the science classes of the elementary school. Prerequisites: BIOL 1001, 1003, and PHSC 1203 and 1201. (F, S, SU)

3213. Glassworking Manipulation of solid glass rods and glass tubing into finished products, including the making of novelty glass items; and the building and repairing of scientific glassware. (D)

Geology (GEOL)

1001. Environmental Geology Laboratory Two hours per week. Laboratory exercises in environmental aspects of the geosciences. To be taken concurrently with GEOL 1003.

1003. Environmental Geology A survey of fundamental geologic processes and associated hazards (earthquakes, volcanic eruptions, floods, etc.) and the interactions of humans with the environment. Lecture three hours. Prerequisite: MATH 0013 or ACT Mathematics score of 16. (F, S)

1014. Historical Geology History and sequence of development of the earth and its inhabitants, including an introduction to the taxonomy and morphology of common fossils from plant and animal kingdoms. Lecture three hours, laboratory two hours per week. (S)

4331. Hydrogeology Laboratory Laboratory associated with GEOL 4333. Three hours per week. Corequisite: GEOL 4333. (S)

4333/5333. Hydrogeology A discussion of the hydrologic cycle with emphasis on groundwater occurrence and flow. Topics addressed include precipitation and groundwater recharge, aquifer characteristics, well production and well tests, regional flow, groundwater contamination and monitoring, and groundwater geology and geography. Corequisite: CHEM 1021, CHEM 1023, GEOL 1001 and GEOL 1003.

Physical Science (PHSC) (Special course fees may apply.)

1201. Laboratory for Physical Science Two hours per week. To be taken concurrently with PHSC 1203. (F, S, SU)

1203. Physical Science The relationship of man to his physical world; content of the course is centered on the development of our modern concepts about matter and energy and how this development is related to the social order of which man is a part. Lecture three hours. (This course does not satisfy science certification for secondary school teachers. It is not accepted as a major requirement in any natural science field.) To be taken concurrently with PHSC 1201. Prerequisite: MATH 0013 or ACT Mathematics score of 16. (F, S, SU)

Physics (PHYS) (Special course fees may apply.)

1101. Laboratory for Introduction to Space Science Two hours per week. To be taken concurrently with PHYS 1103. (F, S)

1103. Introduction to Space Science A survey of the basic principles of science with emphasis on physics through their application to man's study about his place in the cosmos. Lecture three hours. To be taken concurrently with PHYS 1101. (This course will meet the general education requirements for physical science.) Prerequisite: MATH 0013 or ACT Math score of 16. (F, S)

2034. University Physics I Basic principles of mechanics, thermodynamics, materials and wave motion utilizing calculus with multimedia computers (at each station) in a unified lecture/lab format. 6 hours per week. Corequisite: MATH 2204. This course may be substituted for PHYS 2053 and 2051. (This course will meet the General Education Requirements for Physical Science.) (F, S, SU)

2044. University Physics II Continuation of PHYS 2034 covering the basic principles of electricity, magnetism, waves, optics and topics from modern physics utilizing calculus with multimedia computers (at each station) in a unified lecture/lab format. 6 hours per week. Corequisite: MATH 2214. Prerequisite: PHYSICS 2034 or 2053 and 2051. This course may be substituted for PHYS 2083 and 2081 or for PHYS 2083 and 2081. (F, S, SU)

2054. General Physics I The essential of mechanics, heat, materials and simple harmonic motion in a unified lecture/laboratory format utilizing multimedia computers at each station. Six hours per week. Corequisite: MATH 2214. Prerequisite: PHYSICS 2034 or 2053 and 2051. (This course will meet the General Education Program requirements for physical science). PHYS 2034 may be substituted. Prerequisite: MATH 1033. (F, S, SU)

2064. General Physics II Continuation of PHYS 2054, the essentials of electricity, magnetism, wave motion, light and modern physics in a unified lecture/laboratory format utilizing multimedia computers at each student station. Six hours per week. (PHYS 2044 may be substituted for this course.) Prerequisite: PHYS 2054 or 2034. (F, S, SU)

2071. Laboratory for Fundamental Physics I Two hours per week. (Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2073). (F, S, SU)

2073. Fundamental Physics I Basic principles of mechanics, special relativity, thermodynamics, and wave motion utilizing calculus. Lecture three hours per week. Students enrolling in this course should enroll in Laboratory for Fundamental Physics I. Corequisite: MATH 2204. (F, S, SU)
2081. **Laboratory for Fundamental Physics II** Two hours per week. Prerequisites: PHYS 2071 and 2073 (Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2083.) (F, S, SU)

2083. **Fundamental Physics II** Continuation of PHYS 2073, covering electricity, magnetism, optics, and modern physics. Lecture three hours per week. Students enrolling in this course should enroll in Laboratory for Fundamental Physics II, Corequisite: PHYS 2214 and PHYS 2071 and 2073. (F, S, SU)

2133. **Survey of Physics for the Health Professions** A survey for introductory mechanics, waves, electricity, magnetism, optics and modern physics with applications for students of the health professions. (SU)

2072. **Thermal Physics** The first and second laws of thermodynamics, the kinetic theory of gases, and an introduction to statistical mechanics. Lecture three hours per week. Corequisite: MATH 3254. Prerequisites: PHYS 2044 or PHYS 2021 and 2083. (D)

2081. **Laboratory for Fundamental Physics II** Two hours per week. Prerequisites: MATH 2214 and PHYS 2044 or PHYS 2021 and 2083. (S -odd)

2171. **Laboratory for Introduction to Programming** Design and use of physical instruments, including data reduction. Laboratory four hours per week. Prerequisites: PHYS 2044 or 2064. (F -odd)

2172. **Physical Instrumentation I** A continuation of PHYS 3272, including advanced data reduction techniques. Laboratory four hours per week. Prerequisites: PHYS 2044 or 2064. (F -odd)

2173. **Physical Instrumentation II** A continuation of PHYS 2071, covering electricity, magnetism, optics and modern physics. Lecture three hours per week. Prerequisites: MATH 2214 and PHYS 2044 or PHYS 2071 and PHYS 2083. (S -odd)

2174. **Fundamental Physics I** Continuation of PHYS 2071, covering electricity, magnetism, optics, and modern physics. Lecture three hours per week. Prerequisites: MATH 2214 and PHYS 2044 or PHYS 2071 and PHYS 2083. (F -odd)

3052. **Relativity** Quantitative introduction to the special theory of relativity with a brief qualitative introduction to general relativity. Prerequisites: PHYS 2044 or 2064. (F -even)

3102. **Thermal Physics** The first and second laws of thermodynamics, the kinetic theory of gases, and an introduction to statistical mechanics. Lecture three hours per week. Corequisite: MATH 3254. Prerequisites: PHYS 2044 or PHYS 2021 and 2083. (D)

3113. **Astronomy** Theories of the origin, development, present state, and future of the universe, with special emphasis on the place of astronomy in man's cultural and scientific development. (F, S, SU)

3133. **Electrostatics, Electric and Magnetic Properties of Materials, Ampere's and Faraday's Laws, and Maxwell's Equations** Lecture three hours per week. Prerequisites: MATH 2214 and PHYS 2044 or PHYS 2021 and 2083. (D)

3200. **Electromagnetic Theory** Electrostatics, electric and magnetic properties of materials, Ampere's and Faraday's laws, and Maxwell's equations. Lecture three hours per week. Prerequisites: MATH 2214 and PHYS 2044 or PHYS 2021 and 2083. (S)

3253. **Optics** Geometrical optics and physical optics, including interference, diffraction, dispersion, absorption, and polarization of light. Lecture three hours per week. Prerequisites: MATH 2214 and PHYS 2044 or PHYS 2021 and 2083. (S -odd)

3272. **Physical Instrumentation I** Design and use of physical instruments, including data reduction. Laboratory four hours per week. Prerequisites: PHYS 2044 or PHYS 2064. (F -odd)

3281. **Physical Instrumentation II** A continuation of PHYS 2071, covering electricity, magnetism, optics and modern physics. Lecture three hours per week. Prerequisites: MATH 2214 and PHYS 2044 or PHYS 2071 and PHYS 2083. (S -odd)

4903. **Introduction to Computers** Applications of computers for general university course work. Elementary operating system usage, creation of data files, spreadsheets for mathematical and scientific data, Internet usage. Corequisite: MATH 0013. (F, S, SU)

4921. **Advanced Physics Laboratory I** Continuation of PHYS 4432, including individual student projects. Laboratory four hours per week. Prerequisite: PHYS 2044 or 2064. (S -odd)

4922. **Advanced Physics Laboratory II** Continuation of PHYS 4432, including individual student projects. Laboratory four hours per week. Prerequisite: PHYS 2044 or 2064. (S -odd)

4963. **Advanced Mechanics** The Lagrangian and Hamiltonian formulations, rigid body mechanics, and special relativity. Prerequisite: PHYS 3153. (S)

4513. **Advanced Electromagnetic Theory** Maxwell's equations as applied to waveguides, radiation, and wave propagation in various media. Lecture three hours per week. Prerequisite: PHYS 3203. (F)

4532. **Solid State Physics** Introductory study of the structure and physical properties of crystalline solids, including X-ray diffraction, specific heats, free electron theory, and band approximation. Lecture three hours per week. Prerequisite: 20 hours of physics. (D)

4553. **Principles of Quantum Mechanics** Solutions of the Schrodinger wave equation, including the harmonic oscillator, the hydrogen atom, and perturbation theory, and associated topics. Lecture three hours per week. Prerequisite: 20 hours of physics. (S -even)

4571. **Physics Seminar** Prerequisite: Fourteen hours of physics. (D)

4591-2-3. **Research in Physics** Prerequisite: Fourteen hours of physics. (D)

4693. **Research in Physics-Capstone** Students will conduct research with a physics faculty member, write a paper and present a talk on their research, and take an exit exam. Physics majors are required to take this course in their senior year. Prerequisite: Twenty hours of Physics. (F, S)

DEPARTMENT OF COMPUTER SCIENCE

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

**Computer Science (CS)**

1043. **Introduction to Computers** Applications of computers for general university course work. Elementary operating system usage, creation of data files, spreadsheets for mathematical and scientific data, Internet usage. Corequisite: MATH 0013. (F, S, SU)

2171. **Laboratory for Introduction to Programming** Two hours per week. Corequisite: CS 2173.

2173. **Introduction to Programming** Introduction to operating systems, programming and simple data structures. Emphasis will be placed on construction of programs. Prerequisite: MATH 1023 or equivalent. Corequisite: CS 2171. (F, S)

2181. **Laboratory for Structured Programming** Two hours per week. Corequisite: CS 2183.

2183. **Structured Programming** First course in programming, emphasis on programming methodology, procedural abstraction, and top-down design. Introduction to string processing, file input/output, recursion, and simple data structures. Prerequisite: MATH 1023 or equivalent. Corequisite: CS 2181. (F, S)

2191. **Laboratory for Object-Oriented Programming** Two hours per week. Corequisite: 2193.
351. **Computer Science Seminar** Critical discussion and presentation of papers on current topics in computer science. The prerequisites will vary according to the topic selected, but all students must have taken CS 3363. (D)

353. **Software Engineering II** Continuation of Software Engineering I. Projects will provide team programming experience. Prerequisite: CS 4523. (S)

4541-3. **Internship** Supervised work experience participating in application system development in a business/manufacturing environment. Grade earned will be pass or fail. Prerequisites: Permission of the Computer Science faculty and CS 3363. (D)

4571-2-3. **Special Problems in Computer Science** Individual problems or topics in computer science arranged in consultation with the instructor (Must be approved by the department.) Prerequisite: CS 3363. (D)

4583. **UNIX Systems Programming** System-level programming in UNIX systems. Prerequisite: CS 3363. (S -odd)

4703. **Analysis of Algorithms** Analysis of space and time requirements of algorithms. Worst-case and average-case studies. Greedy algorithms and divide-and-conquer algorithms. Tractable and intractable algorithms. Prerequisites: CS 3363 and MATH 2214. (F -odd)

4793. **Compilers** Techniques for construction of compilers. BNF and EBNF representations. Lexical, syntactic and semantic analysis. Top-down and bottom-up parsing. Run-time systems and code generation. Prerequisite: CS 3363. (S -even)

DEPARTMENT OF MATHEMATICS AND STATISTICS

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The University reserves the right to change course scheduling when circumstances dictate such changes.

**Mathematics (MATH)**

0003. **Developmental Algebra** (Credit not applicable toward a degree.) Real numbers, inequalities, linear equations, exponents, polynomials, and rational expressions. A grade of "C" or better must be made in this course before enrolling in MATH 0013. Prerequisite: MATH ACT of 16. (F, S, SU)

0013. **Intermediate Algebra** (Credit not applicable toward a degree) Exponents, radicals, polynomials, rational expressions, linear equations, functions, graphs, factoring, introduction to quadratic equations, and related topics. A grade of "C" or better must be made in this course before enrolling in MATH 1023, or MATH 1054. Prerequisite: High School Algebra I and math ACT of 17 or 18, or a "C" or better in MATH 0003. (F, S, SU)

1023. **College Algebra** Equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, matrices, and miscellaneous topics. (No credit given if taken following MATH 1054.) Prerequisite: High School Algebra II and score of 19 or above on math ACT or 590 or above on SAT, or a grade of "C" or better in MATH 0013. (F, S, SU)

1033. **Plane Trigonometry** Right triangles and similar triangles, trigonometric ratios, degrees, and radians, trigonometric functions, circular functions, trigonometric identities, inverse trigonometric functions, trigonometric equations. Law of Sines, Law of Cosines, vectors, polar coordinates, and complex numbers. (No credit given if taken following MATH 1054.) Prerequisite: High School Algebra II and score of 19 or above on math ACT or 590 or above on SAT, or a grade of "C" or better in MATH 0013 or Corequisite: MATH 1023. (F, S, SU)
1054. **Precalculus Mathematics**  Selected topics from algebra, trigonometry, and analytic geometry. Prerequisite: High School Algebra II and score of 22 or above on math ACT or 630 or above on SAT, or MATH 1023. (F, S, SU)

2113. **Mathematics for School Teachers I**  Sets, logic, and numbers with emphasis on the axiomatic development of the real numbers. (For elementary education majors only) Prerequisite: with a "C" or better in MATH 1023. (This course may not be used to satisfy general education mathematics requirement.) (F, S, SU)

2123. **Mathematics for School Teachers II**  Mathematical systems, elementary algebra, probability and statistics, and geometry with applications. Prerequisite: MATH 2113. (This course may not be used to satisfy general education mathematics requirement.) (F, S, SU)

2143. **Business Calculus**  Exponential functions, mathematics of finance; systems of linear equations, linear inequalities and linear programming; limits, derivatives, and integrals; business calculus applications including marginal analysis, extreme and concavity of functions of one and several variables. (Will not satisfy requirements for mathematics degrees.) Prerequisite: MATH 1023 or MATH 1054 or a mathematics ACT score of 24 or an SAT score of 660. (F, S, SU)

2183. **Discrete Structures**  Topics include sets and functions, partially ordered sets, trees and graphs, algorithms, symbolic logic, Boolean algebra, combinatorics, and probability modeling. Prerequisites: High School Algebra II and score of 22 or above on math ACT of 630 or above on SAT, or MATH 1054. (F, S, SU)

2194. **Survey of Calculus**  Survey of the basic concepts of calculus, including limits, derivatives, exponential and logarithmic functions, integrals, and series and sequences. (Credit will not be given for both MATH 2194 and MATH 2204.) Prerequisites: MATH 1023 or MATH 1054. (S)

2204. **Calculus I**  Limits, derivatives, implicit differentiation, applications of the derivative, definite integrals, substitution techniques for integrals, and applications of the integral. Prerequisites: High School Trigonometry and score of 24 or above on math ACT or 660 or above on SAT, or MATH 1023 and MATH 1033 or MATH 1054. (F, S, SU)

2214. **Calculus II**  Inverse trigonometric functions, hyperbolic functions, integration by parts, trigonometric substitution, partial fractions, integral tables, approximating definite integrals, Taylor's Theorem, L'Hopital's Rule, improper integrals, sequences, series, power series, Taylor series, parametric curves, arc length, surface area and polar coordinates. Prerequisite: MATH 2204. (F, S, SU)

3243. **Linear Algebra**  Introduction to vector spaces, with application to matrix theory. Prerequisite: MATH 2214. (S, SU)

3254. **Calculus III**  Vectors, lines, and planes in two and three dimensions, vector-valued functions, space curves, curvature and torsion, partial and directional derivatives, extrema of functions of several variables, optimization problems, double and triple integrals with applications, cylindrical and spherical coordinates, vector fields and line integrals, Green's Theorem and the divergence theorem. Prerequisite: MATH 2214. (F, S, SU)

3273. **Applied Complex Analysis**  Survey of complex analysis with emphasis on developing skills needed for applications. Prerequisite: MATH 3254. (F, even)

3303. **Modern Algebra I**  Introduction to the theory of groups, rings, modules, and vector spaces, with emphasis on applications to the real number system. Prerequisite: MATH 2214. (F)

3323. **Mathematical Modeling**  Construction of mathematical models for use with problems in the mathematical sciences, operations research, engineering and the management and life sciences. Prerequisite: MATH 2214. (S)

3343. **College Geometry**  Geometric transformations and invariants. Prerequisite: MATH 2214. (S, SU)

3353. **History of Mathematics**  Origin and development of modern mathematical concepts. Topics include systems of numeration, algebra, geometry, calculus, and the foundations of the real number system. Prerequisite: MATH 2214. (F, SU -odd)

4403. **Differential Equations**  Topics in the elementary theory of differential equations, including existence theorems. Prerequisite: MATH 3254. (F, S)

4423. **Modern Algebra II**  Continuation of MATH 3303. Prerequisite: MATH 3303. (S)

4513. **Applied Mathematics**  Topics from ordinary and partial differential equations, including existence theorems. Prerequisite: MATH 3254. (F -even)

4533. **Numerical Methods**  Algebraic, transcendental, ordinary and partial differential equations, finite differences, and integral equations. Numerical integration, error analysis, and/or other topics of numerical analysis utilizing high speed computer techniques. Prerequisites: MATH 2214 and CS 2163 or 2183. (F -odd)

4553. **Advanced Calculus I**  The calculus of one and of several variables. Limits, continuity, sequences, differentiation, partial differentiation, integration, and infinite series. Prerequisite: MATH 3254. (F, S, SU -even)

4563. **Advanced Calculus II**  Continuation of MATH 4553. Prerequisite: MATH 4553. (S, SU -even)

4581. **Mathematics Seminar**  Prerequisite: MATH 3303. (D)

4591-2-3. **Special Problems in Mathematics**  Prerequisite: MATH 3303. (D)

**Statistics (STAT)**

3233. **Applied Statistics**  Topics include descriptive statistics, probability, Bayes' Rule, the normal distribution and related sampling distributions, point estimation, interval estimation, hypothesis testing, chi-square goodness-of-fit test, simple linear regression, and analysis of variance. Introductory statistics for students in the biological, physical, social sciences and health professions. Prerequisite: MATH 1023 or equivalent. (F, S, SU)

4453. **Probability and Statistics I**  Probability spaces, random variables, probability distributions, independence, conditioning, probability laws, sampling theory, and associated topics. Prerequisite: MATH 3254. (F)

4463. **Probability and Statistics II**  Point and interval estimation, testing hypothesis, standard statistical tests, correlation and regression, and non-parametric methods. Prerequisite: STAT 4453. (S)

4473. **Data Analysis**  Topics include simple linear regression, multiple linear regression, and analysis of variance (ANOVA). Prerequisite: STAT 3233 or equivalent. (S)
Department of Military Science and Leadership

The faculty of the Department of Military Science at Arkansas State consists of: A Professor of Military Science (usually a Lieutenant Colonel); Three Assistant Professors (usually a Major and two Captains); and Two Instructors (usually a Master Sergeant and a Sergeant First Class). Their tours with the department last from two to three years.

GENERAL INFORMATION

The Army Reserve Officers’ Training Corps (ROTC), is a series of elective college courses, taken in conjunction with a full load of academic courses, which can lead to a commission as a second lieutenant in either the United States Army, United States Army Reserve or the U.S. Army National Guard. Participation in ROTC provides instruction in leadership and management and helps students develop self-discipline, physical stamina, and confidence. The ROTC program augments the University’s objectives by emphasizing academic excellence and the development of personal integrity, honor, and responsibility. Upon commissioning, graduates will serve in the active Army, The United States Army Reserve, or the Army National Guard. Selection for active duty is based on the needs of the service, the individual’s preference, and the individual’s performance record. Almost any branch is available for those commissioned in the reserve forces (barring physical limitations).

ROTC PROGRAM

We have three paths for completion of our program which lead to a commission in the U.S. Army:

1. The first path is completion of both MSL I and MSL II level courses (The Basic Course), followed by completion of the Advanced Program.

2. The second path is completion of any U.S. Armed Forces Basic Training, followed by completion of the Advanced Program.

3. The third path is completion of ROTC Leaders Training Course, followed by completion of the Advanced Program.

The Basic Course

Further defined: Physically able students, male or female, may enroll in the Basic Course without incurring a military obligation. The ROTC Basic Course consists of four courses designed to be taken one each semester during the freshman and sophomore years. No more than two courses may be taken simultaneously without the approval of the Professor of Military Science (PMS). All textbooks are provided at no charge.

U.S. Armed Forces Basic Training

Credit for completion of the basic course is granted for anyone who successfully completes Basic Training in the Army, Air Force, Marine Corps, or the Navy, whether it was active component, guard, or reserve. If Advanced Individual Training is also completed, six hours of elective credit may be available from the university.

Leaders Training Course

The university will grant up to six hours of elective credit for successful completion of the ROTC Leaders Training Course. Course consists of practical experience and instruction in tactical and technical military subjects with emphasis on leadership development. The course is four weeks in length and is conducted at Fort Knox, Kentucky. Students are paid for attendance (about $600), and provided travel to and from campus. Housing, uniforms, and meals are provided at no expense. Students attending the Leaders Training Course do incur a military service obligation.

FINANCIAL ASSISTANCE

1. ROTC Scholarships:
In addition to four-year Army ROTC scholarships which are awarded to high school seniors, two- and three-year Army ROTC scholarships are available to college freshmen and sophomores on a competitive basis. Applicants are judged on their potential and aptitude for military service and are evaluated by an academic board chaired by the Professor of Military Science (PMS). ROTC scholarships cover the cost of university tuition, textbook, laboratory fees, and a subsistence allowance for each school month depending on the number of hours completed by the student. High School students applying for four-year scholarships must have their packets completed by 15 November of their senior year. Three-year and two-year scholarship applications must be completed by the spring semester, prior to the first school year of the scholarship.

2. Subsistence Allowance:
A monthly monetary allowance of $350-$400 for each school month is paid to students enrolled in the Advanced Course. During the ROTC LDAC, the student is paid approximately $700 for the 35 day camp period and provided travel to and from camp. Housing, uniforms, and meals are furnished at no expense to the cadet. The course is conducted at Fort Lewis, Washington.

3. Simultaneous Membership Program (SMP):
Individuals may enroll in the Military Science and Leadership Advanced Course while retaining membership in the Army National Guard or Army Reserve. Those wishing to serve in the Army National Guard or Army Reserve during enrollment in the Military Science and Leadership Advanced Course may do so except in certain cases. In addition to receiving cadet monthly subsistence, these individuals also receive pay (ES or higher, from previously held grade) from their Army National Guard or Army Reserve unit and qualify for the Montgomery GI Bill benefits.
DEPT OF MILITARY SCIENCE AND LEADERSHIP COURSE DESCRIPTIONS

The frequency of course offering is indicated following each course description. If not otherwise indicated, the course will be scheduled for each enrollment period. The university reserves the right to change course scheduling when circumstances dictate such changes.

Military Science and Leadership (MSL)

BASIC COURSES

1011. Foundations of Officership Examines the unique duties and responsibilities of officers. Discuss organization and role of the Army. Review basic life skills pertaining to fitness and communication. Analyze Army values and expected ethical behavior. Also required—leadership lab and optional (but encouraged) participation in 1-hour physical fitness session. (F, S)

1021. Basic Leadership Presents fundamental leadership concepts and doctrine. Practice basic skills that underlie effective problem solving. Apply active listening and feedback skills. Examine factors that influence leader and group effectiveness. Examine the officer experience. Also required—leadership lab and optional participation in 1-hour physical fitness session. (F, S)

2032. Individual Leadership Studies Develops knowledge of self, self-confidence and individual leadership skills. Develop problem solving and critical thinking skills. Apply communication, feedback and conflict resolution skills. Participation in weekend exercises is optional for those students not on ROTC scholarship. Prerequisites: both MSL I courses. (F)

2042. Leadership and Teamwork Focuses on self-development guided by knowledge of self and group processes. Challenges current beliefs, knowledge, and skills. Provides equivalent preparation for the ROTC Advanced Course and the Leaders Training Course. Participation in weekend exercises in optional for those students not contracted. Prerequisites: both MSL I courses. (S)

2102. Military History Special topics in military history. Instructor approval required. Prerequisites: both MSL I courses. (F, S)

2091. Leaders Training Course A four-week summer camp conducted at Fort Knox, Kentucky. The student receives pay. Travel, lodging, and most meal costs are paid by the Army. The environment is rigorous, and in some ways similar to Army Basic Training. Open only to students who have not taken all of the basic course completion requirements, and who pass a physical examination (paid for by ROTC). Completion of basic camp qualifies a student for entry into the Advanced Course. Five different cycles are offered during the summer, but spaces are limited by the Army. Candidates can apply for a space any time during the school year prior to the summer. Arkansas State University will grant up to six hours of elective credit for successful completion of the ROTC Basic Camp. (SU)

ADVANCED COURSES

A prerequisite for entrance into the Advanced Course is completion of the four courses in the Basic Course, or completion of the ROTC Leaders Training Course or completion of Basic Training.

3053. Leadership and Problem Solving Examines basic skills that underlie effective problem solving. Analyze the role officers played in the transition of the Army from Vietnam to the 21st Century. Review the features and execution of the Leadership Development Program. Analyze military missions and plan military operations. Execute squad battle drills. (F)

3063. Leadership and Ethics Probes leader responsibilities that foster an ethical command climate. Develop cadet leadership competencies. Prepare for success at ROTC LDAC. Recognize leader responsibility to accommodate subordinate spiritual needs. Apply principles and techniques of effective written and oral communication. (S)

4073. Leadership and Management Builds on LDAC experience to solve organizational and staff problems. Discuss staff organization, functions, and processes. Analyze counseling responsibilities and methods. Examine principles of subordinate motivation and organizational change. Apply leadership and problem solving principles to a complex case study/simulation. (F)

4083. Officership Capstone course designed to explore topics relevant to second lieutenants entering the Army. Describe legal aspects of decision making and leadership. Analyze the Army organization for operations from the tactical to strategic level. Discuss reporting and Permanent Change of Station (PCS) process. Perform platoon leader actions. Examine leader responsibilities that foster an ethical command climate. (S)

LEADERSHIP DEVELOPMENT

Military Science students are required to participate in a Leadership Laboratory in addition to classroom requirements. Training consists of military drill and ceremonies, field exercises, simulated leadership problems, and familiarization with Army weapons and equipment.

Minor in Military Science and Leadership

A minor in Military Science and Leadership can be granted only to those students who qualify for enrollment in the Advanced Course and subsequent commissioning as an officer in the U.S. Army.

Requirements

\[
\begin{array}{ll}
\text{Sem. Hrs} & \text{Course} \\
1 & MSL 1011, Foundations of Officership \\
1 & MSL 1021, Basic Leadership \\
1 & MSL 2032, Individual Leadership Studies \\
2 & MSL 2042, Leadership and Teamwork \\
6 & MSL 3053, Leadership and Problem Solving \\
3 & MSL 3063, Leadership and Ethics \\
3 & MSL 4073, Leadership and Management \\
3 & MSL 4083, Officership \\
2-3 & Military History Course
\end{array}
\]

TOTAL 20-21 hrs

* Items B and C are the only requirements for students who enter the Advanced Course because they have been credited for the Basic Course by attendance at the Leaders Training Course or Basic Training, thus requiring only a total of 15 hours.
Library and Information Resources

Dr. George C. Grant, Dean of Library Information Resources


PURPOSE

The Dean B. Ellis Library is a teaching library. We are directly involved in advancing the teaching, research and service missions of the university. With the adoption of this mission statement, the role of the library expanded from being a passive location for a collection of books and journals, to providing library faculty who actively teach students how to effectively use information resources. This includes accessing, selecting, evaluating, and using information tools in a variety of formats, including print, multimedia, and electronic. Library and Information Resources courses offer students the opportunity to develop information skills that will help them be successful in other academic courses, make informed decisions, and be productive members of society.

LIBRARY AND INFORMATION RESOURCE COURSE DESCRIPTIONS

LIR 1011. Introduction to Using Electronic Information Resources  Students will learn strategies for effective information research, including: formulating searches; comparing and contrasting electronic and traditional resources; evaluating various tools for quality; and selecting and using appropriate resources. Prerequisite: None. (F, S)

Center for Regional Programs

Verlene Ringgenberg, Dean
Mike Bowman, Director of Compressed Video Network

MISSION STATEMENT

The mission of the Center for Regional Programs is to extend the resources of Arkansas State University to meet educational needs and to provide public service for the citizens. The Center for Regional Programs works closely with the colleges of the university and communities in Arkansas so the resources and programs of Arkansas State University are responsive to the needs of the region and the state. To accomplish this mission, the center provides off-campus credit programs and courses, independent study credit courses, workshops on campus, non-credit courses, and personal enrichment courses for public services.

BACHELOR OF SCIENCE IN COMPUTER APPLICATIONS

The Bachelor of Science degree in Computer Applications is offered at designated off-campus locations. The entire degree may be earned at the designated location. The computer applications degree program was designed to address the increasing emphasis on information processing. Businesses and industries of various sizes employ or contract with individuals who maintain computer systems and who can function as applications programmers. The computer applications program blends business administration theory and practice with the art and science of computer programming to prepare individuals to function in the business or industrial environment. This diversified curriculum allows students to pursue a wide variety of computer-related careers.

ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAMS

Associate in Applied Science degrees are offered in cooperation with Arkansas State University Technical Center which is located at Marked Tree, Arkansas. The degrees earned by students represent a cooperative program between Arkansas State University and Arkansas State University Technical Center. These programs are designed to articulate with Arkansas State University's baccalaureate program in technology; These degree programs are not transferable degrees. A student pursuing one of the degrees in Automotive Services Technology, Business Technology, Digital Electronics or Paramedics will complete the General Education courses from Arkansas State University and the technical courses from Arkansas State University Technical Center. Students who are pursuing these degrees must meet the university admission requirements as outlined in this bulletin.

COMPRESSED VIDEO NETWORK

Arkansas State University offers classes through compressed video interactive television. Compressed video allows for two-way, synchronous interaction between multiple sites, ASU-Beebe, ASU Mountain Home, Mid-South Community College in West Memphis, Arkansas Northeastern College in Blytheville, and Ozarka Technical College in Melbourne participate in day, night, and weekend classes offered by several departments at Arkansas State University-Jonesboro.

ARKANSAS STATE UNIVERSITY DEGREE CENTERS

Arkansas State University has partnerships with five community colleges and one technical college to provide various degrees on those college sites. The Center for Regional Programs is the administering unit for those degree centers. Any questions concerning the following sites may be directed to (870) 972-3052.

East Arkansas Community College degrees offered are B.A. Criminology - B.S. Business Administration - B.S.E. Early Childhood Education (P-4 Level) - B.S.N. Nursing (RN/BSN Trans.) - M.S.E. Curriculum and Instruction - M.S.E. Educational Leadership.
Arkansas Northeastern College (formerly Mississippi County Community College) degrees offered are B.S. Business Administration - B.S. Manufacturing-Industrial Technology - B.S.E. Early Childhood Education (P-4 Level) - B.S.N. Nursing (RN/BSN Trans.) - M.S.E. Curriculum and Instruction - M.S.E. Educational Leadership - M.S.E. Elementary Administration.

Mid-South Community College degrees offered are B.S. Business Administration - B.S.E. Early Childhood Education (P-4 Level) - B.S.N. Nursing (RN/BSN Trans.) - B.S. Radiologic Science - M.B.A. Business - M.S.E. Curriculum and Instruction - M.S.E. Educational Leadership - M.S.N. Nursing.

Arkansas State University-Beebe degrees offered are A.A.S.N. Nursing (LPN/RN Trans.) - B.S. Agriculture - B.S.S. Business Administration - B.S. Clinical Laboratory Science. - B.S. Manufacturing-Industrial Technology - B.S.E. Early Childhood Education (P-4 Level) - B.S.E. Mid-Level Education (4-8) - M.B.A. Business - M.S.E. Curriculum and Instruction - M.S.E. Educational Leadership.

Arkansas State University Mountain Home degrees offered are A.A.S.N. Nursing (LPN/RN Transition) - A.A.S.N. Nursing - B.A. Criminology - B.S. Business Management - B.S. Radiologic Science - B.S.E. Early Childhood Education (P-4 Level) - B.S.E. Mid-Level Education (4-8) - M.B.A. Business - M.S.E. Curriculum and Instruction - M.S.E. Educational Leadership - Ed.S. Educational Leadership.

Ozark Technical College degrees offered are A.A.S.N. Nursing (LPN/RN Transition).

OFF-CAMPUS CREDIT COURSES
Credit courses are offered on an intermittent basis in many communities throughout Arkansas. Course selection is determined by the needs of a community. A limited number of off-campus credit hours may be applied to any given degree. See pages describing degree for specific information.

INDEPENDENT STUDY THROUGH CORRESPONDENCE
The center provides many Independent-Study-Through-Correspondence courses. These courses have been specifically designed to allow students to complete the courses without coming to the campus. If the courses are appropriate to a degree, students may apply 31 semester hours of Independent Study credit toward a baccalaureate degree.

PERSONAL ENRICHMENT
Classes that add value to personal development and provide a cultural outlet to area residents are provided by the Center for Regional Programs.

Bachelor of Science
Major in Computer Applications

General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees

Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2003 and 2013</td>
<td>Principles of Accounting I and II</td>
<td>6</td>
</tr>
<tr>
<td>CA 2000</td>
<td>Introduction to Computing/BASIC</td>
<td>3</td>
</tr>
<tr>
<td>CA 3023</td>
<td>FORTRAN/Programming Applications I</td>
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<tr>
<td>CA 3033</td>
<td>Principles of Computer Electronics</td>
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<td>CA 3043</td>
<td>COBOL/Programming Applications I</td>
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<td>CA 3063</td>
<td>RPG Programming Applications I</td>
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<td>CA 4023</td>
<td>Computer Systems Analysis and Design</td>
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<td>CA 4043</td>
<td>Data/Base Systems Applications</td>
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<td>CA 4053</td>
<td>COBOL/Programming Applications II</td>
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<td>CA 4063</td>
<td>Computer/Organization and Architecture</td>
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<td>CA 4073</td>
<td>Systems Programming Applications</td>
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<td>CA 4083</td>
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<td>ECON 2313 and 2323</td>
<td>Principles of Macroeconomics and Principles of Microeconomics</td>
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<td>ENG 3043</td>
<td>Technical Writing</td>
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<td>MATH 2144</td>
<td>Mathematics with Applications in Business and Economics</td>
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<td>MGMT 3123</td>
<td>Organizational Management</td>
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<td>MGMT 3523</td>
<td>Operations Management</td>
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<tr>
<td>SCOM 3203</td>
<td>Business and Professional Speech Communication</td>
<td>3</td>
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<tr>
<td>STAT 3233</td>
<td>Applied Statistics</td>
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<tr>
<td>TECH 4113</td>
<td>Operations Systems Research</td>
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Total: 67-70

ELECTIVES:

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<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>BUS 1303</td>
<td>Computer Applications for Business</td>
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<tr>
<td>HIST 2763</td>
<td>United States History To 1877</td>
<td>3</td>
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<tr>
<td>HIST 2773</td>
<td>United States History Since 1877</td>
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<td>College Algebra</td>
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<td>PE 1002</td>
<td>Concepts of Fitness</td>
<td>2</td>
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<tr>
<td>BUS 1303</td>
<td>Computer Applications for Business</td>
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</table>

Total: 26-27

*Hours include extensive hands-on laboratory work

Associate in Applied Science
Major in Automotive Service Technology

General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ENG 1003</td>
<td>Composition I</td>
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<tr>
<td>ENG 1013</td>
<td>Composition II</td>
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<tr>
<td>SOC 2213</td>
<td>Principles of Sociology OR</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763</td>
<td>United States History To 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2773</td>
<td>United States History Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>BUS 1303</td>
<td>Computer Applications for Business</td>
<td>3</td>
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Total: 92

Major Requirements: (62 credits required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>AST 1106</td>
<td>Automotive Engine Repair</td>
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<tr>
<td>AST 1206</td>
<td>Automotive Electrical Electronic Systems</td>
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<tr>
<td>MTH 1203</td>
<td>Technical Mathematics (or related lab)</td>
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<tr>
<td>AST 1306</td>
<td>Automotive Suspension and Steering</td>
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<tr>
<td>AST 1408</td>
<td>Automotive Engine Performance</td>
<td>8</td>
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<tr>
<td>AST 1504</td>
<td>Automotive Brake System</td>
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<tr>
<td>AST 2109</td>
<td>Automatic Transmissions/Transaxles</td>
<td>9</td>
</tr>
<tr>
<td>AST 2209</td>
<td>Automotive Manual Drive Train and Axles</td>
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<tr>
<td>CCM 1203</td>
<td>Technical Communications</td>
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<tr>
<td>AST 1606</td>
<td>Automotive Heating and Air Conditioning</td>
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Total: 50

ELECTIVES: (optional - not required)

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<tr>
<td>BUS 1303</td>
<td>Computer Applications for Business</td>
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<tr>
<td>AST 1101</td>
<td>Automotive Service Lab</td>
<td>1</td>
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<tr>
<td>AST 1202</td>
<td>Automotive Service Lab</td>
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</tr>
</tbody>
</table>

Total: 65

Associate in Applied Science
Major in Business Technology

General Education Requirements:

<table>
<thead>
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<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ENG 1003</td>
<td>Composition I</td>
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<tr>
<td>ENG 1013</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Principles of Sociology OR</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>BUS 1303</td>
<td>Computer Applications for Business</td>
<td>3</td>
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Total: 92

Major Requirements: (62 credits required)

<table>
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<th>Course Code</th>
<th>Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>MGMT 3123</td>
<td>Organizational Management</td>
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<tr>
<td>MGMT 3523</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 3203</td>
<td>Business and Professional Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3233</td>
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<td>3</td>
</tr>
<tr>
<td>TECH 4113</td>
<td>Operations Systems Research</td>
<td>3</td>
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</table>

Total: 67-70

ELECTIVES:

<table>
<thead>
<tr>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BUS 1303</td>
<td>Computer Applications for Business</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1013</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Principles of Sociology OR</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Introduction to Psychology</td>
<td>3</td>
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</tbody>
</table>

Total: 92
Data Processing Emphasis:

BUS 1003, Business English .................................................. 3
BUS 1113, Mathematics with Business Applications .......... 3
BUS 1203, Accounting .......................................................... 3
BUS 1563, Administrative Support Procedures OR BUS 1413, Multimedia Applications OR BUS 1133, Accounting OR BUS 1143, Computer Applications for Accounting OR BUS 1383, Microcomputer Spreadsheet Applications OR BUS 1563, Administrative Support Procedures OR BUS 1503, Word Processing OR BUS 1513, Word Processing OR BUS Elective .......................................................... 3

Total 30

Secretarial Emphasis:

BUS 1003, Business English .................................................. 3
BUS 1113, Mathematics with Business Applications .......... 3
BUS 1133, Accounting .......................................................... 3
BUS 1203, Keyboarding .......................................................... 3
BUS 1563, Administrative Support Procedures OR BUS 1503, Word Processing OR BUS 1513, Word Processing OR BUS 1523, Machine Transcription OR BUS 1383, Microcomputer Applications Spreadsheet OR BUS 1373, Microcomputer Applications Database OR BUS 1403, Desktop Publishing OR BUS Elective .......................................................... 3

Total 30

Computerized Accounting Emphasis:

BUS 1003, Business English .................................................. 3
BUS 1113, Mathematics with Business Applications .......... 3
BUS 1123, Accounting .......................................................... 3
BUS 1203, Keyboarding .......................................................... 3
BUS 1563, Administrative Support Procedures OR BUS 1413, Computer Applications for Accounting OR BUS 1383, Microcomputer Applications Spreadsheet OR BUS 1503, Word Processing OR BUS 1503, Word Processing OR BUS Elective .......................................................... 3

Total 30

Associate in Applied Science
Major in Digital Electronic Technology

General Education Requirements:  

ENG 1003, Composition .......................................................... 3
ENG 1013, Composition .......................................................... 3
Natural Science Elective with Lab ............................................. 4
SOSC 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology .................................................. 3
HIST 2763, United States History To 1876 OR HIST 2773, United States History Since 1876 OR PSYC 2103, Introduction to United States Government .................................................. 3
MATH 1023, College Algebra .................................................. 3
PE 1002, Concepts of Fitness .................................................. 2
Fine Arts or Humanities Elective ............................................. 3
BUS 1303, Computer Applications for Business ................. 2

Total 66

Major Requirements:

ELT 2404, PC Troubleshooting and Repair II ......................... 5
ELT 2805, WAN Technologies ................................................ 5
ELT 2415, Fiber Optics ......................................................... 5
ELT 2404, PC Troubleshooting and Repair II ......................... 4
ECT 1303, Electronic Motors and Programmable Controls .... 3
ECT 1333, Programmable Logic Controllers ......................... 3

Total 75

Associate in Applied Science
Major in Paramedics

General Education Requirements:  

ENG 1003, Composition .......................................................... 3
ENG 1013, Composition .......................................................... 3
Natural Science Elective with Lab ............................................. 4
SOSC 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology .................................................. 3
HIST 2763, United States History To 1876 OR HIST 2773, United States History Since 1876 OR PSYC 2103, Introduction to United States Government .................................................. 3
MATH 1023, College Algebra .................................................. 3
PE 1002, Concepts of Fitness .................................................. 2
Fine Arts or Humanities Elective ............................................. 3
BUS 1303, Computer Applications for Business ................. 3

Total 66

Major Requirements:

EHS 1103, Anatomy and Physiology ..................................... 3
EHS 1201, Pre-Hospital .......................................................... 1
EHS 1302, Pharmacology ..................................................... 2
EHS 1306, Preparatory ......................................................... 6
EHS 402, Operations Management ...................................... 2
EHS 1502, First Aid .............................................................. 2
EHS 1601, Clinical ............................................................... 1
EHS 1805, Trauma Management ........................................... 5
EHS 1704, Medical Emergencies .......................................... 4
EHS 1706, Cardiac Emergencies .......................................... 6

Total 27
COMPUTER APPLICATIONS (CA)

3023. Introduction to Computing / Basic A brief survey of electronic computers, their components and functions, number representation, and machine arithmetic. Study of the BASIC programming language, instructions, data types, arithmetic expressions, sequencing, arrays. Emphasis upon programming projects utilizing good programming style, problem solving, flowcharting, algorithm development and simple I/O.

3023. FORTRAN Programming Applications I A study of the FORTRAN programming language, including I/O, arithmetic operations, string processing, internal search and sorting, debugging and testing. Emphasis upon the use of FORTRAN for scientific applications. Prerequisite: CA 2003.

3033. Principles of Computer Electronics A study of the basic operation of digital electronic devices, including many devices, logic, gates, etc. Designed to give the elementary student an appreciation of the functions of digital computers. Prerequisite: MATH 1033 and CA 2003.

3043. COBOL Programming Applications I A study of the COBOL programming language, including I/O, arithmetic operations, assorted techniques for processing data lists. Emphasis upon good programming style for business applications. Prerequisite: CA 2003.

3063. RPG Programming Applications I A study of the RPG programming language with emphasis on its application to a wide variety of routine business problems. Prerequisite: CA 2003.

4013. Seminar in Computer Applications Current topics in computing. Emphasis of course will vary depending upon student needs and recent development in computers. Course will be offered on demand. Prerequisite: permission of instructor and department chair. (May be repeated when topic changes)

4023. Computer Systems Analysis and Design Principles of systems analysis for the design of computer applications. The study of approaches to development of computer-based information systems; information systems planning for the organization, setting objectives and priorities; systems development procedures, project organization. Students will conduct a systems study for a particular case. Prerequisite: CA 3023 or CA 3043.

4043. Data Base Systems Applications Current practices of data base management systems. Includes considerations of data models, data descriptions, file organizations, file security, and data integrity and reliability. Prerequisite: CA 3023 or CA 3043.

4053. COBOL Programming Applications II Advanced study of the COBOL programming language, with emphasis on practical business problems, structured programming techniques, computing efficiency, data structures, subroutines, file design and processing, job control, and program documentation. Prerequisite: CA 3043.
The Faculty (as of October 30, 2005)

TAMMY ANGEL-SULLIVAN, 2002
Temporary Instructor in English
B.A., Arkansas State University
M.A., Arkansas State University

PATRICIA ARANGIE, 1998
Associate Professor of Nursing
B.S.N., Memphis State University
M.S.N., University of Tennessee
Ph.D., University of Memphis

PAUL ARMAH, 1997
Professor of Agricultural Economics
B.Sc., University of Ghana
M.Sc., University College of Wales
Ph.D., University College of Wales

JOSEPH AWIKA, 2004
Temporary Assistant Professor of Chemistry
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M.Sc., University College of Wales
Ph.D., University College of Wales

DAVID AGNEW, 1990
Associate Professor of Agricultural Education
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ROGER W. ABERNATHY, 1985
Associate Professor of Mathematics
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EDWARD ALEXANDER, 1994
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Professor of Chemistry, Physics, and Engineering
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WILLIAM J. ALLEN, 1979
Professor of Art History
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OSABUOHIEN P. AMIENYI, 1989
Professor of Radio-Television
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Professor of History
A.B., University of California—Berkeley
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NANCY EUBANKS BACOT, 1972
Instructor in Teacher Education
B.S., University of Mississippi
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TERRY W. BAGGS, 1992
Assistant Professor of Communication Disorders
B.A., Freed-Hardeman College
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Ph.D., Memphis State University

THOMAS N. BAGLAN, 1980
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Ph.D., Florida State University

DEBORAH L. BAILEY, 1990
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CINDY ALBRIGHT, 1976
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WILLIAM BAKER, 2001
Associate Professor of Plant Science
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B.S., University of Arkansas—Fayetteville
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Ph.D., Texas A&M University

TEMMA BALDUCCI, 2004
Assistant Professor of Art History
B.S., Mississippi State University
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Ph.D. University of Kansas

JERRY BALL, 1990
Professor of English
B.A., Arkansas State University
M.A., Arkansas State University
Ph.D., University of Tennessee

THE Faculty (as of October 30, 2005)

PETER ABANDA, 2005
Temporary Assistant Professor of Chemistry
B.Sc., University of Buea, Cameroon
M.Sc., University of Cape Town, South Africa
Ph.D., Arkansas State University

ROGER W. ABERNATHY, 1985
Associate Professor of Mathematics
B.S., Southeast Missouri State University
M.S., Arkansas State University
Ph.D., Clemson University

HARRIETTE ADAMS, 1996
Instructor in Physical Education
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M.S., Arkansas State University

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M.A., East Carolina University
Ed.D., West Virginia University

DAVID AGNEW, 1990
Associate Professor of Agricultural Education
B.S.A.E., University of Tennessee—Martin
M.Ed., Mississippi State University
Ed.D., Mississippi State University

LARRY AIKMAN, JR., LTC, 2004
Professor of Military Science
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M.S., Arkansas State University

CINDY ALBRIGHT, 1976
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B.S., Northwestern State University
M.Ed., Northwestern State University
Ph.D., Texas Woman’s University

ROY ALDRIDGE, 2000
Assistant Professor of Physical Therapy
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EDWARD ALEXANDER, 1994
Assistant Professor of Music
B.M.E., State College of Arkansas
M.M.E., Arkansas State University

SUSAN DAVIS ALLEN, 2002
Professor of Chemistry, Physics, and Engineering
B.S., Colorado College
Ph.D., University of Southern California

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M.A., University of California—Berkeley
Ph.D., University of California—Davis

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M.A., Northern Illinois University
Ph.D., Bowling Green State University

William Baker, 2001
Associate Professor of Plant Science
and Precision Agriculture
B.S., University of Arkansas—Fayetteville
M.S., University of Arkansas—Fayetteville
Ph.D., Texas A&M University

Terry W. Baggs, 1992
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M.S., University of Arkansas for Medical Sciences
Ph.D., Memphis State University

Thomas N. Baglan, 1980
Professor of Speech Communication
B.A., University of Kentucky
M.A., University of Kentucky
Ph.D., Florida State University

Deborah L. Bailey, 1990
Catalog Librarian
B.A., Morehead State University
M.S.L.S., Clarion University of Pennsylvania

Jeffrey R. Bailey, 1992
Public Services Librarian
B.A., Morehead State University
M.L.S., Clarion University of Pennsylvania

Darlene Baker, 1990
Assistant Professor of Nursing
A.D.N., Arkansas State University
B.S.N., University of Central Arkansas
M.N.Sc., University of Arkansas for Medical Sciences
Ed.D., University of Memphis

Sherry Holbrook Baker, 2004
Temporary Instructor in Music
B.M., University of Kentucky
M.M., Michigan State University

William Baker, 2001
Associate Professor of Plant Science
and Precision Agriculture
B.S., University of Arkansas—Fayetteville
M.S., University of Arkansas—Fayetteville
Ph.D., Texas A&M University

Temma Balducci, 2004
Assistant Professor of Art History
B.S., Mississippi State University
M.A., University of Alabama at Birmingham
Ph.D. University of Kansas

Jerry Ball, 1990
Professor of English
B.A., Arkansas State University
M.A., Arkansas State University
Ph.D., University of Tennessee

The Faculty (as of October 30, 2005)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Education and Institutions</th>
</tr>
</thead>
</table>
| Lisa Ball-Moskal, 2001 | Instructor in Journalism     | B.A., University of Memphis  
M.A., University of Memphis |
| Shannon Banks, 2004  | Temporary Instructor in Teacher Education - Forrest City | B.S., Tougaloo College  
M.S., Arkansas State University |
| Brady Banta, 1997   | Assistant Professor of History | B.S., Missouri Valley College  
M.A., Louisiana State University  
Ph.D., Louisiana State University  
M.L.I.S., Louisiana State University |
| Ronald Barredo, 2005 | Associate Professor of Physical Therapy | B.S., University of the Philippines  
M.A., Trevecca Nazarene University  
Ed.D., Trevecca Nazarene University |
| Neale K. Barbee, 1973 | Professor of Music           | B.S., University of Illinois  
M.Ed., University of Illinois  
Ph.D., University of Illinois |
| Robert C. Baum, 1993 | Associate Professor of Spanish | B.S.E., Northeast Missouri State University  
M.A., University of Missouri—Columbia  
Ph.D., University of Missouri—Columbia |
| James Bednarz, 1993 | Professor of Wildlife Ecology | B.S., New Mexico State University  
M.S., Iowa State University  
Ph.D., University of New Mexico |
| John Beineke, 1999  | Professor of Educational Administration & Secondary Education, and History — Dean, College of Education | B.S., Marion College  
M.A., Ball State University  
Ed.D., Ball State University |
| Bobby D. Bennett, 1991 | Associate Professor of Environmental Biology — Director, Geographic Information System Facility | B.S., Elmhurst College  
Ph.D., Louisiana State University |
| Sandra K. Bevill, 1991 | Associate Professor of Business Systems — Coordinator, COB Internships | B.S.E., Arkansas State University  
M.S.E., Arkansas State University  
Ph.D., University of Mississippi |
| Jerome Biebesheimer, 2000 | Director of The Fowler Center | B.M., University of Iowa—Iowa City  
M.F.A., University of Iowa—Iowa City |
| Dana Bingham, 2004  | Temporary Instructor in Mathematics | B.S.Ed., Arkansas State University  
M.S., Arkansas State University |
| Kristin Bondouillo, 1991 | Associate Professor of Psychology | B.A., West Virginia University  
M.S., Southern Illinois University—Carbondale  
Ph.D., Southern Illinois University—Carbondale |
| Judy Kay Blevins, 2003 | Coordinator of ASU's Paragould Site | B.A., Quachita Baptist University  
M.A., Arkansas State University  
S.G.C.T., Arkansas State University |
| Karen Blue, 1998    | Assistant Professor of Nursing | B.S.N., University of Central Arkansas |
| Doreabonneau, 2005  | Assistant Professor of Special Education | B.S., College of Charleston  
M.Ed., The Citadel  
Ed.D., University of South Carolina |
| Joe David Bonner, 1984 | Assistant Professor of Music | B.A., University of Houston  
M.A., Stephen F. Austin State University |
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AABSTRACT

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EDUCATION

WITH

AN

INTEREST

IN

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SCHOOL

OF

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<td>Ph.D., University of Mississippi</td>
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<tr>
<td>JOHN ROBERTSON, 2000</td>
<td></td>
<td>Assistant Professor of Business Law</td>
<td>B.A., University of Tennessee-Knoxville</td>
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<td>Master of Laws, University of Alabama—Tuscaloosa</td>
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<td>J.D., Vanderbilt University</td>
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<tr>
<td>PATRICIA ROBERTSON, 2005</td>
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<td>Assistant Professor of Business Law</td>
<td>B.A., Vanderbilt University</td>
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<td>D.J., Vanderbilt University</td>
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<td>C. WILLIAM ROE, 2000</td>
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<td>Professor of Management</td>
<td>B.S., Mississippi State University</td>
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<tr>
<td>SUSAN ROEBRIG, 2004</td>
<td></td>
<td>Associate Professor of Physical Therapy</td>
<td>B.S., University of Kentucky</td>
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<td>—Chair, Department of Biological Sciences</td>
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<td>Ph.D., University of Miami</td>
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<td>ANAROMERO, 2003</td>
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<td>DANIEL F. ROSS, 1972</td>
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Program Coordinator
Professor of Finance
Professor of Plant Science/Entomology
Temporary Assistant Professor of Political Science
Temporary Assistant Professor of Political Science
Assistant Professor of Speech Communication
Instructor in Journalism
Instructor in Accounting
Temporary Special Lecturer in Information Systems
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<tr>
<th>Name</th>
<th>Title</th>
<th>Institutions</th>
</tr>
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</table>
| **Ronald W. Towery, 1988**  | Professor of Teacher Education             | B.S., Mississippi State University  
M.A., Mississippi State University  
Ed.D., Mississippi State University |
| **Joy Trauth, 2003**        | Temporary Instructor in Biological Sciences | B.S., University of Arkansas—Fayetteville  
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| **Stanleye Trauth, 1984**   | Professor of Zoology                       | B.S., University of Arkansas—Fayetteville  
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Ph.D., Auburn University |
| **Jannie Huffman Trautwein, 1984** | Instructor in Physical Science  
|                     | —Director, Electron Microscope Facility    | B.S., Henderson State University  
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| **Christy Valentine, 2002** | Instructor in Business Communication      | B.S., Arkansas State University  
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| **Starla Vanderpool, 1994** | Assistant Professor of Botany              | B.Sc., School of the Ozarks  
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Ph.D., University of Oklahoma |
| **Kimberly Vickrey, 1999**  | Associate Professor of Graphic Design      | B.F.A., Delta State University  
M.F.A., University of Memphis |
| **Serio Ruminott Villalobos, 2003** | Temporary Instructor in Spanish  
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Certificate, Universidad Arco—Chile  
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Ph.D., University of Pittsburgh |
| **Debraj Walden, 1988**     | Assistant Professor of Nursing              | B.A., Southwestern at Memphis  
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| **Leah Walker, 2001**       | Temporary Instructor in Engineering        | B.S., Arkansas State University  
M.S., Arkansas State University |
| **Patricia Walls, 2001**    | Assistant Professor of Social Work         | B.A., Arkansas State University  
M.S.W., University of Arkansas—Little Rock  
Ph.D., Jackson State University |
| **Richard Pierce Wang, 1988** | Associate Professor of Political Science  
|                     | —Chair, Department of Political Science    | B.A., State University of New York—Fredonia  
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| **Jim Washam, 1991**        | Associate Professor of Finance             | B.S., Arkansas State University  
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| **Natasha Washington, 2002** | Temporary Instructor in Political Science  | B.A., Quachita Baptist University  
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| **Mitchell Watrous, Jr, 2005** | Assistant Professor of Clinical Lab Sciences | B.S., Roanoke College  
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| **Julie Watson, 2003**      | Temporary Instructor in Agriculture and Coordinator of Equine Center | B.S., Middle Tennessee State University  
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| **Larry Weaver, 2004**      | Temporary Assistant Professor of Physics   | B.S., University of Kansas  
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| **Kelly Weeks, 2001**       | Temporary Instructor in Management         | B.A., Rhodes College  
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| **Dennis W. White, 1974**   | Associate Professor of Speech Communication | B.S.E., University of Arkansas—Fayetteville  
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| **J. Darrell Widick, 1984** | Assistant Professor of Agronomy           | B.S.A., University of Tennessee  
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