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/Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. To that end, the University provides opportunities in employment practices, admission and treatment of students without regard to race, color, religion, age, disability, gender, national origin, or veteran status. ASU complies with all applicable federal and state legislation and does not discriminate on the basis of any unlawful criteria.

Questions regarding this policy should be addressed to the Affirmative Action Program Coordinator, P.O. Box 1500, State University, Arkansas 72467. Telephone (870) 972-3658.

Services for Individuals with Disabilities
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).
ACCREDITATION OF PROGRAMS

Arkansas State University’s academic programs are accredited by the regional accrediting agency for all programs. Individual programs are accredited by specialized accrediting agencies for the respective programs.

The Higher Learning Commission of the North Central Association of Colleges and Schools (HLC)
Thirty North LaSalle, Suite 2400
Chicago, IL 60602
Telephone: (312) 263-0456

Commission on Accreditation of Allied Health Education Programs
35 East Wacker Drive, Suite 1979
Chicago, IL 60601-2208
Telephone: (312) 553-9355
Fax: (312) 553-9616
Email: caahep@caahep.org

American Association of Museums
Commission on Accreditation in Physical Therapy Education (CAPTE)
111 North Fairfax Street
Alexandria, VA 22314
Telephone: (703) 706-3245

Accrediting Council on Education in Journalism and Mass Communications

The Association to Advance Collegiate Schools of Business (AACSB)
600 Emerson Rd., Suite 300
St. Louis, MO 63141
Telephone: (314) 872-8481
Fax: (314) 872-8495

American Psychological Association
Council for American Speech-Language-Hearing Association
Council for Accreditation of Counseling and Related Educational Programs (CACREP)
Council on Rehabilitation Education (CORE)
Council on Social Work Education

Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (ABET)

Joint Review Committee on Education in Diagnostic Medical Sonography
2025 Woodlane Drive
St. Paul, MN 55125-2998
Telephone: (651) 731-1582

Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Dr., Suite 900
Chicago, IL 60606
Telephone: (312) 704-5304

National Accrediting Agency for Clinical Laboratory Sciences
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 on Social Work Education
International Student Exchange
Council on Social Work Education
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 Council on Rehabilitation Education
National League for Nursing
National Student Exchange
North Central Association of Colleges and Schools
Oak Ridge Associated Universities*
Southern Council on Collegiate Education for Nursing
Teacher Education Council of State Colleges and Universities

*Suggested Text for University Catalogs of ORAU Members

Since 2004, students and faculty of Arkansas State University have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 91 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available at http://www.orau.gov/orise/educ.htm, or by calling either of the contacts below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact:
Elizabeth E. Hood
Associate Vice Chancellor for Research
ORAU Councilor for Arkansas State University

Monnie E. Champion
ORAU Corporate Secretary (865-576-3306); or

Visit the ORAU Home Page (http://www.orau.org)
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ACADEMIC CALENDAR 2006-2007

Fall Semester 2006

Orientation for New faculty ........................................... August 14-15 (M-T)
Faculty Conference ............................................................. August 16 (W)
College and Department Faculty Meetings ...................... August 17-18 (R-F)
Residence Halls Open ......................................................... 9:00 a.m. August 19 (Sa)
First Year Convocation ......................................................... August 21 (M)
Last day for Admissions ......................................................... August 21 (M)
Regular Classes Begin ......................................................... August 21 (M)
Late Registration ............................................................... August 21-27 (M-Su)
Saturday Classes Begin ....................................................... August 26 (Sa)
Labor Day Holiday ......................................................... September 4 (M)
Midsemester Exams ......................................................... October 3-9 (T-M)
Midsemester Grades Due ....................................................... 12:00 noon October 11 (W)
Graduating Senior Grades Due .............................................. 10:00 a.m. December 15 (R)
Class Begin.................................................................................... January 8 (M)
Last Day of Class........................................................................... December 15 (F)
Residence Halls Close (for all students not graduating) ....... 12:00 noon December 14 (R)
All Grades Due........................................................................ 12:00 noon December 15 (F)
Commencement ........................................................................ 7:00 p.m. December 15 (F)

Spring Semester 2007

Residence Halls Open ......................................................... 9:00 a.m. January 5 (F)
Last day for Admissions ....................................................... January 8 (M)
Regular Classes Begin ......................................................... January 8 (M)
Late Registration ............................................................... January 8-14 (M-Su)
Saturday Classes Begin ....................................................... January 13 (Sa)
Martin Luther King, Jr’s Birthday Observed (No Classes) ....... January 15 (M)
Midsemester Exams .............................................................. February 20-26 (T-M)
Session II Classes Begin .................................................. February 27 (T)
Midsemester Grades Due ....................................................... 12:00 noon February 28 (W)
Spring Break ............................................................................. March 19-24 (M-Sa)
Comprehensive Exam Results Reported to Graduate School ....... March 30 (F)
Convocation of Scholars ........................................................ April 9-13 (M-F)
Spring Faculty Association Meeting .................................... April 10 (T)
Last Day of Class ............................................................... April 23 (M)
Study Day .................................................................................. April 24 (T)
Final Examinations ............................................................. April 25-May 1 (W-T)
Residence Halls Close (for all students not graduating) ......... 12:00 noon May 2 (W)
All Senior Grades Due ............................................................. 12:00 noon May 3 (R)
All Grades Due ........................................................................ 12:00 noon May 4 (F)
Commencement (See Commencement Web Page) .................. May 5 (Sa)

First Summer Term 2007

Registration ........................................................................... through May 25 (F)
Residence Halls Open ......................................................... 12:00 noon May 27 (Su)
Memorial Day Holiday Observed ........................................... May 28 (M)
Classes Begin ................................................................. May 30 (W)
Comprehensive Exam Results Reported to Graduate School ....... June 8 (F)
Last Day of Class ............................................................... June 28 (R)
Final Examinations ............................................................. June 29 (F)
All Grades Due ........................................................................ 12:00 noon July 3 (T)

Second Summer Term 2007

Registration ........................................................................... through June 29 (F)
Classes Begin ................................................................. July 2 (M)
Independence Day Holiday ................................................. July 4 (W)
Last Day of Class ............................................................... Aug 1 (W)
Final Examinations ............................................................. Aug 2 (R)
Graduating Senior Grades Due ............................................. 10:00 p.m. August 2 (R)
Residence Halls Close (for all students not graduating) ......... 12:00 noon August 3 (F)
Commencement ................................................................. 7:00 p.m. Aug 3 (F)
All Grades Due ........................................................................ 10:00 a.m. August 6 (M)
DEADLINES 2006-2007

Fall Semester 2006
Last Day for Late Registration or for Adding Courses ................. August 27 (Su)
Last Day to Change from Credit to Audit (including Second Session) ..... August 25 (F)
Last Day to Drop or Withdraw without Financial Assessment .......... August 27 (Su)
Last Day to Add or Withdraw by Web ........................................... August 27 (Su)
Last Day to Drop Session I (first 8 weeks) Classes ....................... September 26 (T)
Last Day for Names to be Added to December Graduation List .......... September 29 (F)
Last Day to Add a 2nd Session Course ......................................... October 9 (M)
Last Day to Drop Individual Course(s) ......................................... November 17 (F)
Last Day to Withdraw from the University ................................. November 17 (F)

Spring Semester 2007
Last Day for Late Registration or for Adding Courses ...................... January 14 (Su)
Last Day to Change from Credit to Audit (including Second Session) .. January 12 (F)
Last Day to Drop or Withdraw without Financial Assessment .......... January 14 (Su)
Last Day to Add or Withdraw by Web ........................................... January 14 (Su)
Last Day to Drop Session I (first 8 weeks) Classes ....................... February 13 (T)
Last Day for Names to be Added to May Graduation List ................... February 9 (F)
Last Day to Add a 2nd Session Course ......................................... February 26 (M)
Last Day to Drop Individual Course(s) ......................................... April 11 (W)
Last Day to Withdraw from the University ................................. April 11 (W)

Summer Session 2007 - First Term
Last Day for Late Registration, or for Adding Courses ..................... May 30 (W)
Last Day to Change from Credit to Audit ....................................... May 30 (W)
Last Day to Drop or Withdraw without Financial Assessment .......... May 31 (R)
Last Day to Withdraw by Web ...................................................... May 31 (R)
Last Day to Drop Individual Course(s) ........................................ June 21 (R)
Last Day to Withdraw from the University ................................. June 26 (T)

Summer Session 2007 - Second Term
Last Day for Late Registration, or for Adding Courses ..................... July 2 (M)
Last Day to Change from Credit to Audit ....................................... July 2 (M)
Last Day to Drop or Withdraw without Financial Assessment .......... July 3 (T)
Last Day to Withdraw by Web ...................................................... July 3 (T)
Last Day for Names to be Added to August Graduation List ................ June 8 (F)
Last Day to Drop Individual 10-Week Course ................................... July 23 (M)
Last Day to Drop Individual Course(s) ........................................ July 25 (W)
Last Day to Withdraw from the University ................................. July 30 (M)

Organization of the University

BOARD OF TRUSTEES—2006-2007

Dallas Wood, Paragould ......................................................... January, 2008
Mike Gibson, Osceola .............................................................. January, 2009
Michael Medlock, Jonesboro ..................................................... January, 2010
Florine Toussant Milligan, Forrest City ....................................... January, 2011
Jim Pickens, Little Rock ............................................................ January, 2007

OFFICERS OF THE BOARD—2006-2007

Jim Pickens ...................................................................................... Chair
Mike Gibson ..................................................................................... Vice-Chair
Dallas Wood .................................................................................. Secretary

PRESIDENT OF THE UNIVERSITY

Officers of the University 2006-2007

Executive Officers

J. LESLIE WYATT, 1995
B.A., Abilene Christian University
B.F.A., University of Texas—Austin
M.F.A., University of Texas—Austin
Ph.D., University of Texas—Austin
President of the University
—Professor of Higher Education and Art

LEN FREY, 2000
B.S., Arkansas State University
M.B.A., Arkansas State University
Ph.D., University of Memphis
Dean, College of Business
—Associate Professor of Management

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

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

SUSAN DAVIS ALLEN, 2002 (Oct.)
B.S., Colorado College
Ph.D., University of Southern California
Vice Chancellor for Research and Academic Affairs
-Professor of Chemistry, Physics, and Engineering

JOHN BEINEKE, 1999
B.S., Marion College
M.A., Ball State University
Ed.D., Ball State University
Dean, College of Education
—Professor of Educational Administration and Secondary Education, and History

STEVE OWENS, 1999
B.B.A., University of Mississippi
M.Ed., University of Mississippi
Vice President for University Advancement
—President/CEO ASU Foundation

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

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

STEVE OWENS, 1999
B.B.A., University of Mississippi
M.Ed., University of Mississippi
Vice President for University Advancement
—President/CEO ASU Foundation

GREG PHILLIPS, 2003
B.A., University of Kentucky
Ph.D., University of Kentucky
Dean, College of Agriculture, College of Engineering
and College of Sciences and Mathematics
—Professor of Agriculture

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

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

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

GREG PHILLIPS, 2003
B.A., University of Kentucky
Ph.D., University of Kentucky
Dean, College of Agriculture, College of Engineering
and College of Sciences and Mathematics
—Professor of Agriculture

CAROL O'CONNOR, 2002
B.A., Manhattanville College
Ph.D., Yale University
Dean, College of Fine Arts
—Professor of Art

STEVE OWENS, 1999
B.B.A., University of Mississippi
M.Ed., University of Mississippi
Vice President for University Advancement
—President/CEO ASU Foundation

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

MANISTICKLAND, 1972
B.S.E., Paul Quinn College
M.S.E., Arkansas State University
Ed.D., University College
—Associate Professor of Teacher Education

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

Academic Deans

GREG PHILLIPS, 2003
B.A., University of Kentucky
Ph.D., University of Kentucky
Dean, College of Agriculture, College of Engineering
and College of Sciences and Mathematics
—Professor of Agriculture

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

RICKY C. CLIFFT, 1980
B.S., University of Arkansas - Fayetteville
M.S., University of Arkansas - Fayetteville
Ph.D., University of Houston
Associate Dean, College of Engineering
—Professor of Civil and Environmental Engineering

RICKY C. CLIFFT, 1980
B.S., University of Arkansas - Fayetteville
M.S., University of Arkansas - Fayetteville
Ph.D., University of Houston
Associate Dean, College of Engineering
—Professor of Civil and Environmental Engineering

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

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

Executive Officers
The University

MISSION
Arkansas State University educates leaders, enhances intellectual growth, and enriches lives. (ASU=e^P).

CORE VALUES
Arkansas State University values the following as central to our success:

- **Student-Centered**: We are committed to education, inquiry and service in order to meet students’ changing needs. We foster lifelong learning, civic and social responsibility, leadership, and individual and career growth.
- **Learning-Centered**: We nurture intellectual flexibility, knowledge and skills by integrating teaching, research, assessment and learning to promote continuous improvement of our scholarly community.
- **Excellence**: We pursue excellence within the campus community through opportunities for achievement in teaching, research, scholarship, creative activity and service.
- **Diversity**: We embrace diversity in all of its dimensions realizing that mutual respect for individuality and the inclusion of all are vital for both personal and institutional success.
- **Service**: We support and recognize service at all levels of the university. We strive to contribute to the benefit of the university, the Delta, the state, the nation and the world.
- **Integrity**: We hold high standards of character and integrity as the foundations upon which the university is built.

VISION
Arkansas State University aspires to be an academic leader recognized for innovation and quality in teaching and learning, international standing in strategic research areas, and commitment to outreach and service to the Delta and beyond.

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 enjoys a reputation as a quality regional institution of higher education and is recognized for offering special services to the people of the Arkansas Delta. It is the only comprehensive public university located in this region. Dedicated to teaching, research, and service, the university provides students with the broad educational foundations that help develop critical thinking and analytical skills, decision-making capabilities, and communication skills. Dr. Les Wyatt has been president of Arkansas State University since July 1, 1995.

This institution was founded in Jonesboro in 1909 by the Arkansas Legislature as a regional agricultural training school. It began offering a two-year college program in 1918, then became “First District Agricultural and Mechanical College” in 1925. A four-year degree program was begun in 1930, and A & M College became “Arkansas State College” in 1933. The Arkansas Legislature elevated the college to university status and changed the name to Arkansas State University in 1967. Today, the institution has more than 55,000 alumni.

Degree Programs: Master's degree graduate programs were initiated in 12955, and ASU began offering its first doctoral degree, in educational leadership, in the fall of 1992. A second doctoral program, in environmental science, was begun in the fall of 1997, and the doctoral program in molecular biosciences began in the spring of 2006. Programs at the specialist's, master's, bachelor's and associate's degree levels are available through various colleges: Agriculture, Business, Communications, Education, Engineering, Fine Arts, Humanities and Social Sciences, Nursing and Health Professions, Sciences and Mathematics, and University College. Classes are also offered through The Honors College and the independent Department of Military Science. More information about the various colleges and academic departments is available through the Office of Research and Academic Affairs.

Accreditation: Arkansas State University’s commitment to excellence in higher education is demonstrated by its accreditation by The Higher Learning Commission of the North Central Association, as well as 18 specialized accrediting organizations. In addition, the university holds membership in several national organizations which support the highest educational standards.

The ASU System: The ASU System includes campuses at Jonesboro (Craighead County), which offers degree programs through the doctoral level; Beebe (White County), Mountain Home (Baxter County), and Newport (Jackson County), where associate degree programs are offered; and at Heber Springs, Marked Tree and Searcy, Arkansas State University-Beebe became part of the ASU system in 1955. It associated with White River Vo-Tech at Newport in 1992; that campus has attained stand-alone status and is now Arkansas State University-Newport. The Mountain Home campus officially became ASU-Mountain Home on July 1, 1995. Delta Technical Institute at Marked Tree merged with ASU and became Arkansas State University Technical Center on July 1, 2001. A new campus is being built for ASU-Heber Springs, which operates as a sister campus of ASU-Beebe. Foothills Technical Institute at Searcy was merged with ASU Beebe on July 1, 2003, and is now ASU-Searcy, a technical institute of ASU-Beebe.

ASU offers bachelor's degree programs, master's degree programs and upper level courses through ASU degree centers at ASU-Beebe, ASU-Mountain Home, and three other cities -- Blytheville, Forrest City and West Memphis -- where partnership agreements have been established in cooperation with the local community colleges. ASU also operates an instructional site at nearby Paragould, in Greene County.

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 595,791 books and periodical bound volumes, 577,684 federal and state documents, and 584,730 units in microform. The collection includes 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. 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 Honorable 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 Honorable 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 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 a grade point average of 2.500. The minimum GED score for unrestricted admission is 570 (for students tested after Jan. 1, 2002).

*or comparable scores on the SAT, ASSET or COMPASS

**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—rubella 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

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.

FRESHMEN 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) must enroll in MATH 0003, DEVELOPMENTAL ALGEBRA
- ACT Math scores in the 17-18 range (or ASSET/SAT/COMPASS equivalencies) must 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 0-13 range (or SAT/ASSET/COMPASS equivalencies) must 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) must enroll in ENG 0002, WRITING TUTORIAL, concurrently with ENG 1003, Composition I.

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

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 0113, College Reading I
- UC 0123, College Reading II

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 developmental 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, 1957; 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 0113, College Reading I
- UC 0123, College Reading II

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

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 Credits 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 with fewer than 24 semester hours must show proof of compliance with state-mandated remediation laws.

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. Thereafter, 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 nationally 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.

NON-DEGREE STUDENTS

Students are required to submit all admission credentials listed under "Admission Procedures" except for ACT scores and high school and/or college transcripts.

Students must meet the course prerequisites as are other students. Non-degree students 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.
7. International students who reside in countries where tuberculosis (TB) is considered endemic will be required to be tested in the U.S. for TB prior to enrolling in classes at Arkansas State University. TB testing will be available at the ASU Student Health Center for a fee. See the ASU website for a listing of exempt countries.

International students are subject to assessment of additional course work if their academic preparation is deemed inadequate.

International students seeking to transfer from another college or university within the United States must be in good academic standing at that institution and must also submit proof that the U.S. Citizenship and Immigration Services transfer requirements have been met at the previous school.

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 OFFICE OF INTERNATIONAL PROGRAMS
The Office of International Programs (OIP) is the center of international activity at ASU. The OIP brings international students, faculty, and researchers to ASU, provides services for international students at ASU and helps ASU students study abroad while earning credit towards their degree. The office is located in Suite 200 on the main floor of the International Student Center, (870) 972-2329, oip@astate.edu, http://international.astate.edu.

International Admission: The OIP is responsible for the admission of all international students, as well as students coming for one or two semesters from one of ASU’s international exchange partners. To apply for admission, international students must:

1. Complete the international application.
2. Pay the $49 processing fee.
3. Provide official transcripts from all secondary schools and universities attended.
4. Show proof of financial support.
5. Show proof of English proficiency.
6. Provide ACT OR SAT test scores, unless transferring more than twenty-four credit hours.
7. Show proof of immunization against measles and rubella.

The application deadlines are as follows: April 1 for Fall Registration, October 1 for Spring Registration, and March 15 for Summer Registration.

Detailed information regarding financial support, language proficiency, test scores, and other requirements are available at http://international.astate.edu/admissions.htm.

Services for International Students: The OIP acts as a liaison between the international students at ASU and the campus community. The office represents the students' best interest and advises 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, as well as sightseeing trips around the region, and prepares a monthly newsletter to keep international students informed. 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.

To learn about current activities for international students visit the following: http://international.astate.edu/International_Students.htm.

Study Abroad: The OIP serves as a focal point for advising students, faculty, and staff on educational opportunities abroad. Students will learn about programs to Italy, Costa Rica, Germany, China and more, led by ASU faculty during breaks and summer terms. Short-term study programs, offered during spring break or summer sessions, can be arranged for individuals, small student groups, or University classes. Semester and year-long exchanges allow students to experience another culture in more depth while continuing to make regular progress toward a degree.

Programs exist for students in all majors, including business, education, computer science, natural sciences, media design, the visual arts, political science, history, and languages, to name a few. There are more study abroad programs for students to take courses either in English or in a foreign language.

Currently, ASU has exchange partnership with over 30 universities in the following countries:

- Austria
- Brazil
- Belgium
- China
- England
- France
- Germany
- Jordan
- Mexico
- The Netherlands
- New Zealand
- Norway
- Pakistan
- Sweden
- Spain
- Switzerland
- The Netherlands
- Thailand
- Turkey
- Ukraine
- United Kingdom
- Vietnam

The Study Abroad Advisor helps students identify programs, not only with these exchange partners, but in virtually any country.

Visit http://international.astate.edu/Study_Abroad.htm to learn more about study abroad opportunities at ASU.

Middle East Studies: Those students interested in study or research projects involving Near East and North Africa may apply for funding through the Middle East Studies Committee, coordinated through the OIP.

Visit http://international.astate.edu/Middle_East_Studies.htm for more information.

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 Student Account Services 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>
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<tr>
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<th>PER TERM</th>
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<tbody>
<tr>
<td><strong>Undergraduate Tuition</strong></td>
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<tr>
<td>Arkansas Resident</td>
<td>$149.00 per hour</td>
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<tr>
<td>Non-Resident</td>
<td>$384.00 per hour</td>
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<tr>
<td><strong>Graduate Tuition</strong></td>
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<tr>
<td>Arkansas Resident</td>
<td>$188.50 per hour</td>
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<tr>
<td>Non-Resident</td>
<td>$476.50 per hour</td>
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<tr>
<td><strong>Infrastructure Fee</strong></td>
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<td></td>
<td>$4.00 per hour</td>
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<td><strong>Athletics Fee</strong></td>
<td>$10.00 per hour</td>
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<td><strong>Student Union Fee</strong></td>
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<td></td>
<td>$10.00 per hour</td>
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<tr>
<td><strong>Information Technology Fee</strong></td>
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<td>$9.00 per hour</td>
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<tr>
<td><strong>Library Fee</strong></td>
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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>
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<tr>
<td><strong>Regular</strong></td>
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<tr>
<td>Off Campus Courses, including distance learning classes:</td>
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<tr>
<td>Arkansas Resident Undergraduate</td>
<td>$188.50 per hour</td>
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<tr>
<td>Arkansas Resident Graduate</td>
<td>$216.00 per hour</td>
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<td>Non-Resident Undergraduate</td>
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<td><strong>Undergraduate NHP Support Assessment</strong></td>
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<td><strong>Undergraduate COB Support Assessment</strong></td>
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<td><strong>Distance Education Host Fee</strong></td>
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<tr>
<td><strong>Paragould/Greene County Residents (Freshman/Sophomore)</strong></td>
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<tr>
<td><strong>Paragould/Greene County Residents (Junior/Senior)</strong></td>
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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

<table>
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<tr>
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<tbody>
<tr>
<td>Academic Clemency Processing Fee</td>
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<td>Yearbook Fee Per Semester</td>
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<td>Graduation Fee</td>
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<td>Undergraduate</td>
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<td>Masters</td>
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<td>Specialist</td>
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<td>Doctorate</td>
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<td>Student Activity Fee (Fall and Spring semesters only)</td>
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<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>Penalty for Checks Returned for Insufficient Funds, etc.</td>
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<tr>
<td>Audit Fee/Credit hour</td>
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</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.

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

<table>
<thead>
<tr>
<th></th>
<th>FLAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paragould/Non-Residents</td>
<td></td>
</tr>
<tr>
<td>(Freshman/Sophomore)</td>
<td>$149.00 per hour</td>
</tr>
<tr>
<td>Paragould/Non-Residents</td>
<td></td>
</tr>
<tr>
<td>(Junior/Senior)</td>
<td>$384.00 per hour</td>
</tr>
</tbody>
</table>
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—2006-2007

Fall and Spring Rates per semester

<table>
<thead>
<tr>
<th>Residence Hall</th>
<th>5-Day Plan 100 Declining Balance</th>
<th>7-Day Plan 50 Declining Balance</th>
<th>7-Day Plan 200 Declining Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Rates:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>$2,195.00</td>
<td>$2,245.00</td>
<td>$2,220.00</td>
</tr>
<tr>
<td>Kays</td>
<td>$2,195.00</td>
<td>$2,245.00</td>
<td>$2,220.00</td>
</tr>
<tr>
<td>University</td>
<td>$2,195.00</td>
<td>$2,245.00</td>
<td>$2,220.00</td>
</tr>
<tr>
<td>Single Rates:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>$2,405.00</td>
<td>$2,455.00</td>
<td>$2,430.00</td>
</tr>
<tr>
<td>Kays</td>
<td>$2,455.00</td>
<td>$2,505.00</td>
<td>$2,480.00</td>
</tr>
<tr>
<td>North Park Quad</td>
<td>$2,305.00</td>
<td>$2,355.00</td>
<td>$2,330.00</td>
</tr>
<tr>
<td>University</td>
<td>$2,475.00</td>
<td>$2,525.00</td>
<td>$2,500.00</td>
</tr>
<tr>
<td>Single Deluxe Rates:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arkansas</td>
<td>$2,455.00</td>
<td>$2,505.00</td>
<td>$2,480.00</td>
</tr>
<tr>
<td>University</td>
<td>$2,500.00</td>
<td>$2,550.00</td>
<td>$2,525.00</td>
</tr>
<tr>
<td>Meals Only:</td>
<td>$1,015.00</td>
<td>$1,065.00</td>
<td>$1,040.00</td>
</tr>
</tbody>
</table>

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. The 7-Day Plan+50 and 7-Day Plan+200 declining balance plans add 50 and 200 respectively declining balances points to the 7-Day Plan. The declining balance points may be used in the Acansa Dining Hall, Food Court, Jazzman’s, Cafe’ a la Cart, Starbucks, or the Campus Store. The declining balance points will carry over from fall to spring semester if a spring board plan with declining balance points is purchased. The declining balance points must be used by the end of the spring semester to avoid forfeiture.

SUMMER 2006—ROOM AND BOARD (per five week term)

<table>
<thead>
<tr>
<th>Residence Hall</th>
<th>Double</th>
<th>Single</th>
<th>Single Deluxe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas Hall</td>
<td>$300.00</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) 972-2285. Students receiving financial assistance that equals or exceeds their total charges are not eligible for installment arrangements.

COLLEGIATE PARK

<table>
<thead>
<tr>
<th>Apartment Type</th>
<th>Monthly</th>
<th>Fall &amp; Spring (per semester)</th>
<th>Summer I &amp; II 2006 (per Term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Bedroom / 2 Bath</td>
<td>$382.22</td>
<td>$1,720.00</td>
<td>$382.22</td>
</tr>
<tr>
<td>2 Bedroom / 1 Bath</td>
<td>$352.22</td>
<td>$1,585.00</td>
<td>$352.22</td>
</tr>
<tr>
<td>4 Bedroom Townhouse</td>
<td>$333.33</td>
<td>$1,500.00</td>
<td>$333.33</td>
</tr>
<tr>
<td>4 Bedroom / 2 Bath</td>
<td>$291.11</td>
<td>$1,310.00</td>
<td>$291.11</td>
</tr>
</tbody>
</table>

INDIAN VILLAGE

<table>
<thead>
<tr>
<th>Houses</th>
<th>Monthly</th>
<th>Fall &amp; Spring (per semester)</th>
<th>Summer I &amp; II 2006 (per Term)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$430.00</td>
<td>$1,935.00</td>
<td>$645.00</td>
</tr>
</tbody>
</table>

INDIAN VILLAGE APARTMENTS

<table>
<thead>
<tr>
<th>Monthly</th>
<th>Spring Semester</th>
<th>Summer I &amp; II 2006 (per Term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Bedroom</td>
<td>$500.00</td>
<td>$2,250.00</td>
</tr>
<tr>
<td>2 Bedroom</td>
<td>$590.00</td>
<td>$2,655.00</td>
</tr>
<tr>
<td>2 Bedroom w/WD</td>
<td>$615.11</td>
<td>$2,768.00</td>
</tr>
<tr>
<td>3 Bedroom</td>
<td>$665.11</td>
<td>$2,993.00</td>
</tr>
</tbody>
</table>

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 191 apartment units. The houses are furnished with a stove, refrigerator, two ceiling fans, and washer/dryer hook-ups. The apartments are available in one, two and three bedroom configurations. The apartments 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</td>
</tr>
<tr>
<td>6th - 10th class day</td>
<td>75% Third and fourth day</td>
</tr>
<tr>
<td>On or after 11th class day</td>
<td>None</td>
</tr>
</tbody>
</table>

Students eligible for refund should contact Student Account Services at (870) 972-2285 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.

Students are responsible for participating in any mandatory state and institutional assessment exams. Failure to participate in required assessments can prevent registration and delay degree completion and graduation.

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 12 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 (MWI), or no more than twelve semester hours on a two-day schedule (THI).

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 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 following assistance shall be required with regard to courses not completed.

(1) Such student shall receive a complete refund of tuition and such general fees as are assessed against all students at the institution.

(A) Proportionate refunds of room, board, and other fees which were paid to the institution shall be provided to the student, based on the date of withdrawal.
(B) If an institution contracts for services covered by fees which have been paid by and refunded to the student, the contractor shall provide a like refund to the institution.

(2) If the institution has a policy of repurchasing textbooks, students shall be offered the maximum price, based on condition, for the textbooks associated with such courses.

(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 reasonable opportunity for completion of the courses after deactivation.

(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 2763 &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>
</tbody>
</table>

Government & Politics: US 4 POSC 2103
History of Art 3 ART 2583
History of Art 5 ART 2583 & ART 2593
Music Listening & Literature 3 MUS 2503
Music Theory 3 MUS 1413
Music Theory 4 MUS 1413 & MUS 1423
Physics B 3 PHYS 2054 & PHYS 2064
Physics C (Electricity, Magnetism) 4 PHYS 2083 & PHYS 2081 or PHYS 2044
Physics C (Mechanics) 4 PHYS 2073 & PHYS 2071 or PHYS 2034
Psychology 3 PSY 2013
Studio Art (Drawing Portfolio) 3 ART 1033
Studio Art (General Portfolio) 3 ART 1013
World History 4 HIST 1013

AP credit is not awarded for a course the student has already completed at the college/university level. AP credit granted at other institutions is not automatically transferable to Arkansas State University. Students who wish to transfer AP credit must submit official documentation of earned scores.

Students who establish their eligibility to receive AP credit shall have credit recorded without grade points on their permanent records after they have been enrolled at Arkansas State University for a full summer or semester.

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 requirement. 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 transferring credits from two-year collegiate institutions must complete a minimum of 57 semester hours in accredited senior institutions as a prerequisite to the baccalaureate degree.

STUDENTS MUST BE ENROLLED AS DEGREE CANDIDATES AT ASU IN ORDER TO HAVE THEIR TRANSFER HOURS ADDED TO THEIR ARKANSAS STATE UNIVERSITY PERMANENT RECORD.

The Academic Load Policy will govern the number of hours a student may apply toward the academic record when concurrently enrolled at ASU-Jonesboro and other institutions of higher education. ASU-Jonesboro hours will be the hours applied first or more than the maximum number of hours are submitted for approval. Currently enrolled students should not take courses at other institutions without first checking with the advisers regarding the applicability of the courses for ASU credit and to ensure that they not take inappropriate courses, non-equivalent courses, out-of-sequence courses, courses on the wrong level or an overload for the semester.

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:

- F fall semester every year
- F-odd fall semester odd-numbered years
- F-even fall semester even-numbered years
- S spring semester every year
- S-odd spring semester odd-numbered years
- S-even spring semester even-numbered years
- SU summer terms
- D upon demand (with sufficient enrollment)

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>Grade 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>
<tr>
<td>F</td>
<td>failure; for performance that does not meet minimum course requirements and for which no degree credit is justified</td>
<td>0</td>
</tr>
<tr>
<td>P</td>
<td>pass; for satisfactory performance (non-degree credit courses only - no degree credit)</td>
<td>0</td>
</tr>
<tr>
<td>CR</td>
<td>credit; for meeting minimum degree credit standards for courses not requiring letter grades</td>
<td>0</td>
</tr>
<tr>
<td>NC</td>
<td>no credit for NOT meeting minimum degree credit standards for courses not requiring letter grades</td>
<td>0</td>
</tr>
</tbody>
</table>

In addition to the letter grades listed above, the grading system utilizes the following symbols:

- AU audit; for meeting all course requirements except taking examinations and completing written papers
- I* incomplete; for students’ inability to complete all course requirements for reasons beyond their control (An incomplete grade not removed within one semester will be recorded as an F.)
- W withdrawal; for dropping an individual course OR for complete withdrawal from the university
- WN administrative drop; dropped for non-attendance during the first eleven days of class

NOTE: Any "Grade Change Report" form will be accepted only if submitted prior to the close of the semester immediately following the one in which the original grade was recorded. However, 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.

A student’s grade point average is computed by multiplying the number of hours credit of each grade by the grade points assigned to that grade, then dividing the sum of these several products by the total number of degree-credit hours in which the student was enrolled.

TRANSCRIPT POLICIES

1. Transcripts are issued only at the written request of the student or appropriate institutions and officials. The written request can be mailed or faxed to the Office of the Registrar. Students can also use “Web for Students” to request an official transcript. Telephone requests for transcripts are not accepted.

2. Official transcripts of the student’s ASU permanent record are issued on “security” paper with the seal of the university.

3. Transcripts which have been presented for admission or evaluation of credit become a part of the student’s permanent record and are not reissued. Transcripts from other institutions, if needed, must be obtained directly from the original issuing institution.

4. Readmitting students who have been in a non-enrolled status for more than one year 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 their academic record from each institution attended.
6. A $3.00 charge is assessed for all official transcripts and a $2.00 charge for unofficial copies (personal use), except those requested by, and forwarded to, the academic adviser. Unofficial copies of transcripts are picked up in person only with proper ID.

7. Transcripts or other evidence of attendance will not be issued to or for a student who is in debt to the university.

8. Transcripts for currently enrolled students will not be available during the final exam period.

**REPEATING OF COURSES**

Students may repeat up to 18 semester hours in which grades of D or F were earned 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.
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 (EXCLUDED 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. Developmental courses are not included in the "Repeating of Courses" policy.

**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 2.000 (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 at (870) 972-3001.

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 READMISSION 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.

READMISSION FOLLOWING ACADEMIC SUSPENSION

Upon academic suspension from ASU, students should contact the Wilson Advising Center to review the terms for admission through participation in the Restart@state Program.**

** Any student who sits out for two or more years will not be required to participate in the Restart@state Program.

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.

Students who attend another institution (or another ASU campus) and return after a first academic suspension or dismissal will automatically be placed on immediate yet conditional enrollment for one semester. ASU will transfer review work taken while on a first suspension only after the student returns and successfully completes 12 hours with a 2.0 G.P.A. and the Restart program requirements. Coursework taken at another accredited college or university while on a first academic suspension from ASU will be considered for transfer if the coursework

a. removes deficiencies such as the required high school core or developmental coursework and/or
b. is a course retaken as per the ASU recumpilation policy (retaking course work that was earned at ASU with a grade below "C") and/or
c. is designated by ASU as 1000 or 2000 level

All students considering taking coursework while on suspension from ASU are strongly advised to meet with their academic advisor for guidance on course selection.

Second Suspension: With approval of the Wilson Advising Center, students will be granted conditional or automatic readmission after one regular semester on suspension. Arkansas State University will not accept for transfer any credit earned at other institutions during a period in which the student is on a mandatory second suspension at ASU.

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. Arkansas State University will not accept for transfer any credit earned at other institutions during a period in which the student is on mandatory second, third, or subsequent 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 educational 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. A maximum of 25 percent of an associate degree program may be earned through examination (including CLEP), correspondence, evaluated military service credits, and USAFI courses. Students may submit a maximum of 15 CLEP-credit hourst toward an associate degree.
5. 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.
6. A maximum of 25 percent of an associate degree program may be earned through examination (including CLEP), correspondence, evaluated military service credits, and USAFI courses. Students may submit a maximum of 15 CLEP-credit hourst toward an associate degree.
7. Students who attend another institution (or another ASU campus) and return after a 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 READMISSION 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.

READMISSION FOLLOWING ACADEMIC SUSPENSION

Upon academic suspension from ASU, students should contact the Wilson Advising Center to review the terms for admission through participation in the Restart@state Program.**

** Any student who sits out for two or more years will not be required to participate in the Restart@state Program.

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.

Students who attend another institution (or another ASU campus) and return after a first academic suspension or dismissal will automatically be placed on immediate yet conditional enrollment for one semester. ASU will transfer review work taken while on a first suspension only after the student returns and successfully completes 12 hours with a 2.0 G.P.A. and the Restart program requirements. Coursework taken at another accredited college or university while on a first academic suspension from ASU will be considered for transfer if the coursework

a. removes deficiencies such as the required high school core or developmental coursework and/or
b. is a course retaken as per the ASU recumpilation policy (retaking course work that was earned at ASU with a grade below "C") and/or
c. is designated by ASU as 1000 or 2000 level

All students considering taking coursework while on suspension from ASU are strongly advised to meet with their academic advisor for guidance on course selection.

Second Suspension: With approval of the Wilson Advising Center, students will be granted conditional or automatic readmission after one regular semester on suspension. Arkansas State University will not accept for transfer any credit earned at other institutions during a period in which the student is on a mandatory second suspension at ASU.

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. Arkansas State University will not accept for transfer any credit earned at other institutions during a period in which the student is on mandatory second, third, or subsequent suspension at ASU.

** Any student who sits out for two or more years will not be required to participate in the Restart@state Program.
UNIVERSITY GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

Each candidate for a baccalaureate degree must meet the following general requirements: (Some ASU colleges have additional specific “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 [B.S.E./B.M.E./B.S.A. (Ag.Ed.)] and who have earned lower than C in ENG 1013 may satisfy the requirement by repeating the course with a C or better, OR by passing the English Proficiency Essay after completing 62 degree-credit hours, OR by earning a passing grade in an upper-level English writing course.

3. Complete HIST 2763, or HIST 2773, or POSC 2103 as stated in General Education Curriculum to satisfy the Arkansas requirement of American History or American Government.

4. Eighteen (18) 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 regionally accredited baccalaureate-degree-granting institution.

   A maximum of 25 percent of a baccalaureate degree program may be earned through credit by examination (including CLEP) advanced placement, 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.)

5. 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 institutions as a prerequisite to the baccalaureate degree.

6. 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 CANNOT BE COUNTED AS JUNIOR-SENIOR CREDIT.)

7. 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.

8. 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.)

9. 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.

NOTE: See #3 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.

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.

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.
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 goal of the Office of Student Affairs is 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.

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 concern about ways of handling the pressures of college life.

The Counseling Center is located in Suite 2202, Student Union. 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 328 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 seventeen officers. 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. Jenifer 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 fourth 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) 972-3798.

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.

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 complete financial aid packages for individual students to provide maximum grant and scholarship funds, along with part-time employment, in order to keep the necessary 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 Work Force Grant
Distinguished Governor’s Scholarship
Governor’s Scholarship
Minority Teachers Scholarship/ Minority Masters Scholarship
Second Effort Scholarship
STARS Scholarship
University Aid Programs (see below for details)

Academic Scholarships*
   Athletics
   Fine Arts (Applied Music, Art, Band, Debate, Theatre)
   Grants-In-Aid
   The Delta Scholarship

*Descriptions and guidelines for ASU institutional academic scholarships may be found at http://finaid.astate.edu.

Application Procedure
Submit the application by February 15 with the following:
• Two recommendation letters sent from high school teachers, counselors, principal or community leader
• High school seven-semester transcript
• ACT/SAT score verified by the counselor on the scholarship application

Incomplete applications will not be considered.

Deadline
February 15

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 hosted 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.

Scholarship
   PRIVATELY FUNDED — DEPARTMENTAL

Requirements
Variable
Award Amount
Variable
Renewal
Variable
Application Procedure
• Scholarship application
• High school or college transcript
Deadline
February 15

Scholarship
   GRANTS-IN-AID FINE ARTS ATHLETICS

Requirements
Variable
Award Amount
Variable
Renewal
Variable
Application Procedure
Contact the appropriate department for auditions and/or interviews
Deadline
Variable

Scholarship
   ARMY ROTC

Requirements
Variable
Award Amount
Full tuition, housing, books, and a $250 per month stipend
Renewal
Renewable up to four years
Application Procedure
Contact the Department of Military Science at (870) 972-2064
Deadline
December 1

Scholarship
   The DELTA SCHOLARSHIP

Requirements
• Must be an incoming freshman graduating from one of the accredited Arkansas Delta high schools
• One of the following: ACT score of 20-23 or SAT score of 950 to 1109
• High school cumulative grade point average of a minimum of 3.0 on a 4.0 scale
• Proven leadership in grades 9-12 including leadership in school clubs, community involvement and volunteerism
• Two recommendation letters referencing the student’s past leadership activities and potential for future leadership in service to the Delta region
• Recipients selected on a competitive basis.
Award Amount
$1,000 per semester up to a total of eight semesters
Must begin using the scholarship the fall semesters after high school graduation
This scholarship does not combine with the ASU Academic Merit or an ASU tuition scholarship
Renewal
Renewable up to eight total semesters provided the recipient successfully completes a minimum of 12 hours each semester and maintains a 2.500 cumulative GPA. All coursework must be completed on the ASU-Jonesboro campus.

Application Procedure
Submit the application by February 15 with the following:
• Two recommendation letters sent from high school teachers, counselors, principal or community leader
• High school seven-semester transcript
• ACT/SAT score verified by the counselor on the scholarship application

Incomplete applications will not be considered.

Deadline
February 15
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 reprimanded, 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 ACTIVITIES BOARD (SAB) ([http://union.astate.edu/involve.html](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... 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)**

**Assessment**

- CAAP-Assessment of General Education
- PRAXIS I: Pre-Professional Skills Test (PPST)*

**Post-Graduate**

- Graduate Record Exam (GRE)**
- Law School Admission Test (LSAT)
- Miller Analogies Test (MAT)**
- Pharmacy College Admission Test (PCAT)

**Occupational Certification**

- PRAXIS II: Specialty Area Tests
- PRAXIS II: Multiple Subjects Assessment for Teachers (MSAT)
- National Counselor's Exam (NCE)

- offered on computer/paper-pencil

**-offered ONLY on computer

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.

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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 students work on campus 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 eight national sororities and twelve national fraternities.

<table>
<thead>
<tr>
<th>Sororities</th>
<th>Fraternities</th>
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<tbody>
<tr>
<td>Alpha Gamma Delta</td>
<td>Alpha Gamma Rho</td>
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<tr>
<td>Alpha Kappa Alpha</td>
<td>Alpha Phi Alpha</td>
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<tr>
<td>Alpha Omicron Pi</td>
<td>Alpha Tau Omega</td>
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<td>Chi Omega</td>
<td>Kappa Alpha</td>
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<td>Delta Zeta</td>
<td>Kappa Alpha Sigma</td>
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<tr>
<td>Phi Mu</td>
<td>Lambda Chi Alpha</td>
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<tr>
<td>Zeta Phi Beta</td>
<td>Pi Kappa Alpha</td>
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<tr>
<td>Sigma Gamma Rho</td>
<td>Sigma Chi</td>
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<td></td>
<td>Sigma Phi Epsilon</td>
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<td>Tau Kappa Epsilon</td>
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</table>

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 Ambassadors
- Agriculture Business Club
- Agriculture Council
- ASU Rodeo Club

College of Business

- Accounting Club
- ASU Marketing Club
- Bank Club
- Commercial Banking Club
- Financial Management Association (FMA)
- Society for Human Resource Management (SHRM)
- The Association for Operations Management (APICS)

Interested students should call the Tribal Leadership Center, 972-2055.
All students enrolled at Arkansas State University are urged to take part in the numerous special interest activities:

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

**ASU Hall Council:** To provide recreational and educational events for residents and to be an open forum for discussion of problems and suggested changes within the residence hall.

**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 & Fisheries Club:** To promote and prepare students who have an interest in wildlife management.

**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.

**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.

**Common Ground:** To provide tolerance and equality among students of all sexual orientations and gender identities.

**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.

**Forensics/Debate Squad:** Students who meet general eligibility requirements may participate in intramural and intercollegiate debate, group discussion, extempore 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.
Honors College Association: To provide a forum students in honors classes to address the needs, challenges, and opportunities facing students seeking honors credit 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.

International Reading Association: To involve students in literacy activities in the community.

International Students Association: To provide social and cultural activities that will promote cross-cultural awareness and understanding among all members of the university community. ISA is open to all ASU students, American as well as international.

Intramural Program: The Student Union Recreation Office sponsors an active intramural program. Anyone not participating in intercollegiate athletics is encouraged to seek recreation through this program.

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.

Minority Graduate Student Organization: To provide excellence, mentoring, professional guidance and social support for scholarly advancement of minority graduate students.

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.

Non-Traditional Student Association: To provide support for and offer programs geared to the particular needs of non-traditional students.

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.

Pre-Pharmacy Club: To promote interest in pharmacy, to provide insight into the requirements and process for pharmacy school admissions, and to provide knowledge about pharmacy employment opportunities.

Presidential Ambassadors: Serve as hosts to campus guest at university functions.

Psychology Club: The purpose of the ASU Psychology Club is to promote interest in the field of psychology at ASU, to serve ASU and our community in varying ways in order to promote good will and charity, to enhance the knowledge of students interested in psychology, and to provide an opportunity for students to gain experience in psychological research.

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).

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.

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.

RELIGIOUS ACTIVITIES
Arkansas State University is a state-supported institution and therefore nondenominational, but is distinctly interested in the religious life of its students and encourages them to attend regularly the place(s) of worship of their choice. Active groups are Ambassadors, Baptist Student Union, Canterbury House, Chi Alpha, Christ on Campus Student Fellowship, Church of Christ, Interfaith Christian Student Union, Islamic Association of ASU, Missionary Baptist Student Fellowship, Muslim Student Association, Nazarene Campus Ministries, Newman Club, Standard Bearers of ASU, Student Association of Church of Jesus Christ of Latter-Day Saints, Wesley Foundation, and Fellowship of Christian Athletes.

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 DIRECTORS 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.

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 AGRICULTURAL 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 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.

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 majors.

BLOCK AND BRIDGE—Professional organization promoting animal science.

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

COLLEGIATE FARM BUREAU—Professional leadership organization promoting the role of Agriculture and society.

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 MU EPSILON—National honorary fraternity for math majors.

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

LAMBDA ALPHA EPSILON—National honorary society for law enforcement.

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

LAMBDA NU—National Honor Society in Radiologic and Imaging Sciences.

LAMBDA 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 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 MU ALPHAL—National professional music fraternity.

PI GAMMA ALPHA—National honorary fraternity for outstanding students in political science.

PI ALPHALPHA—National honor society for outstanding students in public affairs and administration.

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 ALPHAL—National honor society for outstanding students in political science.

PLANT SCIENCE CLUB—Professional organization promoting Agronomy and Horticulture.

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.

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.
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. An Alumni publication, Affairs of State is published annually and mailed to all ASU graduates whose current addresses are known. Members of the ASU Alumni Association receive two issues per year.

Tributary. A publication containing the literary efforts of ASU students, Tributary 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.

THE ASU ALUMNI ASSOCIATION
By building partnerships that involve alumni and friends in the life and work of Arkansas State University, association 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, participants stay informed, involved and committed to the ASU community. For information, just call (870) 972-2586 or click on http://alumni.astate.edu.
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—Law Enforcement
*Business Technology—**Law Enforcement Administration
*Criminal Justice—Clinical Laboratory Science—Paramedics
**Crime Scene Investigation—Physical Therapist Assistant
*Digital Electronics Technology—Radiologic Technology
Food Technology

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

Associate in Science (A.S.)
Computer and Information Technology—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—English
—Studio Art—French
Chemistry (emphasis in):
—Pre-Pharmacy—History
Communication Studies—Music
Computer Science—Philosophy
Criminology—Political Science
Economics (emphasis in):
—Pre-Law—Spanish

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

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

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

Bachelor of Music Education (B.M.E.)
Instrumental Music—Vocal Music

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 Technology
Computer Science
Digital Media and Design
Early Care and Education
Exercise Science
Finance (emphasis on):
—Banking
—Corporate Finance
—Insurance
—Real Estate
Forensic Science
Graphic Communications
Health Promotion
International Business
Journalism (emphasis on):
—Advertising
—News-Editorial Journalism
—Photojournalism
—Public Relations
Management (emphasis on):
—Human Resource Management
Marketing (emphasis on):
—Marketing Management
Mathematics
Physics
Psychology
Radio-Television (emphasis on):
—Broadcast Journalism
—Electronic Media Sales and Promotion
—Production-New Media Option
—Production-Video/Audio Option
Sport Management (emphasis on):
—Business
—Media
Technology (emphasis on):
—Computer Aided Drafting and Design
—Computer Systems
—Manufacturing-Industrial
—Technology Management
—Technical Studies
Wildlife Ecology and Management

Bachelor of Science in Agriculture (B.S.A.)
Agricultural Business (emphasis on):
—Agricultural Communications
—Agricultural Economics
—Agricultural Finance
—Farm Management
—Agricultural Marketing and Mgmt
Agricultural Education (emphasis on):
—Agricultural Communication
—Agricultural Mechanics
—Teaching
Animal Science (emphasis on):
—Agricultural Science
—Food Science and Technology
—Poultry Industry Management
—Pre-Veterinary
Agricultural Science
Plant Science (emphasis on):
—Agronomy
—Environmental Horticulture
—Science and Research

Bachelor of Science in Education (B.S.E.)
Art Education
Business Technology
Early Childhood Edu. (Pre K-Grade 4)
Early Childhood Edu. (Special Ed)
English
French
General Sciences (emphasis on):
—Biology
—Chemistry
—Physics
Mathematics
Middle-Level Education (Grades 4-8)
Physical Education
Social Science
Spanish
Speech Communication and Theatre Arts

*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
***available only at designated off-campus sites
MINORS OFFERED

Arkansas State University offers 45 minors with requirements varying from 18-24 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 18 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
Cognitive Science 18 hours
Communication Studies 21 hours
Computer and Information Technology 18 hours
Computer Science 18 hours
Criminology 18 hours
Economics 18 hours
Electronic Commerce 18 hours
Engineering 22-24 hours
English 18 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 Communications 18 hours
Graphic Design 21 hours
History 18 hours
Homeland Security and Disaster Preparedness 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 and Leadership 20-21 hours
Modern European Studies 18 hours
Music 22-23 hours
Philosophy 18 hours
Physics 17 hours
Plant Science 18 hours
Political Science 18 hours
Psychology 18 hours
Radio-Television 18 hours
Real Estate and Insurance 21 hours
Religious Studies 18 hours
Sociology 18 hours
Spanish 18 hours
Statistics 20 hours
Theatre 21 hours
Women and Gender Studies 18 hours

Bachelor of Science in Engineering (B.S.Engr.)
Engineering (concentration in):
—Civil Engineering
—Electrical 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

*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
***available only at designated off-campus sites
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-physical therapy, pre-optometry, pre-veterinary and similar programs to work toward one of the bachelors 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, biological sciences, or interdisciplinary studies.

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 Humanities and Social Sciences
pre-law

College of Sciences and Mathematics
pre-medical
pre-dental
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

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 bulletin.

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 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 of the course numbers 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.
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
  - Molecular Biosciences

- 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

- Specialist in Education
  - Educational Leadership

- Master of Accountancy

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-Bebee, 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 2260, 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:

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P.O. Box 60
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Graduate School
P.O. Box 60
State University, AR 72467
Master of Arts
Art
Biology
Communication Studies and Theatre Arts
   Emphasis in Communication Studies and Emphasis in Theatre Arts
Criminal Justice
English
History
Heritage Studies
Political Science
Sociology

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
Environment Sciences

Master of Science in Agriculture
Agricultural Education

Master of Science in Education
Curriculum and Instruction
Early Childhood Education
Educational Leadership
Educational Theory and Practice
Elementary Education
Reading
Secondary Education Teaching Fields
   Biology
   Business Technology
   Chemistry
   English
   Mathematics
   Physical Education
   Social Science

Master of Science in Mass Communications
Journalism
Radio-Television

Master of Science in Nursing
Adult Health Nursing
Family Nurse Practitioner

Master of Social Work
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 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 forty-five hours earned toward a degree. The requirements in Science are to be completed before 60 semester hours are completed, if a course listed in the category is a prerequisite for a course listed under requirements of the major. Students and advisors 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>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>ENG 1003, Composition I</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH 1023, College Algebra, or MATH 1054, or any higher level mathematics course for which College Algebra is a prerequisite.</td>
<td>3</td>
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<tr>
<td>Critical Thinking</td>
<td>One of the following courses:</td>
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<tr>
<td></td>
<td>PHIL 1103, Introduction to Philosophy</td>
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<td></td>
<td>PHIL 1503, Logic and Practical Reasoning</td>
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<td></td>
<td>SPOV SC 1203, Oral Communication</td>
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<tr>
<td>Understanding Global Issues</td>
<td>One of the following courses:</td>
<td>3</td>
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<tr>
<td></td>
<td>ANTH 2233, Introduction to Cultural Anthropology</td>
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<td></td>
<td>GEOG 2613, Introduction to Geography</td>
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<tr>
<td></td>
<td>HIST 1013, World Civilization to 1660</td>
<td></td>
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<tr>
<td></td>
<td>HIST 1023, World Civilization since 1660</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities</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>
<td>9</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>ART 2503, Fine Arts—Visual</td>
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<td></td>
<td>MUS 2503, Fine Arts—Musical</td>
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<td></td>
<td>THEA 2503, Fine Arts—Theatre</td>
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<tr>
<td>Humanities</td>
<td>ENGL 2003, Introduction to Literature of the Western World I</td>
<td></td>
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<tr>
<td></td>
<td>ENGL 2013, Introduction to Literature of the Western World II</td>
<td></td>
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<tr>
<td></td>
<td>PHIL 1103, Introduction to Philosophy</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Three of the following courses. At least one course must be selected from HIST 2763, HIST 2773, POSC 2103.</td>
<td>9</td>
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<tr>
<td></td>
<td>ECON 2313, Principles of Macroeconomics</td>
<td></td>
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<tr>
<td></td>
<td>ECON 2333, Economic Issues and Concepts</td>
<td></td>
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<tr>
<td></td>
<td>HIST 2763, The United States To 1876</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HIST 2773, The United States Since 1876</td>
<td></td>
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<tr>
<td></td>
<td>POSC 1003, Introduction to Politics</td>
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<td></td>
<td>POSC 2103, Introduction to United States Government</td>
<td></td>
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<td></td>
<td>PSY 2013, Introduction to Psychology</td>
<td></td>
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<tr>
<td></td>
<td>SOC 2213, Introduction to Sociology</td>
<td></td>
</tr>
</tbody>
</table>
Science ................................................. 8
Life Sciences. Select one of the following:
Biol 1003, Biological Science, and BIOL 1001, Biological Science Laboratory
Biol 1013, Biology of the Cell, and BIOL 1021, Biology of the Cell Laboratory
Biol 1033, Biology of Sex, and BIOL 1001, Biological Science Laboratory
Biol 1043, Plants and People, and BIOL 1001, Biological Science Laboratory
Biol 1083, People and the Environment, and BIOL 1001, Biological Science Laboratory
Biol 2103, Microbiology, and BIOL 2101, Microbiology for Nursing and Allied Health Laboratory
If BIOL 2103 is selected, the student must also take EITHER ZOOL 2001, Human Anatomy and Physiology I, and CHEM 1013, General Chemistry I, or ZOOL 1003, Human Anatomy and Physiology I, Laboratory, OR ZOOL 1003, Human Anatomy and Physiology I, Laboratory and ZOOL 1111, Human Anatomy and Physiology II, Laboratory

Physical Sciences. Select one of the following:
CHEM 1013, General Chemistry I, and CHEM 1011, General Chemistry I Laboratory
GEOG 1003, Environmental Geology, and GEOG 1001, Environmental Geology Laboratory
PHYS 1003, Principles of Physical Science, and PHYS 1001, Physical Science Laboratory
PHYS 1103, Introduction to Space Science, and PHYS 1101, Introduction to Space Science Laboratory
PHYS 2034, University Physics I
PHYS 2054, General Physics I

Health and Wellness ........................................... 2
NRS 2203, Basic Human Nutrition
PE 1002, Concepts of Fitness

Enhancements .................................................................................................................. 3-6
Three courses must 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.
AGEC 1003, Intro to Ag Business (E)
AGR 2243, Feeding the Planet (E)
CS 2173, Intro to Programming, and CS 2171, Intro to Programming Lab (E,M)
ENG 3013, Practical Writing (C,E)
ENG 3043, Technical Writing (C,E)
ENG 4703, Persuasive Writing (C,E)
HLTH 2513, Principles of Personal Health (E)
JOUR/RTV 1003, Mass Communication in Modern Society (C,E)
MATH 1143, Finite Mathematics (E,M)
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.
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

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

Natural Sciences and Mathematics .................................................................................. 7
Biol 1001, Biological Science Laboratory 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.
CHEM 1013, General Chemistry I and CHEM 1011, General Chemistry I Laboratory
GEOG 1003, Environmental Geology and GEOG 1001, Environmental Geology Laboratory
MATH 1023, College Algebra or MATH 1013, College Mathematics AND one of the following:
PHYS 1003, Principles of Physical Science and PHYS 1001, Physical Science Laboratory
PHYS 1103, Introduction to Space Science and PHYS 1101, Introduction to Space Science Laboratory
PHYS 2034, University Physics I
PHYS 2054, General Physics I

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:
CIT 1503, Microcomputer Applications
CS 1043, Introduction to Computers

Total Requirements ............................................................................................................ 25

General Education Curriculum for Associate in General Studies Degrees

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

Natural Sciences and Mathematics .................................................................................. 7
Biol 1001, Biological Science Laboratory 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.
CHEM 1013, General Chemistry I and CHEM 1011, General Chemistry I Laboratory
GEOG 1003, Environmental Geology and GEOG 1001, Environmental Geology Laboratory
MATH 1023, College Algebra or MATH 1013, College Mathematics AND one of the following:
PHYS 1003, Principles of Physical Science and PHYS 1001, Physical Science Laboratory
PHYS 1103, Introduction to Space Science and PHYS 1101, Introduction to Space Science Laboratory
PHYS 2034, University Physics I
PHYS 2054, General Physics I

Arts and Humanities ........................................................................................................ 3
One of the following:
Fine Arts:
ART 2503, Fine Arts-Visual
MUS 2503, Fine Arts-Musical
THEA 2503, Fine Arts-Theatre

Humanities:
ENG 2003, Introduction to Literature of the Western World
ENG 2013, Introduction to Literature of the Western World II
PHIL 1103, Introduction to Philosophy

Social Sciences .................................................. 6
Two of the following:
ANTH 2233, Introduction to Cultural Anthropology
ECON 2313, Principles of Microeconomics
ECON 2333, Economic Issues and Concepts
GEOG 2513, Introduction to Geography
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

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

Total Requirements ............................................................................................................ 25
General Education Curriculum for Associate in Science Degrees

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

Natural Sciences and Mathematics .................................................................................... 11
   Biological Sciences (one course and its laboratory)
   BIOL 1001, Biological Science Laboratory 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)
   CHEM 1011, General Chemistry I Laboratory and CHEM 1013, General Chemistry I
   GEOL 1003, Environmental Geology and GEOL 1001, Environmental Geology Laboratory
   PHSC 1201, Physical Science Laboratory and PHSC 1203, Physical Science
   PHYS 2011, General Physics I Laboratory and PHYS 2033, General Physics I
   PHYS 2034, University Physics I
   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 2703, 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):
   ECON 2313, Principles of Macroeconomics
   ECON 2333, Economic Issues and Concepts
   GEOG 2613, Introduction to Geography
   PSY 2013, Introduction to Psychology
   SOC 2213, Principles of Sociology
   SOC/ANTH 2233, Introduction to Cultural Anthropology

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 Communication Studies
   Department of Journalism
   Department of Radio-Television

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
The 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 recipients 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 Special Topics courses, 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 College 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, totalling 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 Special Topics courses, 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
ENG 1003, Honors Composition I
ENG 1013, Honors Composition II

Arts and Humanities
ART 2503, Honors Fine Arts-Visual
MUS 2503, Honors Fine Arts-Musical
THEA 2503, Honors Fine Arts-Theatre

Natural Sciences and Mathematics
BIOL 1001, Honors Biological Science Laboratory
BIOL 1003, Honors Biological Science
BIOL 1013, Honors Biology of the Cell
BIOL 1021, Honors Biology of the Cell Laboratory
CHEM 1013, Honors General Chemistry I
MATH 2204, Honors Calculus I

Social Science
ANTH 2233, Honors Introduction to Cultural Anthropology
ECON 2313, Honors Principles of Macroeconomics
HIST 1013, Honors World Civilization to 1660
HIST 1023, Honors World Civilization since 1660
HIST 2763, Honors The United States to 1876
HIST 2773, Honors The United States since 1876
PSOC 2103, Honors Introduction to American Government
PSY 2513, Honors Introduction to Psychology
SOC 2213, Honors Principles of Sociology

Other lower level courses
ECON 2113, Honors Business Statistics
SPAN 1023, Honors Elementary Spanish II
SPAN 2013, Honors Intermediate Spanish I

Upper Division Work

Upper division Honors Special Topics courses 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.
HONORS COURSE DESCRIPTIONS

HNRS 311V. Honors Special Topics  An interdisciplinary course that focuses on a specific area, has specialized content, or treats interdisciplinary topics. May be repeated for credit with different subtitle. Demand.

HNRS 400V. Honors Independent Study*  A course of study initiated by the student and carried out under the supervision of a member of the faculty with appropriate expertise. Planning for Honors Independent Study should begin no later than eight weeks prior to the beginning of the semester in which the study will begin.

HNRS 411V. Honors Special Topics  An interdisciplinary course that focuses on a specific area, has specialized content, or treats interdisciplinary topics. May be repeated for credit with different subtitle. Demand.

HNRS 489V. Honors Senior Thesis*  A research or creative project in the major or minor undertaken by advanced students, working under the supervision of a member of the faculty with appropriate expertise, as the capstone to the college career, concludes with an oral defense. Planning for an Honors Senior Thesis should begin no later than eight weeks prior to the beginning of the semester in which the study will begin. Requires senior Honors standing. A maximum of six hours of Honors Senior Thesis credit may be applied toward a degree.

*Requires Honors standing and approvals by the supervising faculty member, the major adviser, the Honors adviser in the major, the department chair, the College Honors Advisory Committee chair, and the Dean of the Honors College.

*A sampling of 3000/4000/5000 level Honors special topics courses that have been offered in the past semesters include the following:

- Extinction: It Could Happen to You
- Self as Text: Contemporary Mississippi Autobiographies
- Nationalism & Its Consequences
- The Media and the Making of the President
- Handicapped Individuals in Society
- Communism in Crisis
- The Vietnam War in Literature
- Scientific & Social Implications of Human Genome Studies
- Economics of Professional Sports
- But is it Art? Changing Paradigms in Art & Technology
- Earthquakes & Public Policy: Shake, Rattle and Poll
- Representation of the Civil Rights Movement in American Culture
- It's hot, it's sexy, it's Your Research: Science and the Media

*Additional Honors special topics are available based upon Honors student recommendations and interests. Students, through the Honors College Student Association, develop course ideas and work with professors to develop courses of immediate interest. They then go through the normal university procedures for course adoption, scheduling and offering.
WILSON CENTER FOR ACADEMIC ADVISING AND LEARNING ASSISTANCE

Director: Jill Simons

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

Directors: Tim Weaver, Upward Bound; Lesley Bauders, 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, 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 9-12 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 (870) 972-2080 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.

Students seeking entrance into the Associate in General Studies program must satisfy university admission standards identical to those required of applicants for four-year university programs. Students may transfer from the Associate in General Studies program to other degree programs, and may well do so if they change career objectives and/or goals.
Bachelor of Science in Interdisciplinary Studies

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

Major Courses:
Three Academic Areas .................................................................................................................. 54-63

Electives:........................................................................................................................................ 24-12
Total 124

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 2.0 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. The number of semester hours earned in the College of Business is limited to thirty (30) or fewer. At least twenty-four (24) semester hours of credit must be earned after a student has enrolled in the Bachelor of Science in Interdisciplinary Studies program in order for the student to be qualified and eligible to receive the degree.
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:

Universities College (UC)

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. Fall, Spring, Summer.

0113. College Reading I

College Reading I is a non credit course designed to provide students having an ACT score of 15 or lower with instruction in the basic skills necessary for the development of effective college reading practices. Course content will focus on the literal meaning of reading selections. Fall, Spring, Summer.

0123. College Reading II

College Reading II is a noncredit reading course designed to provide reading instruction in reading skills that are applicable to all types of reading, including strategies specific to the content areas of the social sciences, science and technology, and the humanities. This course is required for students with ACT scores of 16 to 18 and students completing College Reading I with a C or higher. Fall, Spring, Summer.

1000. 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. Fall, Spring.

1001. 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. Fall.

1013. FYE Seminar-Making Connections

Required course for all first semester freshmen. Course content is centered around the skills and knowledge needed to be a successful ASU student, including academic performance, problem solving, critical thinking, self management and group building skills, university policies and other relevant issues. Fall, Spring.

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. Spring.

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. Spring.

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. Spring.

3015. Study Abroad

ASU students participating in approved exchange programs will register for this course. Students must apply in the Office of International Programs. Fall, Spring, Summer.

311V. Study Abroad, Unaffiliated Programs

Holding courses for students enrolled in study abroad programs not affiliated with ASU. Demand.

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. Demand.

UNIVERSITY COLLEGE 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.
## College of Agriculture

Professor Gregory C. Phillips, Dean  
Professors Armah, Cramer, Greenwalt, Hood, W. Humphrey, Kennedy, Teague; Associate Professors Agnew, Baker, Pittcock, Shumway; Assistant Professors Ahn, Green, K. Humphrey, Schroeter, 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 1003</td>
<td>Introduction to Agricultural Business</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 2113</td>
<td>Seminar in Agri. Making Connections</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3711</td>
<td>Seminar in Agriculture Information Literacy</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 3721</td>
<td>Seminar in Agriculture Interpretation of Research</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 1613</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>CIT 1503</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>At least 6 credits from the following list:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGRI 4223, Agriculture and the Environment OR AGED (any 3 cr.)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSSC 2813, Soils</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong>:</td>
<td><strong>24</strong></td>
<td></td>
</tr>
</tbody>
</table>

### General Education Requirements:

- Refer to index for General Education Curriculum for Baccalaureate Degrees  
- AGRI 1003 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.  
- AGRI 2243 (Feeding the Planet) does not count as an Enhancement or for major requirements of Agriculture majors.

### College of Agriculture Core Courses:

- (see beginning of Agriculture section)  
- **Total**: 24

### Major Requirements:

<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>3</td>
</tr>
<tr>
<td>ACCT 2013</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4003</td>
<td>Managerial Accounting OR AGEC 4003, Financial Analysis of Agribusiness</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 4033</td>
<td>Agricultural Law OR LAW 2023, Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 4073</td>
<td>Agricultural Business Management</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 4083</td>
<td>Agricultural Policy and Current Issues</td>
<td>3</td>
</tr>
<tr>
<td>CIT 1503</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2303</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3153</td>
<td>Organizational Behavior OR MGMT 3123 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3013</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong>:</td>
<td><strong>30</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Emphasis Area:

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

- **Agricultural Communications:**  
  - JOUR 2013, News Reporting | 3  
  - JOUR 2203, Feature and Magazine Article Writing | 3  
  - JOUR 2253, Advertising and the Print Media | 3  
  - Electives in Communications | 9  
  **Total**: 18

- **Agricultural Finance:**  
  - AGEC 4053, Agricultural Finance | 3  
  - ECON 3323, Money and Banking | 3  
  - FIN 3713, Business Finance | 3  
  - Electives in AGEC, FIN, ECON, etc. | 9  
  **Total**: 18

- **Farm Management:**  
  - AGEC 3053, Commodity Futures Markets | 3  
  - AGEC 4013, Farm Appraisal | 3  
  - Electives in PSSC, ANSC, AGEN, etc. | 9  
  **Total**: 18

- **Agricultural Marketing and Management:**  
  - AGEC 3053, Commodity Futures Markets | 3  
  - MKTG 3043, Retailing OR AGEC 3063, Agricultural Sales and Services | 3  
  - Electives in AGEC, MKTG, MGMT, etc. | 9  
  **Total**: 18

- **Agricultural Economics:**  
  - CIT 3203, Operations Management | 3  
  - ECON 3313, Microeconomic Analysis | 3  
  - ECON 3353, Macroeconomic Analysis | 3  
  - MATH 2143, Business Calculus | 3  
  - Electives in MATH, ECON, MGMT, AGEC, etc. | 6  
  **Total**: 18

### Electives:

- **Total**: 8-11

### Major in Agricultural Education

#### Bachelor of Science in Agriculture

### General Education Requirements:

- Refer to index for General Education Curriculum for Baccalaureate Degrees  
- AGRI 1003 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.

### Specific General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1003</td>
<td>Biological Science AND BIOL 1001, Biological Science Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry I AND CHEM 1011, General Chemistry I Lab</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2233</td>
<td>Principles of Macroeconomics OR ECON 2333 Economic Issues &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1002</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1013</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 2003</td>
<td>Introduction to Literature of the Western World</td>
<td>3</td>
</tr>
<tr>
<td>ENG 2103</td>
<td>Introduction to Literature of the Western World II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR HIST 2773, The United States To OR Since 1876</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 1013 OR 1023, World Civilization To OR Since 1600</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 1123, College Algebra</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUS 2503 OR THET 2503 OR ART 2503 (only 3 hours required for education majors)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PE 1002, Concepts of Fitness</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PSY 2703, Educational Psychology (listed under the major in AG Ed. course &amp; also in the major)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SCOM 1203, Oral/Comm OR PHIL 1103, Intro to Philosophy, OR PHIL 1103, Logic &amp; Practical Reasoning</td>
<td>3-6</td>
<td></td>
</tr>
</tbody>
</table>

- AGRI 2243 (Feeding the Planet) does not count as an Enhancement or for major requirements of Agriculture majors.  
- AGRI 1003 (Introduction to Agribusiness) does not count as an Enhancement for Agriculture majors.
### BSA Core-Agriculture:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 1003, Introduction to Agriculture Business</td>
<td>3</td>
</tr>
<tr>
<td>AGED Elective</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3711, Seminar in Agriculture Information Literacy</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 2721, Seminar in Agriculture Interpretation of Research</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 4721, Seminar in Agriculture Professional Presentations</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 3233, Applied Agricultural Statistics OR ECON 2113, Business Statistics I, OR</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3233, Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2313, Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>PSSC 2813, Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>PSSC 2813, Soils Lab</td>
<td>3</td>
</tr>
<tr>
<td><em>Total</em></td>
<td>21</td>
</tr>
</tbody>
</table>

### AGED Major:

**Applied Technical Agriculture Courses:**

- AGEC 4073, Agriculture Business Management: 3 sem. hrs.
- ANSC 1621, Introduction to Animal Science Laboratory: 1 sem. hrs.
- ANSC 3613, Nutritional management of Domestic Animals: 3 sem. hrs.
- PSSC 2811, Soils Lab: 1 sem. hrs.
- Agricultural Elective (Must be upper level ag course): 3 sem. hrs.

**Sem. Hrs.**

- **Total**: 11 sem. hrs.

### AGED Major:

**Required Courses:**

- CHEM 1033, Introduction to Organic and Biochemistry AND: 3 sem. hrs.
- CHEM 1031, Introduction to Organic and Biochemistry Laboratory: 1 sem. hrs.
- BOT 1103, General Botany AND BOT 1101, General Botany Laboratory: 3 sem. hrs.

**Sem. Hrs.**

- **Total**: 8 sem. hrs.

### Emphasis: Teaching

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAG 4623, Special methods for Teaching Agricultural Education</td>
<td>3</td>
</tr>
<tr>
<td>TAG 4858, Teaching internship in the Secondary School</td>
<td>12</td>
</tr>
<tr>
<td>Three of the following courses:</td>
<td>9</td>
</tr>
<tr>
<td>AGED 2433, Principles of Agricultural Power: Electricity and Internal Combustion Engines</td>
<td>9</td>
</tr>
<tr>
<td>AGED 2453, Application of Welding Technologies to Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGED 3443, Agricultural Equipment Hydraulic Systems</td>
<td>3</td>
</tr>
<tr>
<td>AGED 3453, Agricultural Structural Systems</td>
<td>3</td>
</tr>
<tr>
<td>The following exams are required:</td>
<td>9</td>
</tr>
<tr>
<td>Praxis I - Required for admission into Teacher Education Program and for all Emphasis Areas</td>
<td>3</td>
</tr>
<tr>
<td>Praxis II - Required for graduation for the Teaching Emphasis Option only</td>
<td>9</td>
</tr>
<tr>
<td>TOTAL for all Ag Ed majors in any emphasis areas</td>
<td>100</td>
</tr>
<tr>
<td>PLUS 24 from one of the emphasis areas below</td>
<td>24</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>127-130</td>
</tr>
</tbody>
</table>

### Emphasis: Agricultural Mechanics

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGED 2433, Principles of agricultural Power: Electricity &amp; Internal Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td>AGED 2453, Application of Welding Technologies to Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGED 3443, Agricultural Equipment Hydraulic</td>
<td>3</td>
</tr>
<tr>
<td>AGED 3453, Agricultural Structural Systems</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Engineering or approved area</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total in option</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

### Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1033, Introduction to Organic and Biochemistry OR CHEM 1023, General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1031, Introduction to Organic and Biochemistry Lab. OR CHEM 1021, General Chemistry II Lab.</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4013, Microbiology and BIOL 2101, Microbiology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 1621, Introduction to Animal Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 3613, Nutritional Management of Domestic Animals</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 3633, Veterinary Anatomy and Physiology</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 2213, Genetic Improvement of Plants and Animals OR BIOL 3313, Genetics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

*Required for Pre-Veterinary Emphasis*
### Emphasis Area:
Student may select from one of the following career emphasis areas but should consult an adviser and design a program to meet the student’s particular career goals

#### Animal Science:
- AGEC 4673, Agricultural Business Management ................................................................. 3
- ANSC 2703, Principles of Poultry Production ............................................................................ 3
- ANSC 4683, Principles of Breeding .......................................................................................... 3
- ANSC 4673, Digestive Physiology and Nutrition of Animals .................................................. 3
- ANSC 4683, Theriogenology ..................................................................................................... 3

#### Pre-veterinary:
- ANSC 4673, Digestive Physiology and Nutrition of Animals .................................................. 3
- ANSC 4683, Theriogenology ..................................................................................................... 3
- CHEM 3103, Organic Chemistry I ........................................................................................... 3
- CHEM 3101, Organic Laboratory ............................................................................................. 1
- MATH 1003, Plane Trigonometry OR MATH 1054, Precalculus .............................................. 3-4
- PHYS 2004, General Physics I .................................................................................................. 4
- PHYS 2004, General Physics II ................................................................................................. 4
- CHEM 4243, Biochemistry .................................................................................................... 3

#### Poultry Industry Management:
- ANSC 2703, Principles of Poultry Production ............................................................................ 3
- ANSC 3693, Integrated Poultry Production ................................................................................ 3
- AGRI 4208, Internships in Agriculture (Min. 2.5 GPA required) .................................................. 3
- ANSC 4673, Agricultural Business Management .................................................................... 3

#### Food Science and Technology:
- FDST 2203, Introduction to Food Science .................................................................................. 3
- FDST 2223, Principles of Food Processing .................................................................................. 3
- FDST 2213, Food Chemistry .................................................................................................... 3
- FDST 3203, Food Quality Assurance ....................................................................................... 3
- FDST 4213, Food and Health .................................................................................................... 3
- ANSC 3693, Meat Science and Processing ............................................................................... 3

#### Upper Level Support

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT Electives or related area</td>
<td>15</td>
</tr>
<tr>
<td>HORT 2204, Calculus I OR MATH 2194, Survey of Calculus OR AGRI 4233, Experimental Agricultural Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>PSSC 3313, Plant Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PSSC 3811, Soil Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PSSC 1303, Plant Science Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Free Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students with this major must be taken as a core requirement.</td>
<td></td>
</tr>
<tr>
<td>CHEM 1011, General Chemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1003, Organic Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1001, Organic Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3113, Organic Chemistry III</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 3111, Organic Chemistry IV</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 4243, Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2204, Calculus I OR MATH 2194, Survey of Calculus OR AGRI 4233, Experimental Agricultural Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>PSSC 3313, Plant Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PSSC 3811, Soil Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PSSC 1303, Plant Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PSSC 3813, Plant Growth and Development</td>
<td>3</td>
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</tbody>
</table>

### Major in Animal Science Bachelor of Science in Agriculture

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td>36-39</td>
</tr>
<tr>
<td>Animal Science:</td>
<td>24</td>
</tr>
<tr>
<td>College of Agriculture Core Courses:</td>
<td>24</td>
</tr>
<tr>
<td>(see beginning of Agriculture section)</td>
<td></td>
</tr>
<tr>
<td>Major Requirements:</td>
<td>24</td>
</tr>
<tr>
<td>Animal Science:</td>
<td>18</td>
</tr>
<tr>
<td>College of Agriculture Core Courses:</td>
<td>24</td>
</tr>
<tr>
<td>(see beginning of Agriculture section)</td>
<td></td>
</tr>
<tr>
<td>Major Requirements:</td>
<td>24</td>
</tr>
<tr>
<td>Animal Science:</td>
<td>18</td>
</tr>
<tr>
<td>College of Agriculture Core Courses:</td>
<td>24</td>
</tr>
<tr>
<td>(see beginning of Agriculture section)</td>
<td></td>
</tr>
<tr>
<td>Major Requirements:</td>
<td>24</td>
</tr>
<tr>
<td>Animal Science:</td>
<td>18</td>
</tr>
<tr>
<td>College of Agriculture Core Courses:</td>
<td>24</td>
</tr>
<tr>
<td>(see beginning of Agriculture section)</td>
<td></td>
</tr>
<tr>
<td>Major Requirements:</td>
<td>24</td>
</tr>
<tr>
<td>Animal Science:</td>
<td>18</td>
</tr>
<tr>
<td>College of Agriculture Core Courses:</td>
<td>24</td>
</tr>
<tr>
<td>(see beginning of Agriculture section)</td>
<td></td>
</tr>
<tr>
<td>Major Requirements:</td>
<td>24</td>
</tr>
<tr>
<td>Animal Science:</td>
<td>18</td>
</tr>
<tr>
<td>College of Agriculture Core Courses:</td>
<td>24</td>
</tr>
<tr>
<td>(see beginning of Agriculture section)</td>
<td></td>
</tr>
<tr>
<td>Major Requirements:</td>
<td>24</td>
</tr>
<tr>
<td>Animal Science:</td>
<td>18</td>
</tr>
<tr>
<td>College of Agriculture Core Courses:</td>
<td>24</td>
</tr>
<tr>
<td>(see beginning of Agriculture section)</td>
<td></td>
</tr>
</tbody>
</table>
### Minor in Agricultural Business

<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>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### Minor in Agricultural Mechanics

<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

<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>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### Minor in Animal Science

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

### Minor in Plant Science

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

### Minor in Horticulture

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

### Minor in Food Science and Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 3653, Meat Science and Processing</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2203, Introduction to Food Science</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2213, Food Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2223, Principles of Food Processing</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2503, Food Safety and Sanitation - UAF on-line</td>
<td>3</td>
</tr>
<tr>
<td>FDST 3203, Food Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>FDST 330V, Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></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 designated 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 Applied Science**

**General Education Requirements:**

Refer to index for General Education Curriculum for Associate Degrees

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

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

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDST 2203, Introduction to Food Science</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2213, Food Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2223, Principles of Food Processing</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2503, Food Safety and Sanitation - UAF on-line</td>
<td>3</td>
</tr>
<tr>
<td>FDST 3203, Food Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>FDST 330V, Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Required Support:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 3233 Agriculture Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2103/1 Microbiology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>BCOM 2563, Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1013/1 Gen Chem 1 and Lab</td>
<td>4</td>
</tr>
<tr>
<td>ECON 2313, Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3123, Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>NRS 2203, Basic Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

**Electives**

| **Total**                                                             | **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

General Education Requirements:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1103</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763</td>
<td>The United States To OR Since 1876</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>(from General Education Curriculum)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>(1 hour activity)</td>
<td>1</td>
</tr>
<tr>
<td>Social Science</td>
<td>(from General Education Curriculum)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 25-26

Enhances the ability

Technical Requirements:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOED 1503</td>
<td>Instructional Planning and Materials in Technical and Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>VOED 1513</td>
<td>Methods of Technical and Vocational Teaching</td>
<td>3</td>
</tr>
<tr>
<td>VOED 1533</td>
<td>Student Services in Technical and Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>VOED 1543</td>
<td>Evaluation of Learning</td>
<td>3</td>
</tr>
<tr>
<td>VOED 1553</td>
<td>Management of Technical and Vocational Programs</td>
<td>3</td>
</tr>
<tr>
<td>VOED 2503</td>
<td>Program Development</td>
<td>3</td>
</tr>
<tr>
<td>VOED 2523</td>
<td>The Two-Year College in America</td>
<td>3</td>
</tr>
<tr>
<td>VOED 2533</td>
<td>History and Philosophy of Technical and Vocational Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 24

Professional Requirements:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1003</td>
<td>Introduction to Agribusiness</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 12243</td>
<td>Feeding the Planet</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 15

The fifteen hours in the technical requirement may be awarded for substitution of professional preparation, or work experience in teaching area, verified by the appropriate license, diploma, certificate, transcript, letter or National Occupation Competence Testing Institute (NOCTI) 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)
d. Each full year of professional employment in teaching area (1 hour, maximum 3)
e. Professional competence and expertise assessed by the National Occupation Competence Testing Institute (NOCTI) score

Credit for this course cannot be awarded until all other degree requirements have been satisfied and is awarded in VOED 2551, VOED 2552, VOED 2554, VOED 2558 with 15 hours. If any part or all of the 15-hour requirements of this section cannot be satisfied by taking these courses, additional coursework in, or related to, the teaching area must be taken. The remaining hours may be taken as courses in the student’s technical area.

Total 64-65

The university reserves the right to change course scheduling when circumstances dictate such changes.

Agriculture (AGRI)

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

1211.  Introductory Seminar in Agriculture  Introduction to issues, trends, disciplines in agriculture, organizational structure of the industry, curriculum, and career opportunities. Fall, Spring.

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. Spring, Fall.

2303.  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. Spring, Fall.

3233.  Applied Agricultural Statistics  Collection, tabulation, and analysis of agricultural data, activities of the state and federal crop reporting services. Spring, Fall.

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

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. Fall, Spring.

420V.  Internships in Agriculture  Supports 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. Spring, Fall, Summer.

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. Spring, Fall.

4233.  Experimental Agricultural Statistics  Fundamental concepts of experimental and statistical methods as applied to agricultural research. Spring, 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. Fall, Spring.

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. Fall, Spring.
Agricultural Business and Economics (AGEC)


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. Fall, Spring.

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. Fall, Spring.

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. Spring, 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. Spring.

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. Fall, 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. Fall.

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. Fall.

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. Spring.

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. Spring, odd.

4043. Land Economics Physical characteristics as related to land use, the economics of land use. Principles of land utilization, classification, conservation, zoning, and landuse planning. Prerequisite, AGEC 1003. Fall, 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. Spring, even.

Agricultural Education (AGED)

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. Fall, Spring.

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. Fall.

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. Spring, 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. Fall.

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. Spring, even.

3443. Leadership in Agriculture Principles and practices associated with development of agricultural leaders as individuals or teams from a practical and historical perspective. Developing skills needed to effectively work within agricultural organizations and with individual clientele. Prerequisite, SCOM 1203. Spring.

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

1602. Equitation Two hour laboratory course in the selection and care of tack, horsemanship, etiquette, grooming, and equitation. Demand.

1612. Intermediate Western Equitation Refinement of experienced riders skill 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. Fall, Spring.

1613. 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 from animals, reproduction, breeding and genetics, nutrients and digestion, lactation, behavior, and an overview of production systems. Fall, Spring.

1621. Introduction to Animal Science Laboratory Students will gain hands on work experience with managing livestock. Fall, Spring.

1622. Intermediate Huntseat Equitation and Jumping Refinement of the experienced riders 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. Fall, Spring.

2602. Principles of Dairying Introduction to the principles of dairy cattle selection and dairy technology. Lecture two hours. Demand.

2623. 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. Fall.

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

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. Fall, 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. Demand.

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. Fall.

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. Spring, 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. Fall.
4643. **Techniques of Animal Production**  
Practical work with herds. Required of all animal science majors. Laboratory three hours twice weekly. Demand.

4663. **Principles of Breeding**  
Basic application of genetic principles to the improvement of farm animals. Fall.

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. Spring.

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. Spring.

4691. **Advanced Animal Nutrition Laboratory**  
Designed to provide students with theories and skills associated with nutrition related laboratory analyses. Demand.

4693. **Integrated Poultry Management**  
Production principles and problem solving strategies used by vertically integrated poultry companies. Prerequisite, ANSC 2703 or permission of instructor. Fall, 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. Demand.

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

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. Demand.

478V. **Special Problems in Animal Science**  
Each student will develop a problem in students special interest field. This group will meet for two hours per week and report the progress on problems. Fall, Spring, Summer.

**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. Demand.

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. Spring.

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. Spring, Fall, or Summer.

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. Fall.

330V. **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. Demand.

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 of all majors. Fall.

**Horticulture (HORT)**

2203. **Urban Landscaping and Gardening**  
Principles and practices of residential horticulture emphasizing minimum environmental impact. Covers landscape design or maintenance, gardening, turf, interior plants, and pest control. A course designed for non majors. Lecture 2 hours per week, Laboratory 2 hours per week. Demand.

2253. **Fundamentals of Horticulture**  
Growth, fruiting habits, propagation, and culture of horticultural plants. Lecture two hours, laboratory two hours per week. Spring, odd.

2253. **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. Demand.

2273. **Vegetable Crops Production**  
Growth habits, soil and climate requirements, varietal characteristics, and pests of vegetable crops. Prerequisite, HORT 2253. Demand.

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. Fall, odd.

3263. **Pomology**  
Fruit production, fruiting habits, establishment and management of deciduous orchards. Lecture two hours, laboratory two hours per week. Prerequisite, HORT 2253. Demand.

3273. **Urban Landscaping and Gardening**  
The turf industry, characteristics, adaptation, and establishment of the grasses. Prerequisites, PSSC 2813, PSSC 2811, and HORT 2253. Fall, even.

3283. **Fundamentals of Horticulture**  
Growth, fruiting habits, propagation, and culture of horticultural plants. Lecture two hours, laboratory two hours per week. Prerequisite, HORT 2253. Demand.

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. Demand.

3293. **Landscape Plant Materials**  
Trees and shrubs and their uses in landscape. Lecture two hours, laboratory two hours per week. Prerequisite, HORT 2253. Spring, odd.

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. Spring, 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. Demand.
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. Spring, even.

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. Demand.

Special Problems in Horticulture  For students of senior standing. Approval of instructor and dean necessary. Fall, Spring, Summer.

Plant Propagation  Principles, practices, and methods employed in the propagation of plants. Prerequisite, HORT 2253. Fall, odd.

Plant and Soil Science (PSSC)

Plant Science Laboratory  Introduction to agronomic and horticultural concepts related to crop anatomy, growth and development, physiology, and pest identification and management. Spring.

Introduction to Plant Science  Agronomic and horticultural cropping systems including crop growth and development, crop physiology, crop ecology, environmental considerations, and production and protection practices. Fall, Spring.

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. Demand.

Field Crops  Field crops, types and varieties. Lecture two hours, laboratory two hours per week. Demand.

Soils Laboratory  Corequisite, PSSC 2813. Fall, Spring.

Soils  Origin, classification, physical and chemical properties of soil. Prerequisites, CHEM 1013 and CHEM 1011. Corequisite, PSSC 2811. Fall, Spring.

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. Spring.

Weeds and Weed Control  Identification and pest management of weeds in agronomic, horticultural, and urban systems. Survey of herbicides, their chemistry, toxicity, modes of action, uses, and environmental impact. Lecture two hours and laboratory two hours per week. Prerequisites, CHEM 1013 and PSSC 1303. Fall.

Plant Breeding  History of plant improvement, methods of plant breeding, and the basic application of these methods to various agronomic and horticultural crops. Fall, odd.

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. Fall.

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. Spring.
Teaching Internship (TIAG)

TIAG 4825. AGRICULTURAL TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIAG 4826. AGRICULTURAL TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

Technical and Vocational Education (VOED)

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. Demand.

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. Demand.

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 operation of a student organization as an integral component of a technical or vocational school program. Demand.

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. Demand.

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. Demand.

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. Demand.

2523. The Two Year College in America An examination of the history, philosophy, nature, and function of the two year college. Demand.

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. Demand.

255V. Experiential Learning in Technical and Vocational Education Covers professional work experience and 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. Demand.

4503. Foundations of Adult Education in Vocational Education Covers historical and philosophical development, comparison of vocational and nonvocational adult education, program development and evaluation, teaching methods, and issues and trends in adult vocational education programming. Spring, 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. Summer.

4522. Competency Based Curriculum in Vocational Education Study of the design features of a competency based approach to education with emphasis on practical application to the design of instruction using a competency based format. Fall.

4533. Methods of Organizing and Teaching Career Orientation Curricula, methods, and techniques involved in teaching career orientation as related to the fifteen occupational clusters in the world of work. Summer.

4553. Educators in Industry A course devoted to career awareness in relation to the modern workplace. The course is conducted in cooperation with local businesses and industries. Research, on site instruction, and work experiences are involved. Demand.

4573. Problems in Teaching Cooperative Education Teaching cooperative education in all vocational services of program areas, history, purposes, administration, methods, organization, and conduct of the programs. Demand.

4583. Methods and Materials for Teaching the Adult Emphasis on the methodologies, techniques, and materials applicable to the adult learner based upon his personal needs. Demand.
College of Business

Professor Len Frey, Dean
Professor C. William Roe, Associate Dean

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, 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 (MSiE), 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 continually 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.

<table>
<thead>
<tr>
<th>College of Business Core Courses</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>+ACCT 2003 and 2013, Principles of Accounting I and II</td>
<td>6</td>
</tr>
<tr>
<td>BCOM 2563, Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3013, Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CT 3503, Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>+ECON 2113, Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>+ECON 2313, Principles of Microeconomics</td>
<td>0 or 3</td>
</tr>
<tr>
<td>+ECON 2323, Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3715, Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>LAW 2023, Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MKMGT 3153, Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKMGT 4813, Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3013, Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1203, Oral Communication*</td>
<td>0 or 3</td>
</tr>
<tr>
<td>(Except International Business Studies)</td>
<td></td>
</tr>
</tbody>
</table>

* Required ONLY if not taken to satisfy a part of the (a) Must be completed before enrolling in junior/senior level classes.
Minor in Electronic Commerce

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 3263, Web Development</td>
<td>3</td>
</tr>
<tr>
<td>OR JOUR 4373, Internet Communications</td>
<td></td>
</tr>
<tr>
<td>CIT 4453, Global E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2143, Visual Basic</td>
<td></td>
</tr>
<tr>
<td>CIT 4883, Internship (in area in E-Commerce)</td>
<td></td>
</tr>
<tr>
<td>or MKTG 4283, Internship</td>
<td></td>
</tr>
<tr>
<td>JOUR 3673, Digital Design</td>
<td></td>
</tr>
</tbody>
</table>

Take all of the following: 6

Take two of the following: 6

BSYS 2533, Internet, Intranet, & E-Mail Application
CIT 2103, Visual BASIC
CIT 4883, Internship (in area in E-Commerce) or MKTG 4283, Internship
JOUR 3673, Digital Design

Total Hours 18

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.

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 course, 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 adviser.

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.

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-McLlin

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, in not-for-profit entities, and in public accounting.

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 wish to 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.

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 2253

College of Business Core Courses:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3003 AND 3013, Intermediate Accounting</td>
<td>6</td>
</tr>
<tr>
<td>(and II)</td>
<td></td>
</tr>
<tr>
<td>ACCT 3023, Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4003, Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4013, Tax Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4023, Advanced Accounting and International Issues</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4303, Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 4053, Auditing</td>
<td>3</td>
</tr>
<tr>
<td>LAW 4043, Law of Business Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Accounting Elective (ACCT 430V, Special Problems in Accounting and ACCT 4783, Internship in Accounting MAY NOT be used to satisfy the Accounting Elective)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>

Total 126

Minor in Accounting

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2333, Economics Issues and Concepts, or ECON 2323, Principles</td>
<td>3</td>
</tr>
<tr>
<td>of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>ACCT 2003, Principles of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2013, Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3003, Intermediate Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3013, Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>Junior-Senior Accounting Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Total 21
Department of Economics and Finance

Associate Professor Jim Washam, Chair; Professors Brown, Crawford, Dale, Kesselring, Latanich, Marburger, Taylor; 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 major graduates 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 ......................................................... 48-49

**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>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 3763</td>
<td>Financial Institutions and Markets</td>
<td></td>
</tr>
<tr>
<td>FIN 4723</td>
<td>Investments</td>
<td></td>
</tr>
<tr>
<td>FIN 4753</td>
<td>Capital Management</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Emphasis Area:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emphasis Area:</td>
<td>Banking:</td>
</tr>
<tr>
<td>Banking:</td>
<td>FIN 3003, Intermediate Accounting I</td>
</tr>
<tr>
<td></td>
<td>FIN 3763, Financial Risk, Management</td>
</tr>
<tr>
<td></td>
<td>FIN 4743, Managerial Finance</td>
</tr>
<tr>
<td></td>
<td>FIN 4763, Bank Management</td>
</tr>
<tr>
<td></td>
<td>FIN 4773, Advanced Bank Management</td>
</tr>
</tbody>
</table>

### Corporate Finance

Sem. Hrs.

**Real Estate:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>REI 4003</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>FIN 4743</td>
<td>Financial Institutions and Markets</td>
<td></td>
</tr>
<tr>
<td>FIN 4753</td>
<td>Capital Management</td>
<td></td>
</tr>
</tbody>
</table>

Select Three of the Following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 4103</td>
<td>Tax Accounting</td>
<td></td>
</tr>
<tr>
<td>ECON 4343</td>
<td>Managerial Economics</td>
<td></td>
</tr>
<tr>
<td>FIN 3323</td>
<td>Money and Banking</td>
<td></td>
</tr>
<tr>
<td>FIN 3773</td>
<td>Financial Risk Management</td>
<td></td>
</tr>
<tr>
<td>FIN 4763</td>
<td>Bank Management</td>
<td></td>
</tr>
<tr>
<td>IB 4103</td>
<td>International Trade</td>
<td></td>
</tr>
<tr>
<td>REI 4423</td>
<td>Real Estate Finance</td>
<td></td>
</tr>
<tr>
<td>REI 4433</td>
<td>Real Estate Appraising</td>
<td></td>
</tr>
<tr>
<td>REI 4443</td>
<td>Real Estate Appraising and Analysis of Income Property</td>
<td></td>
</tr>
<tr>
<td>REI 4593</td>
<td>Internship in Real Estate and Insurance</td>
<td></td>
</tr>
</tbody>
</table>

Select One of the Following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3053</td>
<td>Professional Selling and Sales Management</td>
<td></td>
</tr>
<tr>
<td>ACCT 4013</td>
<td>Tax Accounting</td>
<td></td>
</tr>
<tr>
<td>REI 4443</td>
<td>Real Estate Appraising and Analysis of Income Property</td>
<td></td>
</tr>
</tbody>
</table>

**Minor in Real Estate and Insurance**

Sem. Hrs.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3003</td>
<td>Fundamental Accounting Concepts, OR ACCT 2013, Principles of Accounting II</td>
<td></td>
</tr>
<tr>
<td>ECON 2333</td>
<td>Economic Issues and Concepts, OR ECON 2323, Principles of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>LAW 2323</td>
<td>Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td>REI 4600</td>
<td>Internship in Real Estate and Insurance</td>
<td></td>
</tr>
</tbody>
</table>

| Total      | Minor in Real Estate and Insurance  | 12 |

### Banking:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3003</td>
<td>Intermediate Accounting I</td>
<td></td>
</tr>
<tr>
<td>FIN 3763</td>
<td>Financial Risk, Management</td>
<td></td>
</tr>
<tr>
<td>FIN 4743</td>
<td>Managerial Finance</td>
<td></td>
</tr>
<tr>
<td>FIN 4763</td>
<td>Bank Management</td>
<td></td>
</tr>
<tr>
<td>FIN 4773</td>
<td>Advanced Bank Management</td>
<td></td>
</tr>
</tbody>
</table>

Select One of the Following:  

<table>
<thead>
<tr>
<th>Acct</th>
<th>Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3013</td>
<td>Intermediate Accounting II</td>
<td></td>
</tr>
<tr>
<td>ECON 3323</td>
<td>Money and Banking</td>
<td></td>
</tr>
<tr>
<td>ECON 4343</td>
<td>Managerial Economics</td>
<td></td>
</tr>
<tr>
<td>FIN 3113</td>
<td>Business Statistics II</td>
<td></td>
</tr>
<tr>
<td>IB 3113</td>
<td>International Financial Management &amp; Banking</td>
<td></td>
</tr>
<tr>
<td>REI 4423</td>
<td>Real Estate Finance</td>
<td></td>
</tr>
</tbody>
</table>

| Total      | Banking:                             | 18 |

---

**Note:** The specific requirements and courses listed above are subject to change and should be confirmed with the Department of Economics and Finance for the most current information.
### Bachelor of Science in Business Administration

**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:**
MUST INCLUDE ONE COURSE EACH FROM THE FOLLOWING GROUPS:

**Accounting Elective**
- ACCT 3023, Cost Accounting ........................................ 3
- ACCT 4003, Managerial Accounting
- ACCT 4013, Tax Accounting
- ACCT 4153, Fraud/Examinations

**Finance Elective**
- FIN 3703, Financial Institutions and Markets
- FIN 4723, Investments
- FIN 4743, Managerial Finance
- FIN 4753, Capital Management

**International Elective**
- ECON 3343, Comparative Economic Systems
- ECON 4352, Economic Development
- FIN 3813, International Finance/Management and Banking
- IB 4103, International Trade

**Macro Economics Elective**
- ECON 3323, Money and Banking
- ECON 3353, Macroeconomic Analysis
- ECON 3363, Labor Economics
- ECON 4323, Economic Policy Analysis

**Management Elective**
- MGMT 3143, Human Resource Management
- MGMT 3183, Entrepreneurship
- MGMT 3613, Leadership
- MGMT 4123, International Management
- MGMT 4163, Small Business Management

**Marketing Elective**
- MKTG 3033, Advertising
- MKTG 3043, Retailing
- MKTG 4013, Service and Non-Profit Market
- MKTG 4043, Consumer Behavior
- MKTG 4113, International Marketing
- MKTG 430V, Any combination of the 1.5 hr courses for 3 hours

**Micro Economics Elective**
- ECON 3313, Microeconomic Analysis
- ECON 4303, Sports Economics
- ECON 4313, History of Economic Thought
- ECON 4333, Government Regulations of Business
- ECON 4343, Managerial Economics

**Jr/Sr Business Elective**
- .................................................................................. 3

**Electives:** (must include at least 3 upper-level hours)

- .................................................................................. 11-20

**Total** 24

- .................................................................................. 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) .......................................................................................................................... 39-42

**Major Requirements:**
- ECON 3313, Microeconomic Analysis ........................................ 3
- ECON 3323, Money and Banking ........................................ 3
- ECON 3353, Macroeconomic Analysis .................................... 3
- ECON 4313, History of Economic Thought ................................ 3
- Junior/Senior Economics Electives ........................................... 12

**Finance Elective**
- FIN 3703, Financial Institutions and Markets
- FIN 4723, Investments
- FIN 4743, Managerial Finance
- FIN 4753, Capital Management

**International Elective**
- ECON 3343, Comparative Economic Systems
- ECON 4352, Economic Development
- ECON 4363, Global Environmental Policies
- ECON 4683, Special Problems in Economics

**Public Policy and Business:** (Select one of the following)
- ECON 4323, Money and Banking ........................................ 3
- ECON 4333, Economic Policy Analysis ................................... 3
- ECON 4333, Government Regulation of Business .................... 3
- ECON 4363, Global Environmental Policies ......................... 3
- ECON 4683, Special Problems in Economics ......................... 3

**Theory of the Firm:** (Select one of the following)
- ECON 4313, History of Economic Thought ................................ 3
- ECON 4343, Managerial Economics .................................... 3
- ECON 4683, Special Problems in Economics ......................... 3

**Electives:**

- .................................................................................. 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:**
- CIT 3103, Management Information Systems ....................... 3
- ECON 2313, Principles of Macroeconomics ........................... 3
- ECON 3323, Principles of Microeconomics .......................... 3
- ECON 3313, Microeconomic Analysis .................................... 3
- ECON 3323, Money and Banking ........................................ 3
- ECON 3353, Macroeconomic Analysis .................................... 3
- ECON 4313, History of Economic Thought ............................ 3
- Economics Electives ......................................................... 9
- History Electives ............................................................. 3
- Political Science Electives ................................................ 3
- Sociology Elective ........................................................... 3
- ................................................................. 39-42

* Required ONLY if not taken to satisfy a part of the General Education Requirements
### Electives:

<table>
<thead>
<tr>
<th>Major in Economics</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>39-21</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>124</td>
</tr>
</tbody>
</table>

### General Education Requirements:

Sem. Hrs.

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

Must take SCOM 1203, Oral Communications to satisfy Critical Thinking component

### Language Requirement:

Sem. Hrs.

| Foreign Language (refer to index for page reference) | 0-12 |

### Major Requirements:

**Sem. Hrs.**

| ECON 2313, Principles of Macroeconomics | 3 |
| ECON 3313, Microeconomic Analysis | 3 |
| ECON 2333, Economic Issues and Concepts, OR ECON 2353, Principles of Microeconomics | 3 |
| ENG 3013, Technical Writing | 3 |
| LAW 2023, Legal Environment of Business | 3 |
| PHIL 1503, Logic and Practical Reasoning | 3 |
| SCOM 2243, Principles of Argumentation | 3 |

**Total 21-24**

### Electives:

Sem. Hrs.

| Economics Electives (choose any four courses among the following) | 12 |
| ECON 4103, International Trade | |
| ECON 4323, Economic Policy Analysis | |
| ECON 4333, Government Regulation of Business | |
| ECON 4363, Global Environmental Policies | |
| MGMT 3163, Labor Relations and Collective Bargaining | |

**Law Electives** (choose any one course among the following) | 3

| LAW 4033, Law of Commercial Trade | |
| LAW 4043, Law of Business Organizations | |
| LAW 4063, Employment Law | |

**Philosophy Electives** (choose any two courses among the following) | 6

| PHIL 3703, Philosophy and Law | |
| PHIL 4703, Contemporary Ethical Issues | |
| PHIL 4743, Social and Political Philosophy | |

**Political Science Electives** (choose any two courses among the following) | 6

| POSC 3123, American Constitutional Law | |
| POSC 3173, Civil Liberties | |
| POSC 3183, Criminal Law and the Constitution | |

**Free Electives** | 12-30

**Total 124**

### Minor in General Business

Sem. Hrs.

| ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2013, Principles of Accounting | 3 |
| *ECON 2333, Economic Issues and Concepts, OR ECON 2353, Principles of Microeconomics | 3 |
| *FIN 3713, Business Finance | 3 |
| LAW 2023, Legal Environment of Business | 3 |
| MGMT 3153, Organizational Behavior | 3 |
| MKTG 3013, Marketing | 3 |
| Junior-Senior College of Business Elective | 3 |

*Required only if not taken to satisfy general education requirements. **Total 18-21**

### Department of Computer and Information Technology

Associate Professor John Seydel, Chair; Professors Replogle, 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:**

Sem. Hrs.

| Refer to Index for General Education Curriculum for Baccalaureate Degrees | 46-49 |

(MUST complete Math 2143, Business Calculus with “C” or better)

(MUST complete ANTH 2213, Anthropology or SOC 2213, Sociology)

**College of Business Core Courses:**

Sem. Hrs.

| (see beginning of Business section) | 36-42 |
Major Requirements (Grade of "C" or better required):

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 2033, Visual BASIC/Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2523, Telecommunications Essentials</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3033, Advanced Visual BASIC Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3403, Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3413, Advanced Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3603, Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3623, LAN Administration</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4103, Advanced LAN Administration</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4453, Technologies for Global E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4653, Automatic Data Capture</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4853, IT Project Management</td>
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Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>2-11</td>
<td></td>
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<tr>
<td>Total</td>
<td>126</td>
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</tbody>
</table>

Minor in Computer and Information Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 2x3/CS 2x3, Programming Course</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3403, Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3013, Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2523, Telecommunications Management</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3603, Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3623, LAN Administration</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

Major in Computer and Information Technology

General Education Requirements:

- Refer to index for General Education Curriculum for Associate in Science
- **Specific General Education Requirements**
  - CIT 2523, Principles of Macroeconomics
  - ANTH 2233, Introduction to Cultural Anthropology

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2003, Principles of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CIT 1503, Microcomputer Applications (see note below)</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2033, Visual Basic/Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2523, Telecommunications and Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3013, Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3403, Database Management</td>
<td>3</td>
</tr>
<tr>
<td>MIS/CS, Electives (excluding CS 1043)</td>
<td>6</td>
</tr>
<tr>
<td>SCOM 1203, Oral Communications OR BCOM 2563, Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>27</td>
</tr>
</tbody>
</table>

(Nota: CIT 1503 requirement can be satisfied by successful completion of a similar course or by passing the Computer Science proficiency exam)

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**
  - ENG 1003, Composition I 3
  - ENG 1013, Composition II 1

- **Business knowledge component**
  - ACCT 2003, Principles of Accounting I 3
  - Business Electives 6

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
- MATH 1023, College Algebra
- POBSC 2103, Introduction to United States Government, as one of the Social Sciences options
- PSY 2013, Introduction to Psychology, as one of the Social Sciences options
- SOC 2213, Principles of Sociology

College of Business Core Courses:

- **Sem. Hrs.**
  - 39-42

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUED 4503, Business Technology Methods</td>
<td>3</td>
</tr>
<tr>
<td>BUED 4513, Directed Field Experiences</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2543, Keyboarding for Professionals</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3633, Integrated Software</td>
<td>3</td>
</tr>
<tr>
<td>CIT 4533, Word Processing II</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3613, Leadership</td>
<td>3</td>
</tr>
<tr>
<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</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDBU 4533, Methods and Materials in the Teaching of Business Technology</strong></td>
<td>3</td>
</tr>
<tr>
<td>PSY 3703, Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCED 2514, Introduction to Secondary Teaching</td>
<td>4</td>
</tr>
<tr>
<td><strong>SCED 3515, Performance Based Inst. Design (junior year)</strong> and before EDBU 4533, Methods and Materials in Teaching of Business Technology</td>
<td>5</td>
</tr>
<tr>
<td><strong>SCED 4713, Educational Measurement with Computer Applications</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>SE 5643, The Exceptional Student in the Regular Classroom</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>TBU 4826, Student Teaching in the Secondary School</strong></td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
</table>

* See Bachelor of Science in Education Degree—College of Education

**Prerequisite: Admission into the Teacher Education Program**

Additional General Education Requirements for Teacher Education:

<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 elective</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>135-138</td>
</tr>
</tbody>
</table>

General Education Requirements:

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

Associate of Science

**Prerequisite: Admission into the Teacher Education Program**

Bachelor of Science in Education

**Prerequisite: Admission into the Teacher Education Program**

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**
  - ENG 1003, Composition I 3
  - ENG 1013, Composition II 1

- **Business knowledge component**
  - ACCT 2003, Principles of Accounting I 3
  - Business Electives 6
Department of Management and Marketing

Professor Gail Hudson, Chair; Professors Hester, Nonis; Associate Professors Bevill, Roach; Assistant Professors Fenner, Horner, Relyea, Philhous, Studdard; Instructors Valentine.

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 nonbusiness 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements:</td>
<td>46-49</td>
</tr>
<tr>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees</td>
<td></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 2233

College of Business Core Courses: (see beginning of Business section)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business Core Courses:</td>
<td>39-42</td>
</tr>
</tbody>
</table>

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td></td>
</tr>
<tr>
<td>MKTG 3023, Applied Research</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3123, Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3143, Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3163, International Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4163, Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>Select six (6) semester hours from the following electives</td>
<td>6</td>
</tr>
<tr>
<td>ACCT 4003, Managerial Accounting</td>
<td></td>
</tr>
<tr>
<td>MGMT 3163, Labor Relations and Collective Bargaining</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4143, Organizational Change and Development</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4193, Management Internship</td>
<td></td>
</tr>
<tr>
<td>MGMT 4393, Management of Service Operations (or MKTG 4013, Service and Non-Profit Marketing)</td>
<td></td>
</tr>
</tbody>
</table>

Emphasis Area:

- Students selecting an emphasis in Human Resource Management have the following requirements in lieu of those Major Requirements listed above.

Human Resource Management:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Resource Management:</td>
<td></td>
</tr>
<tr>
<td>MKTG 3023, Applied Research</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3143, Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4123, International Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3163, Labor Relations and Collective Bargaining</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4173, Compensation Management</td>
<td>3</td>
</tr>
<tr>
<td>Select three from the following EMPHASIS AREA ELECTIVES</td>
<td>9</td>
</tr>
<tr>
<td>ACCT 4003, Managerial Accounting</td>
<td></td>
</tr>
<tr>
<td>BCOM 3573, Managerial Communication</td>
<td></td>
</tr>
<tr>
<td>ECON 3363, Labor Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 4343, Managerial Economics</td>
<td></td>
</tr>
<tr>
<td>LAW 4063, Employment Law</td>
<td></td>
</tr>
<tr>
<td>MGMT 3173, Career Management</td>
<td></td>
</tr>
<tr>
<td>MGMT 4143, Organizational Change and Development</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4193, Management Internship</td>
<td></td>
</tr>
</tbody>
</table>

Free Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free Electives:</td>
<td>16-19</td>
</tr>
<tr>
<td>Total</td>
<td>126</td>
</tr>
</tbody>
</table>

Major in Marketing
Bachelor of Science

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements:</td>
<td>46-49</td>
</tr>
<tr>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees</td>
<td></td>
</tr>
</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 2233

College of Business Core Courses: (see beginning of Business section)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business Core Courses:</td>
<td>39-42</td>
</tr>
</tbody>
</table>

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td></td>
</tr>
<tr>
<td>MKTG 3023, Applied Research</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3033, Advertising and Promotion</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3073, Market Planning</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4063, Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4083, Marketing Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Emphasis Area (Marketing Management or Logistics)</td>
<td>9</td>
</tr>
</tbody>
</table>

Total 30
Emphasis Area: (Select one of the following emphasis areas)

Marketing Management:
MKTG 4113, International Marketing ................................................................. 3
MKTG 4123, International Management ............................................................. 3
Select two (2) from the following course list. At least one (1) course must be in MKTG ........................................................................ 6
ACCT 4003, Managerial Accounting ................................................................. 3
BCOM 3073, Managerial Communication ......................................................... 3
ECON 4333, Government Regulation of Business ........................................... 3
ECON 4343, Managerial Economics ................................................................. 3
MKTG 4013, Service and Non-Profit Marketing .............................................. 3
MKTG 4033, Marketing Internship ................................................................... 3

Logistics:
MKTG 3093, Professional Selling and Sales Management ................................ 3
MKTG 4113, International Marketing ............................................................... 3
Select one (1) from the following course list ................................................. 3
ACCT 4003, Managerial Accounting ................................................................. 3
BCOM 3073, Managerial Communication ......................................................... 3
ECON 4333, Government Regulation of Business ........................................... 3
ECON 4343, Managerial Economics ................................................................. 3
MKTG 4113, International Management .......................................................... 3
MKTG 4013, Service and Non-Profit Marketing .............................................. 3
MKTG 4033, Carrier Management .................................................................. 3
MKTG 4273, Transportation Internship ............................................................ 3

Free Electives:

Sem. Hrs.

Total 125

Major in International Business
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

Language Requirement: French, German, or Spanish .......................... 12
Includes the two elementary and the two intermediate courses in a language and the corresponding course for that language from the following:
FR 3003, French Conversation
GER 3183, German Conversation
SPAN 4013, Spanish for International Business

No waiver will be allowed for the language requirement. All students must take the commercial or conversational foreign language course in the language they select to meet the foreign language requirement.

College of Business Core Courses: (see beginning of business section) ........................................................................ 36-39

Major Requirements:
AGEC 4023, International Commodity Marketing ....................................... 3
AGEC 4053, Technologies for Global E-Commerce ......................................... 3
IB 4273, International Business Practicum ...................................................... 3
IB 4283, International Business Practicum ...................................................... 3
IB 4283, International Business Practicum ...................................................... 3
IB 4363, Global Environmental Policies ....................................................... 3
IB 4113, International Marketing .................................................................... 3
MKTG 3183, Entrepreneurship ....................................................................... 3
MKTG 4123, International Management .......................................................... 3
Any two of the following: ............................................................................. 6
ACCT 4143, International Accounting
AGEC 4023, International Commodity Marketing
ECON 3343, Comparative Economic Systems
ECON 4333, Economic Development
GEOG 3603, World Regional Geography
IB 4113, International Law
IB 4273, Special Problems in International Business
SOM 4253, Intercultural Communications

Any one of the following: .............................................................................. 3
POSC 3203, Introduction to Comparative Politics
POSC 3213, African Political Systems
POSC 3223, European Political Systems
POSC 3233, Chinese Political Systems
POSC 4213, Soviet Political Systems
POSC 4223, Middle Eastern Political Systems

Any one of the following: .............................................................................. 3
POSC 3003, Introduction to International Politics
POSC 3313, American Foreign Policy

Any three of the following:** ......................................................................... 9
GEOG 3603, World Regional Geography
GEOG 3643, Introduction to Cultural Geography
GEOG 3653, Geography of Asia
GEOG 3663, Geography of Africa
GEOG 3683, Economic Geography
GEOG 3713, Geography of Europe and the U.S.S.R.
GEOG 4613, Conservation of Natural Resources
HIST 3103, Soviet Russia
HIST 3153, Latin America, National Period
HIST 3143, Modern China
HIST 3153, Modern Japan
HIST 4253, Modern Germany
HIST 4273, Mexico
HIST 4293, Modern Middle East
SOM 4253, Intercultural Communications

** or any approved upper level art history, theatre history, literature, or philosophy courses shown on a list kept by the Coordinator for International Business.

Electives:

Sem. Hrs.

Total 126-137

Minor in Entrepreneurship

Sem. Hrs.

FIN 4613, New Venture Financing .................................................................. 3
MKTG 3183, Entrepreneurship ....................................................................... 3
MKTG 4163, Small Business Management ..................................................... 3
MKTG 4273, Market Planning ......................................................................... 3
Any two of the following:** ......................................................................... 6
CT 4103, Marketing Information Systems
MGMT 3183, Human Resource Management
MGMT 3151, Organizational Behavior
MGMT 3183, Leadership
MGMT 4143, Organizational Change & Development
MKTG 4163, Small Business Management
MKTG 4183, Family Business Management
MKTG 4193, Internship

Total 18
Minor in Management

Sem. Hrs.
ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2003, Principles of Accounting I 3
ECON 2323, Principles of Microeconomics, OR ECON 2333, Economic Issues and Concepts 3
MGT 3153, Organizational Behavior 3
SELECT THREE OF THE FOLLOWING: 9
MGT 3143, Human Resource Management
MGT 3163, Labor Relations and Collective Bargaining
MGT 3613, Leadership
MGT 4103, Small Business Management
MGT 4163, Internship

Total 18

COLLEGE OF BUSINESS 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.

DEPARTMENT OF ACCOUNTING AND LAW

Accounting (ACCT)

3003. 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. Fall, Spring, Summer.

3013. 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. Fall, Spring, Summer.

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. Fall, Spring.

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. Spring, Summer.

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. Fall, Spring.

3034. Cost Accounting II Continuation of Cost Accounting I. Includes decision models and cost information, cost allocation, systems choice and management control. Prerequisite, ACCT 3023. Spring.

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. Fall, Spring.

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. Fall, Spring.

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. Fall, Spring.

4033. Accounting Information Systems Study of the role, design, characteristics, and function of accounting information systems. Prerequisites, ACCT 3003, ACCT 3023 with a grade of C or better, and CIT 3013 or consent of instructor. Spring, Summer.

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. Fall, Summer.

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. Spring.

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. Fall, Summer.

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. Fall.

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. Spring.
430V. Special Problems in Accounting Individual problems or topics in accounting arranged in consultation with the instructor. Must be approved by department chair. Demand.

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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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. Spring.

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. Fall.

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. Fall.

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. Student must have satisfied College of Business Computer Proficiency Requirement. Fall, Spring, Summer.

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. Fall, Spring, Summer.

2323. Principles of Microeconomics Principles of resource allocation, supply and demand, consumer behavior, costs of production, the competitive model, oligopoly, and factor markets. Fall, Spring, Summer.

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. Fall, Spring.

3113. Data Analysis Computer integrated analysis of descriptive and inferential business statistics with an emphasis on the application of statistical techniques and interpretation. Prerequisite, ECON 2113. Demand.

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 noncompetitive market structures. Prerequisites, ECON 2313 and 2323. Fall.

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 2313 and 2323. Fall, Spring, Summer.

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. Spring.

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. Spring.

3363. Labor Economics The economics of labor markets, factors affecting economy 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 2313 and 2323. Spring, odd.

3703. Internship Practice experience in economic research and development. Permission of department chair and internship director required. Demand.

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. Fall, Spring, Summer.

4143. Export Policy and Procedures Provides the rationale for exports and provides training on the skills for managing an export business. Coverage includes export promotion and incentives, lines and letters of credit, foreign exchange issues, international trade logistics, export documentation, and security and regulatory issues. Prerequisites, Completion of 60 hours. Spring.

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 the collective bargaining, cartel behavior, game theory, antitrust issues, and public finance. Prerequisite, ECON 2323. Fall.


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. Summer, 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. Spring, even.

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. Fall, Spring, Summer.
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. Fall, Spring, Summer.

406V 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. Summer.

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 instructors approval. Demand.

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 corporation, including cash flows, securities, financial structures, expansion, and acquisitions. Prerequisite, ACCT 2013 or 2023. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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. Fall, Spring.

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. Fall.

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. Spring.

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. Fall, Spring.

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. Fall, Spring.

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 bankruptcies. Prerequisite: FIN 3713. Fall, Spring.

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. Fall.

4773. Advanced Bank Management  Applications of financial management techniques to ban management decisions through experiential learning opportunities. Computer based analysis, simulations, and written and oral presentations. Prerequisite, FIN 4763. Spring.

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. Fall, Spring, Summer.

489V. Special Problems in Finance  Individual problems in finance arranged in consultation with the instructor. Must be approved by department chair. Fall, Spring, Summer.
4433. Real Estate Appraising  Factors influencing real property values, application of three approaches in determining the value of residential, commercial, and industrial properties.  Fall.

4443. Appraisal 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.  Spring, even.


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.  Fall.

459V. 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.  Fall, Spring, Summer.

460V. 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.  Demand.

DEPARTMENT OF COMPUTER AND INFORMATION TECHNOLOGY

Computer Information Technology (CIT)

1503. Microcomputer Applications  Students will learn basic computer skills that can be used immediately, throughout college, and beyond.  Emphasis on learning basic office applications in basic office applications in word processing, spreadsheets, databases, and presentation graphics.  Fall, Spring.

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.  Completion of compute proficiency requirements required.  Fall, Summer.

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.  Demand.

2413. Word Processing I  Introduction to word processing concepts and applications.  Prerequisite, Ability to keyboard.  Fall, Demand.

2523. Telecommunications & Networking Essentials  This course will examine basic networking fundamentals.  These include networking media, connectivity, devices, telecommunications protocols, and different networking models.  Fall, Spring, Summer.

2533. Internet, Intranet, Email Applications  Students will develop technology skills and research strategies using the Internet, Intranet, and Email.  Basic computer competency recommended.  Demand

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.  Fall, Spring, Summer.

3013. Management Information Systems  Provides understanding of information needs of management, information technology used by various business subsystems, and how technology can be utilized for competitive advantage.  Fall, Spring, Summer.  CIT 3013 is a prerequisite or corequisite for ALL upper level CIT courses.

3033. Advanced Visual BASIC Programming  Second course in Visual Basic programming with emphasis on creating multiple document applications, classes, active server pages, ADO.NET, and reading and writing files.  Prerequisite, CIT 2033.  Spring.

3253. Principles of RPG Programming  Programming in RPG, with emphasis on business management-type problems in environments involving midrange computers, such as the IBM AS/400.  Prerequisites: C or better grades in CIT 1503 or CS 1043, and CIT 2033, CS 2173, or CS 2183.  Demand.

3273. Modern Programming Languages  Students will be required to solve typical business and industry problems using a widely accepted application programming language.  Prerequisites, successful completion of a programming course with a C or better.  Fall.

3303. Interactive Programming  Serves to build on students current skills with the Java programming language to enable students to solve business and industry related problems effectively.  Prerequisite, CS 2173 with a C or better.  Spring.

3353. Web Site Design and Development  Basic design principles of building web pages, site management, and developmental for various browser environments.  Includes HTML, style sheets, client side and server side scripting, and related technologies.  Prerequisite, Previous programming language.  Fall.

3403. Database Management  Discuss enterprise wide database theory and Structured Query Language, SQL, with the use of industry standard DBMS, ORACLE.  Prerequisites, CIT 1503 or equivalent, CIT 3013.  Fall, Spring, Summer.

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.  Spring.

3463. Multimedia Technology  Introduces the student to various electronic means of presenting information of professional design and quality using presentation software.  Spring.

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.  Fall, Spring, Summer.

3533. Microcomputer Applications II  Continuation of CIT 1503 to cover topics in the area of operating systems, word processors, spreadsheets, presentation techniques, and PC databases.  Prerequisite, CIT 1503 or demonstrated proficiency.  Fall, Spring.

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.  Fall, Spring, Summer.
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. Fall, Spring, Summer.

3853. **Computer Forensics** Students are introduced to information systems role in forensic computing. Emphasis will be on the retrieval, preservation, and analysis of computer data which might be used in legal cases. Suggest pervious criminology courses or experience for OSC majors before enrolling. Prerequisite, CIT 1503 or CS 1043. Fall.

405V. **Information Resource Management** Examines the integration of management information technology into the mainstream of business functions. Emphasis is placed on resource planning on an enterprise wide scale. Spring.

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. Fall, Spring, Summer.

4103. **Advanced LAN Administration** Advanced networking administration issues are covered as they relate to local area networks. Students will be introduced to advanced client and server management topics necessary to administer a large complex network. Prerequisite, CIT 3623 or prior network experience. Spring.

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. Fall.

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. Spring.

4453. **Global E-Commerce** Provides an understanding of the technologies behind Ecommerce and how they enable the delivery of goods and services using electronic formats. Spring.

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. Spring.

4533. **Word Processing II** Advanced word processing concepts and applications. Prerequisite, CIT 2413 or consent of instructor. Spring, Demand.

4593. **Business Technology Field Experience** Provides business technology teachers, under direct supervision, the opportunity to develop and refine their technology competencies in business occupations. Intended for BSE majors. Summer.

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. Spring.

4613. **Operations Planning Control** Procedures and information technologies related to operations planning and control, quality, inventory, maintenance, and product planning systems. Prerequisite, CIT 3523. Demand.

4653. **Automatic Data Capture** Methods, technologies, systems, and standards used in supply chain information systems and ebusiness for automatically identifying objects, and collecting and transferring data. Technologies such as bar coding, RFID, smart cards, magnetic stripping, biometrics, GPS, real time locating, and voice data entry, as well as their business applications are addressed. Fall.

4823. **LAN Design** Students will be required to complete a complex network design for a model company. The design will include hardware and software installation, database design and replication, and implementation of various troubleshooting models. Prerequisite, CIT 3523 or CIT 3623 or prior network experience. Summer.

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. Spring, Summer.

4863. **Current Topics in CIT** The content of this course will be based upon current issues within the business world as they relate to the use of computer and information technology. Prerequisites, minimum of 60 hours and CIT 3013. Demand.

488V. **Internship in CIT** 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. Fall, Spring, Summer.

**Business Education (BUED)**

429V. **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. Demand.

4503. **Business Technology Methods** The present status and requirements of office personnel, and the materials, facilities, and equipment needed. Special attention is given to instructional innovations including simulation, practice sets, and computer instruction. Special course fees may apply. Fall.

4513. **Directed Field Experience** Provides business technology teachers, under direct supervision, the opportunity to develop and refine vocational competencies in office occupation. Special course fees may apply. Summer.

**Business Technology (BSYS)**

1523. **Keyboarding I** Introduces the student to the computer keyboard for increased proficiency of entering data in the proper format. Fall, Spring, Summer.

439V. **Special Problems in Business Systems** Individual problems in Business Systems arranged in consultation with the instructor, must be approved by the department chair.

**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. Fall, Spring, Demand.

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. Fall, Spring, Demand.
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. Fall, Spring, Summer.

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. Fall, Demand.

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. Demand.

3183. Entrepreneurship  Explores the nature of entrepreneurial activity, the basics of business plan development, new venture creation, and small business strategic planning. Fall.

3193. Social Impact Management  Examines the interdependence of business and society. Students will develop skills to manage social impacts and divergent stakeholder perspectives. Demand.

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. Spring, Demand.

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. Fall, Spring, Demand.

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. Demand.

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 firms resources, evaluating the firms objectives, identifying sensitive problem areas, and formulating an appropriate business plan. Students are expected to possess multiple disciplinary skills and be able to integrate these skills in the management assistance provided the small business client. Prerequisite, Written approval of SBI Director. Demand.

4163. 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. Demand.

4173. 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. Spring, Demand.

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 nonfamily conflict, and needed survival skills for sons or daughters. Summer.

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. Fall, Spring, Summer.

429V. Special Problems in Management  Individual problems in management arranged in consultation with the instructor. Must be approved by department chair. Fall, Spring, Summer.

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. Demand.

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. Fall, Spring, Summer.

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 nonbusiness majors only. Special course fees may apply. Fall, Spring, Demand.

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 company objectives. Special course fees may apply. Prerequisite, ECON 2323 or 2333. Fall, Spring, Summer.

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. Emphasis is placed on the use of secondary data. Report writing and presentation are stressed. Special course fees may apply. Prerequisites, ECON 2113 and BCOM 2563. Fall, Spring, Demand.

3033. Advertising and Promotion  Advertising and other communication methods designed to present a company and its products or services to prospective customers. Special course fees may apply. Prerequisite, MKTG 3013. Fall, Spring, Demand.

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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Prerequisite, ECON 2323. Fall, Demand.

3073. Market Planning  Quantitative basis of pricing and product management used to facilitate understanding of decision making processes when developing and controlling a coordinated marketing strategy. Special course fees may apply. Prerequisite, MKTG 3013. Fall, Spring, Demand.
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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

4013. **Service and Non-Profit Marketing**  
Application of marketing to service and nonprofit industries. Emphasizes the peculiar nature of services and nonprofit marketing when developing marketing strategies. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Demand.

4053. **Electronic Marketing**  
The course is designed to introduce and expand students knowledge and usage of electronic resources for application in the marketing process. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Prerequisite, MKTG 3013. Fall, Spring, Demand.

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. Special course fees may apply. Prerequisites, MKTG 3013 and MKTG 3023. Fall, Spring, Demand.

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. Special course fees may apply. Prerequisite, MKTG 3063. Spring, Demand.

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. Special course fees may apply. Prerequisite, MKTG 3013. Fall, Demand.

419V. **Special Problems in Marketing**  
Individual problems in marketing arranged in consultation with the instructor. Must be approved by the department chair. Special course fees may apply. Fall, Spring, Summer.

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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Prerequisites, MKTG 3063 and consent of instructor. Fall, Spring.

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. Special course fees may apply. Prerequisites, MKTG 3013 and consent of instructor. Fall, Spring, Summer.

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 and techniques to best meet the needs of the community served. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

433V. **Brand Management**  
Through the use of computer simulation, students will analyze information, apply marketing principles, and make strategic brand decisions. Collaborating within a competitive environment, students must synthesize marketing information to make effective decisions for the simulated brand. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

434V. **Sports 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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

438V. **Logistics Outsourcing**  
This course will focus on contract logistics, or outsourcing, that require new, long term contractual relationships effecting buyers, sellers, and third parties. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

439V. **Social Marketing**  
This 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. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Summer, 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 ECON 4103. Fall, Spring, Summer.
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.  

Demand.

4143. **Export Policies and Procedures**  
Provides the rationale for exports and provides training on the skills for managing an export business. Coverage includes export promotion and incentives, lines and letters of credit, foreign exchange issues, international trade logistics, export documentation, and security and regulatory issues. Prerequisites, Completion of 60 hours.  

Spring.

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.  

Fall, Spring, Summer.

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.  

Demand.

**Business Communications (BCOM)**

2563. **Business Communication**  
Theories and principles of written, interpersonal, and oral communication. Prerequisite, ENG 1013.  

Fall, Spring, Summer.

3573. **Managerial Communication**  
Advanced business communication course to develop business reports and presentations and to investigate technological business communication systems. Prerequisite, BCOM 2563.  

Fall, Spring, Demand.

**TEACHING INTERNSHIPS FOR BSE**

**Teaching Internship (TIBU)**

TIBU 4825. **BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL**  
Ten semester hours. Full semester teaching internship.  

Fall, Spring.

TIBU 4826. **BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL**  
Twelve semester hours. Full semester teaching internship.  

Fall, Spring.
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: Communication Studies; Journalism; and Radio-Television. 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 advisor. Students pursuing a bachelor of arts in Communication Studies 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-televisi...
Professional Education Requirements:

- PSY 3703, Educational Psychology ................................................................. 3
- SCED 2514, Introduction to Secondary Teaching ........................................ 4
- SCED 3515, Performance Based Inst. Design .................................................. 5
- SCED 4713, Educational Measurement with Computer Applications ............... 3
- SE 3643, The Exceptional Student in the Regular Classroom ......................... 3
- STSP 4620, Student Teaching in the Secondary School .................................. 12

* See Bachelor of Science in Education degree-College of Education

** Prerequisite: Admission into the Teacher Education Program

Graduation Requirement

All teacher education candidates (BSE) must take the appropriate Praxis II Senior Exam for Drama/Speech and report their results to the Office of the Chair, Communication Studies, 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:

- HLTH 2513, Principles of Personal Health ............................................................. 3
- PE Activity Elective ................................................................................................ 1

Total 127

Minor in Communication Studies

- SCOM 1203, Oral Communication .................................................................... 3
- SCOM 2223, Oral Interpretation ......................................................................... 3
- SCOM 2243, Principles of Argumentation ............................................................ 3
- SCOM 3243, Principles of Persuasion ................................................................. 3
- SCOM 4203, Small Group Communication; OR SCOM 4243, Interpersonal Communication .......................................................... 3
- Upper Division Communication Studies Electives ............................................. 6

Total 21

Department of Journalism

Associate Professor Joel Gambill, Chair; Professors Fowler, Shipman; Associate Professors Fears, Zibluk; Assistant Professor Hill; Instructors 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 is designed to provide realistic instruction in modern journalistic techniques, promote a rich background in the liberal arts and sciences, and present current communication 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:

- JOUR 1003, Mass Communications in Modern Society ..................................... 3
- JOUR 2003, News Writing .................................................................................. 3
- JOUR 4013, News Reporting ............................................................................. 3
- JOUR 4073, Communications Law and Ethics ................................................... 3

Emphasis Area: (select one of the four options)

News-Editorial Journalism

- 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

Public Relations

- JOUR 3063, Communications Research ............................................................. 3
- JOUR 3673, Desktop Publishing ........................................................................ 3
- PR 3003, Principles of Public Relations ............................................................. 3
- PR 3013, Public Relations Tools and Techniques ............................................... 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

Advertising

- ECON 2313, Principles of Macroeconomics* .................................................. 3
- ECON 2323, Principles of Microeconomics* ..................................................... 3
- JOUR 2003, Principles of Advertising ............................................................... 3
- JOUR 3033, Advertising Copywriting ............................................................... 3
- JOUR 3063, Communications Research ............................................................ 3
- JOUR 4673, Desktop Publishing ....................................................................... 3
- JOUR 4003, Media Planning ............................................................................. 3
- JOUR 4033, Advertising Case Studies and Campaigns ..................................... 3
- MKTG 3013, Marketing ..................................................................................... 3
- RTV 3333, RTV Advertising and Sales .............................................................. 3
- Additional hours in the College of Communications (must be approved by adviser) 6-12

*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

- GCOM 1813, Introduction to Digital Publishing ............................................... 3
- 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 .......................................................... 3-9
- Minor in the liberal arts and sciences; must be approved by adviser ................... 18-24

Electives:

(Number of hours determined by emphasis area and minor selected)

Total 125
Major in Graphic Communications
Bachelor of Science

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

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCOM 1613, Graphic Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 1813, Introduction to Digital Publishing</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 2673, Digital Prepress Workflow and File Creation</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 3003, Internship</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 3603, Graphic Production Systems</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 4613, Post Press and Distribution Management</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 4623, Graphic Communications Estimating and Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 4643, Graphic Communications Management Seminar</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 4883, Graphic Publication Production</td>
<td>3</td>
</tr>
<tr>
<td>GCOM 4783, Electronic Innovations in Graphic Communications</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3034, Photography</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3673, Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 4373, Internet Communications</td>
<td>3</td>
</tr>
<tr>
<td>RTV 4363, Multimedia Production Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives:**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(9 hours must be from the Liberal Arts &amp; Sciences area)</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>124</td>
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</table>

**Minor in Journalism**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 2003, News Writing</td>
<td>3</td>
</tr>
<tr>
<td>Lower level journalism elective</td>
<td>3</td>
</tr>
<tr>
<td>12 hours upper-level journalism or public relations courses</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

**Minor in Graphic Communications**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCOM 1613, Graphic Communications Systems</td>
<td>3</td>
</tr>
<tr>
<td>15 hours (12 of which must be upper level GCOM courses)</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

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.

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Department of Radio-Television

Assistant Professor Richard Carvell; Chair; Professors Amienyi, Jackson-Pitts; Assistant Professor Zeng; Instructors Brown, Doyle, Pillow, Roberts.

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 .................................................. 46-49

**College Core Requirements:**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 1003, Mass Communications in Modern Society</td>
<td>3</td>
</tr>
<tr>
<td>RTV 2003, News Writing</td>
<td>3</td>
</tr>
<tr>
<td>RTV 4073, Communications Law &amp; Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>9</td>
</tr>
</tbody>
</table>

**Department Core Requirements:**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 2024, Audio Production</td>
<td>4</td>
</tr>
<tr>
<td>RTV 3024, Video Production</td>
<td>4</td>
</tr>
<tr>
<td>RTV 3363, Communications Research</td>
<td>3</td>
</tr>
<tr>
<td>RTV 4313, Electronic Media Management</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

**Emphasis Area: (select one of the three emphases)**

**Broadcast Journalism**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 3003, Reporting for the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>RTV 3103, Electronic News Gathering</td>
<td>3</td>
</tr>
<tr>
<td>RTV 4323, News Production and Performance</td>
<td>3</td>
</tr>
<tr>
<td>Two of the following</td>
<td>6</td>
</tr>
<tr>
<td>JOUR 4083, Sports, Business &amp; Opinion Writing</td>
<td>3</td>
</tr>
<tr>
<td>RTV 3343, Advanced Radio Practicum</td>
<td>3</td>
</tr>
<tr>
<td>RTV/JOUR 4053, Public Affairs Reporting</td>
<td>3</td>
</tr>
<tr>
<td>RTV 4443, Internship</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Departments of Radio-Television and Journalism</td>
<td>0-3</td>
</tr>
<tr>
<td>TOTAL MAJOR HOURS</td>
<td>42-45</td>
</tr>
</tbody>
</table>

Minor in the liberal arts and sciences; must be approved by adviser. 18-24

**Electronic Media Sales and Promotion**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 3023, Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>RTV 3013, Promotional Writing for the Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>RTV 3333, Radio-Television Advertising and Sales</td>
<td>3</td>
</tr>
<tr>
<td>One of the following</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3033, Advertising Copywriting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 4003, Media Planning</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 4113, Integrated Communications Strategies</td>
<td>3</td>
</tr>
<tr>
<td>PR 3003, Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>RTV 3343, Advanced Radio Practicum</td>
<td>3</td>
</tr>
<tr>
<td>RTV 4443, Internship</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Departments of Radio-Television and Journalism</td>
<td>3-6</td>
</tr>
<tr>
<td>TOTAL MAJOR HOURS</td>
<td>42-45</td>
</tr>
</tbody>
</table>

Minor outside the College of Communications; must be approved by adviser. 18-24
## DEPARTMENT OF COMMUNICATION STUDIES

### Communication Studies (SCOM)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1203</td>
<td>Oral Communication</td>
<td>Develop a proficiency in oral communication. Prerequisite for all other speech communication courses, except SCOM 3203, Business and Professional Speech Communication.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1211</td>
<td>Forensic Activities I</td>
<td>Practical debate and competitive speaking.</td>
<td></td>
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<tr>
<td>1221</td>
<td>Forensic Activities II</td>
<td>Practical debate and competitive speaking.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2203</td>
<td>Introduction to Human Communication</td>
<td>An introduction to and an overview of speech communication, including concepts and applications. Prerequisite, SCOM 1203 Oral Communication.</td>
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<tr>
<td>2211</td>
<td>Forensic Activities III</td>
<td>Practical debate and competitive speaking.</td>
<td></td>
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</tr>
<tr>
<td>2221</td>
<td>Forensic Activities IV</td>
<td>Practical debate and competitive speaking.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2233</td>
<td>Oral Interpretation</td>
<td>Theory and practice of reading aloud, with emphasis on the emotional and intellectual content of literature.</td>
<td></td>
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</tr>
<tr>
<td>2243</td>
<td>Principles of Argumentation</td>
<td>Principles of logical reasoning used in advocacy, analysis, use of evidence, inductive and deductive reasoning.</td>
<td></td>
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<tr>
<td>3203</td>
<td>Business and Professional Speech Communication</td>
<td>Speech communication needs of business and professional people.</td>
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<tr>
<td>3211</td>
<td>Forensic Activities V</td>
<td>Practical debate and competitive speaking.</td>
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<tr>
<td>3221</td>
<td>Forensic Activities VI</td>
<td>Practical debate and competitive speaking.</td>
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<tr>
<td>3233</td>
<td>Advanced Oral Interpretation</td>
<td>Continuation of SCOM 2233.</td>
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<tr>
<td>3243</td>
<td>Principles of Persuasion</td>
<td>Theory and practice of persuasion as an instrument in motivating human conduct.</td>
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<tr>
<td>3253</td>
<td>Principles of Listening</td>
<td>Principles of listening in the communication process, emphasis on listening improvement.</td>
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<tr>
<td>3363</td>
<td>Human Communication Research Methods</td>
<td>Study of both qualitative and quantitative methods used in communication research.</td>
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<tr>
<td>3373</td>
<td>Gender Communication</td>
<td>Study of the interrelationship between communication and gender in various contexts.</td>
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<tr>
<td>4203</td>
<td>Small Group Communication</td>
<td>Group and conference techniques for classroom, business, and professional situations.</td>
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<tr>
<td>4211</td>
<td>Forensic Activities VII</td>
<td>Practical debate and competitive speaking.</td>
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<tr>
<td>4221</td>
<td>Forensic Activities VIII</td>
<td>Practical debate and competitive speaking.</td>
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</table>

### Electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 3673, Desktop Publishing and Publication Design</td>
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<tr>
<td>JOUR 3043, Photography</td>
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<tr>
<td>RTV 3013, Promotional Writing for the Electronic Media</td>
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<tr>
<td>RTV 4363, Multimedia Production Techniques</td>
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<tr>
<td>RTV 4373, Internet Communications</td>
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<tr>
<td>Two of the following</td>
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<tr>
<td>JOUR 3043, Photography</td>
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<tr>
<td>RTV 3013, Promotional Writing for the Electronic Media</td>
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<tr>
<td>RTV 4363, Multimedia Production Techniques</td>
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<tr>
<td>RTV 4373, Internet Communications</td>
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<tr>
<td>Two of the following</td>
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<tr>
<td>JOUR 3043, Photography</td>
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<tr>
<td>RTV 3013, Promotional Writing for the Electronic Media</td>
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<tr>
<td>RTV 4363, Multimedia Production Techniques</td>
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<tr>
<td>RTV 4373, Internet Communications</td>
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<tr>
<td>Electives in Departments of Radio-Television and Journalism</td>
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<tr>
<td>TOTAL MAJOR HOURS 42-45</td>
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</tbody>
</table>

### Minor outside the College of Communications (must be approved by adviser)

- 18-24 hours

### Minor in Radio-Television

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 2003, News Writing</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>RTV 2023, Audio Production</td>
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<tr>
<td>RTV 3024, Video Production of RTV 3034, Video Post Production</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Electives in Departments of Radio-Television and Journalism</td>
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</tr>
<tr>
<td>TOTAL MAJOR HOURS 20</td>
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</tbody>
</table>

### Notes:

1. 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 60 of the 80 hours must be in courses approved as "liberal arts and sciences." A list of approved courses is available at department offices.

2. 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.

3. No more than three hours of internship credit may be counted within the 125 hours required for graduation.
Prerequisite, GCOM 1613. Consent of Department Chair and printing faculty required. Fall, Spring, Summer.

Students will be required to work and study in an approved position.

theory and practice in digital publishing

2673. Digital Prepress Workflow and File Creation

An exploration of the digital, offset, gravure, flexography and screen printing processes of graphic reproduction and publish carriers, image transfer systems, substrates, inks and toners, and quality control. Each process will be studied through classroom experiences, industrial visitations, and laboratory experiences. Prerequisite, GCOM 1613. Fall.

Methods of gathering material for

Weekly review of news events

2013. News Reporting

Ten semester hours. Full semester teaching internship. Fall, Spring.

Three semester hours. 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. Fall.

3603. Graphic Production Systems

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. Fall.

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. Spring.

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. Fall.

4683. Graphic Publication Production

Graphic Design Systems An exploration of the industrial materials and processes utilized for graphic preparation and reproduction including lithography, gravure, flexography, screen printing, and nonimpact printing processes. Classroom, industrial visitation and laboratory format. Fall, Spring.

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. Fall, Spring.

488V. Special Problems in Graphic Communications

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. Fall, Spring, Summer.

DEPARTMENT OF JOURNALISM

Graphic Communications (GCOM) (Special course fees may apply.)

1613. Graphic Communication Systems

Survey of the varied fields of mass communications, with emphasis on their functions, operations, and problems in a democracy. Cross listed as RTV 1003. Fall, Spring.

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. Cross listed as RTV 4003. Fall, Spring, Summer.

3003. Internship

Students will be required to work and study in an approved position. Prerequisite, GCOM 1613. Consent of Department Chair and printing faculty required. Fall, Spring, Summer.

3001. Contemporary Events and the Mass Media

Weekly review of news events and the mass medias coverage of them. Fall, Spring.

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 2013. Fall.
3023. **Principles of Advertising**  Advertising history, theory and practice, including traditional and nontraditional media. Fall, Spring.

3033. **Advertising Copywriting**  Principles and practices of writing mass media advertising. Prerequisites, JOUR 2003, JOUR 2013, and JOUR 3023. Fall.

3040. **Photography Laboratory**  Laboratory for Photography. Must be taken concurrently with JOUR 3043. Fall.

3043. **Photography**  Elements of composition, camera, darkroom techniques and digital photography. Requires three hours of laboratory work per week. Lab fee, $10. Special course fee, $10.00. Fall, Spring.

3063. **News Editing**  Copyediting, rewriting news stories, writing headlines, with use of personal computer. Prerequisite, JOUR 2013. Fall.

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. Spring.

3083. **History of the Mass Media**  History of the mass media newspapers, magazines, radio, television and new technology from colonial days to the present. Spring.

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. Spring.

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. Cross listed as RTV 3363. Fall, Spring.

3673. **Desktop Publishing and Publication Design**  Tools of electronic publishing and publication design are reviewed using desktop publishing software packages and computers. Fall, Spring, Summer.

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. Spring.

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. Fall.

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 3363. Spring.

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. Fall, 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. Spring.

4063. **Internship**  Supervised work for a newspaper or other suitable publication. Prerequisite, consent of the department chair. Summer.

4073. **Communications Law and Ethics**  Legal and ethical limitations and privileges affecting the mass media. Cross listed as RTV 4073. Fall, Spring, Summer.

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. Spring, 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. Spring.

4323. **Race, Gender and Media**  Survey of the interface between Americans of color, women and the mass media in the United States. Fall.

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. Fall, Spring, Summer.

438V. **Special Problems in Journalism**  Prerequisite, approval of department chair and faculty. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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 noncorporate organizations. Prerequisite, JOUR 2003, JOUR 2013, and PR 3003. Fall.

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. Fall, Spring.

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. Fall.

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. Spring.

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. Fall.
DEPARTMENT OF RADIO-TELEVISION

Radio-Television (RTV)

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. Special course fees may apply. Cross listed as JOUR 1003. Fall, Spring, Summer.

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. Special course fees may apply. Prerequisite, C or better in ENG 1003. Cross listed as JOUR 2003. Fall, Spring, Summer.

2024. Audio Production with Lab 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. Special course fees may apply. Prerequisite, C or better in ENG 1003. Cross listed as JOUR 2003. Fall, Spring, Summer.

3003. Reporting for the Electronic Media Gathering, writing, and reporting news and features for the electronic media, including radio and television, cable, and the Internet. Special course fees may apply. Prerequisite, C or better in RTV 2003. Word processing skills required. Fall, Spring.

3013. Promotional Writing for Electronic and Digital Media Methods and techniques of writing nonnews 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. Special course fees may apply. Word processing skills required. Fall, Spring.

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. Special course fees may apply. Lab TBA. Fall, Spring, Summer.

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 and video, interactive multimedia, and the World Wide Web. Lab TBA. $25 course fee. Fall, Spring, Summer.

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. Special course fees may apply. Prerequisite, C or better in RTV 3003, RTV 3024, and RTV 3034, or consent of instructor. Fall, Spring.

3303. The Development of the Motion Picture A study of the development of motion picture theory, technology, and technique. Special course fees may apply. Demand.

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. Special course fees may apply. Fall, Summer.

3343. Advanced Radio Practicum Special practices in radio station operation, with special assignments relative to operation of KASU. Special course fees may apply. Prerequisite, RTV 2024. Fall, Spring, Summer.

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. Special course fees may apply. Cross listed as JOUR 3363. Spring.

3673. Seminar in Digital Media and Design A study of the development and impact of digital media. Special course fees may apply. Also listed as ART 3673. Spring.

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. Special course fees may apply. Prerequisite, RTV 3003. Spring.

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. Special course fees may apply. Spring.

4073. Communications Law and Ethics Legal and ethical limitations and privileges affecting the mass media. Special course fees may apply. Cross listed as JOUR 4073. Fall, Spring, Summer.

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. Special course fees apply. Prerequisite, RTV 3363 or consent of instructor. Fall.

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 multisystem cable organizations and to applicable regulatory procedures and requirements of the Federal Communications Commission and other regulatory groups. Special course fees apply. Fall.


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 nonverbal communication relative to on-camera delivery. Prerequisites, RTV 3103 or consent of instructor. $25 special course fee. Fall, Spring.

4333. Special Topics Seminar A seminar that addresses current topics in the area of communication. Special course fees apply. Fall.

4353. Corporate Media Production Study of the field and function of media production for business and nonprofit organizations. The course addresses client contact, budgeting, analysis of production programs, design and writing of scripts for promotion, training and news in corporate and industrial settings. $25 special course fees. Prerequisites, RTV 3013, RTV 3024 and RTV 3034. Fall.

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 and acquisition, and multimedia delivery systems. Special course fees apply. Fall, Spring.

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. Special course fees apply. Prerequisite, Basic computer competency. Fall.
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. Special course fees apply. Fall, Spring.

4443. **Internship**  Supervised work for a radio or television, cable system or allied industry. Offered only during the summer. Special course fees apply. Prerequisite, Consent of Chairman of Department of Radio Television. Summer.

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. Special course fees apply. Fall.

488V. **Special Problems in Electronic Media**  Prerequisite, approval of Department Chairman and faculty. Special course fees apply. Fall, Spring, Summer.
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
  - (a) Biology
  - (b) Chemistry
  - (c) Physics
- Mathematics
- Middle-Level Education (4-8)
- Music (BME)
- Physical Education
- Social Science
- Spanish
- Speech Communication and Theatre

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.

### 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>

### 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. (Prerequisite 15 semester hours)

**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 of Psychology and Counseling

Loretta Neil McGregor, Chair; Professors Hall, Howerton, Johnson, Jones, Saamio; Associate Professors Breeding, Christenberry, Biondolillo, Ochs, Peck, Yanowitz; Assistant Professors Claxton, Easton, Khramtsova, Pearce, Pierce

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

<table>
<thead>
<tr>
<th>General Education Requirements:</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>
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</table>

<table>
<thead>
<tr>
<th>Major Requirements:</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>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.</td>
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</tr>
<tr>
<td>PSY 2023, Contemporary Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3103 and PSY 3101, Quantitative Methods for Behavioral Sciences and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PSY 3121 and PSY 3121, Experimental Psychology and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PSY 3823, History of Psychology</td>
<td>3</td>
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<tr>
<td>One of the following courses:</td>
<td>3</td>
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<tr>
<td>PSY 3153, Human Research</td>
<td></td>
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<tr>
<td>PSY 4173, Introduction to Psychological Testing</td>
<td></td>
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<tr>
<td>One of the following courses:</td>
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<tr>
<td>PSY 3403, Child Psychology</td>
<td></td>
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<tr>
<td>PSY 3413, Adolescent Psychology</td>
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<tr>
<td>PSY 3453, Developmental Psychology</td>
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<tr>
<td>Two of the following courses:</td>
<td>6</td>
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<tr>
<td>PSY 3303, Motivation</td>
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<tr>
<td>PSY 4323, Physiological Psychology</td>
<td></td>
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<tr>
<td>PSY 4343, Learning Processes</td>
<td></td>
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<tr>
<td>PSY 4363, Cognitive Psychology</td>
<td></td>
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<tr>
<td>Two of the following courses:</td>
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<tr>
<td>PSY 3125, Introduction to Social Psychology</td>
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<tr>
<td>PSY 4533, Abnormal Psychology</td>
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<tr>
<td>PSY 4543, Personality Development</td>
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<tr>
<td>Upper Division Psychology Electives</td>
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<tr>
<td>Area of Concentration or Minor (approved by adviser)</td>
<td>18-24</td>
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<tr>
<td>Total</td>
<td>59-65</td>
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<table>
<thead>
<tr>
<th>Electives:</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Electives</td>
<td>10-19</td>
</tr>
<tr>
<td>Total</td>
<td>124</td>
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**Minor in Psychology**

<table>
<thead>
<tr>
<th>Minor in Psychology</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective in Psychology (in addition to PSY 2013)</td>
<td></td>
</tr>
<tr>
<td>Upper level electives in Psychology</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

Department of Educational Leadership, Curriculum, and Special Education

Professor Mitchell Holifield, Chair; Professors Beineke, Cline, Cox, Foldsby; Associate Professors Bradley, Holman, Lamb-Milligan, McBride, Nichols, Saleh; Assistant Professors Bonneau, Henley, Maness,

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 pre or co-requisite for endorsement in special education. Students who wish to teach special education preschool through grade 4 (P-4) must complete requirements for either a regular education grades 4-8 or grades 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 Fiala, Grymes, Owens, Smith, Williams; Assistant Professors Davidson, Johnson, Malinsky, McJunkin, McLin, Meeks, Ross, Stepka; Instructors Bacot, Bowser-Brown, Donaghy, Harrington

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 reading. The department also offers a graduate program in early childhood services (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.

**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.

Endorsement in Teaching Grades 5 and 6
The Arkansas Department of Education allows for P-4 Teachers to attain an endorsement in teaching grades 5 and 6. Those individuals who wish to attain this endorsement must hold a P-4 license before beginning the endorsement process. Credentials to teach grades 5 and 6 are added to the P-4 license. In order to gain the endorsement, students must complete the following three courses with an overall cumulative grade point of 3.000 (B).

MLED 3003, Nature and Needs of the Middle Level Learner
MLED 3033, Effective Teaching Strategies
MLED 3073, Key Issues of Teaching and Learning in the Middle Class

Major in Early Care and Education
Bachelor of Science
Minor in Family Studies
Department of Teacher Education

<table>
<thead>
<tr>
<th>General Education Requirements:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>ENG 1003, 1013 Composition &amp; I II ................................................................. 6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH 1023, College Algebra ................................................................................... 3</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>SCOM 2123, Oral Communications .......................................................................... 3</td>
</tr>
<tr>
<td>Understanding Global Issues</td>
<td>ANTH 2223, Introduction to Cultural Anthropology OR GEOG 2613, Introduction to Geography 3</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<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>
</tr>
<tr>
<td>Social Sciences</td>
<td>POSC 2103, Introduction to US Government ............................................................ 3</td>
</tr>
<tr>
<td>Psychology</td>
<td>PSY 2013, Introduction to Psychology ................................................................... 3</td>
</tr>
<tr>
<td>Sociology</td>
<td>SOC 2213, Introduction to Sociology ................................................................... 3</td>
</tr>
<tr>
<td>Science</td>
<td>BIOL 1003, Biological Science AND BIOL 1001, Lab ................................................. 4</td>
</tr>
<tr>
<td>Physical Science</td>
<td>PHSC 1203, Physical Science AND PHSC 1201, Lab ................................................ 4</td>
</tr>
<tr>
<td>Health and Wellness</td>
<td>PE 1002, Concepts of Fitness ................................................................................ 2</td>
</tr>
<tr>
<td>Emancipators</td>
<td>HIST 2763, US History to 1876 OR HIST 2773, US History Since 1876 OR as required 3</td>
</tr>
</tbody>
</table>

Total General Education Hours: 46

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<tbody>
<tr>
<td>CD 3303, Normal Language Development</td>
<td>......................................................... 3</td>
</tr>
<tr>
<td>CNT 1000, Microcomputer Applications</td>
<td>................................................................ 3</td>
</tr>
<tr>
<td>CS 1043, Introduction to Computers</td>
<td>................................................................ 3</td>
</tr>
<tr>
<td>ENG 3013, Practical Writing</td>
<td>................................................................ 3</td>
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<tr>
<td>HLTH 2223, First Aid and Safety</td>
<td>................................................................ 3</td>
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<tr>
<td>SCOM 4223, Storytelling for Children</td>
<td>................................................................ 3</td>
</tr>
<tr>
<td>SOC 3353, Minority Groups</td>
<td>................................................................ 3</td>
</tr>
<tr>
<td>SPAN 1013 AND SPAN 1023, Elementary Spanish I &amp; II</td>
<td>......................................................... 6</td>
</tr>
</tbody>
</table>

Total Interdisciplinary Support Hours: 24

Family Studies Minor

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>ECH 4063, Today’s Families: Interdisciplinary Approaches</td>
<td>......................................................... 3</td>
</tr>
<tr>
<td>NRS 2303, Basic Human Nutrition</td>
<td>................................................................ 3</td>
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<tr>
<td>PSY 3403, Child Psychology</td>
<td>................................................................ 3</td>
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<tr>
<td>SOC 3223, Sociology of Marriage and Family</td>
<td>......................................................... 3</td>
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<tr>
<td>SW 3313, Introduction to Child Welfare</td>
<td>......................................................... 3</td>
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<tr>
<td>SW 3343, Child Abuse and Neglect</td>
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</table>

Total Minor Hours: 18

Early Care and Education Major

<table>
<thead>
<tr>
<th>Early Care and Education Major</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ECH 2013, Survey of Early Childhood Education</td>
<td>......................................................... 3</td>
</tr>
<tr>
<td>ECH 2023, Child Development</td>
<td>......................................................... 3</td>
</tr>
<tr>
<td>ECH 3003, Literacy for Children and Families</td>
<td>......................................................... 3</td>
</tr>
<tr>
<td>ECH 3613, Strategies for Supporting Learning Through Play</td>
<td>......................................................... 3</td>
</tr>
<tr>
<td>ECH 3603, Physical and Psychological Environments for Young Children</td>
<td>......................................................... 3</td>
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<tr>
<td>ECH 4613, Curriculum and Assessment for Early Care and Education</td>
<td>......................................................... 3</td>
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<tr>
<td>ECH 4623, Child Care Program Management and Mentoring</td>
<td>......................................................... 3</td>
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<tr>
<td>ECH 4636, Practicum in Early Care and Literacy</td>
<td>......................................................... 3</td>
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<tr>
<td>ELED 4053, Teacher-Made materials for Use in Learning and Interest Centers</td>
<td>......................................................... 3</td>
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<tr>
<td>SIE/ELSE 3023, Characteristics of Individuals with Disabilities</td>
<td>......................................................... 3</td>
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<tr>
<td>SIE/ELSE 4693, Methods of Working with Families</td>
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</table>

Total Major Hours: 18

TOTAL PROGRAM HOURS: 124

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.

Year 1 - Fall Semester
| Year 1 - Spring Semester |
|--------------------------|-------------------------|
| ENG 1003 | ENG 1013 |
| HIST 1013 or 1023 | HIST 2763 or 2773 |
| MATH 1023 | MATH 2503 |
| PE 1002 or NRS 2203 | THEA 2503 |
| SCOM 1203 | UC 1013 |

Year 2 - Fall Semester
| Year 2 - Spring Semester |
|--------------------------|-------------------------|
| BIOL 1001 and 1003 | ECH 2013 |
| ECH 2022 | ECH 2023 |
| ENG 2003 or 2013 or PHIL 1103 | ECH 3003 or 3004 |
| MATH 2113 | MATH 2123 |
| POSC 2103 | |

Year 2 - Summer Semester
| ARED 3702 | GSP 2203 |

Year 3 - Fall Semester
| Year 3 - Spring Semester |
|--------------------------|-------------------------|
| ECH 3013 | ECH 3003 |
| ECH 3043 | ECH 3003 |
| ECH 3063 | ECH 3093 |
| ECH 3073 | MUED 3612 |
| ECH 3083 | PE 3802 |
| RDNG 3203 | |

Year 4 - Fall Semester
| Year 4 - Spring Semester |
|--------------------------|-------------------------|
| ECH 4012 | ECH 4086 |
| ECH 4013 | ECH 4086 |
| ECH 4023 | ECH 4063 |
| ECH 4043 | RDNG 4403 |
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 .................................................. 46-47

Specific General Education Requirements:
All Early Childhood-Elementary majors MUST take the following:
ART 2503, Fine Arts Visual OR MUS 2503, Fine Arts Musical OR THEA 2203, Fine Arts Theatre BOL 1001, Biological Science Laboratory AND BOL 1003, Biological Science ENG 1003, Composition I ENG 1203, Composition II ENG 2505, Intro to W Lit I, ENG 2513, Intro to W Lit II, PHIL 1103, Intro to Phil (select two) HIST 1013 OR 1023, World Civilization To or Since 1660 HIST 2763 OR 2773, The United States To or Since 1876 MATH 1023, College Algebra PE 1002, Concepts of Fitness PHIL 1103, Intro to Philosophy PHSC 1203, Physical Science AND PHSC 1201, Physical Science Laboratory NRS 2203, Basic Human Nutrition OR MATH 1023, College Algebra PE 1002, Concepts of Fitness OR NRS 2203, Basic Human Nutrition OR MATH 1023, College Algebra OR HIST 1013 OR 1023, World Civilization To or Since 1660 OR HIST 2763 OR 2773, The United States To or Since 1876

HIST 3038, History of Arkansas .................................................. 3

Professional Education Requirements:
ECH 2002, Introduction to Educational Technology .......................... 2
ECH 2013, Survey of Early Childhood Education .......................... 2
ECH 2022, Introduction to Elementary School Teaching: Field Experience I .................................................. 2
ECH 2023, Child Development .................................................. 3
ECH 3013, Children’s Literature in the Preschool and Primary Grades .................................................. 3
ECH 3033, Effective Teaching Strategies .................................................. 2
ECH 3043, Program Development and Management for Early Care and Education Centers .................................................. 3
ECH 3053, Curriculum Development in Early Childhood Education .................................................. 2
ECH 3063, Individualizing Programs for Children and Families .................................................. 2
ECH 3073, Children, Families & Community Relationships: Field Experiences II .................................................. 3
ECH 3083, Integration of Technology into the Curriculum .................................................. 3
ECH 3093, Assessing and Evaluating Student Behavior .................................................. 3
ECH 4012, Classroom Management .................................................. 2
ECH 4013, Field Experiences IV: Pre-Internship .................................................. 2
ECH 4023, Methods and Materials of Language Arts and Social Studies .................................................. 3
ECH 4043, Methods and Materials of Math and Science .................................................. 3
ECH 4053, Social Foundations of Education (enhancement course) .................................................. 2
ECH 4066, Teaching Internship in Early Childhood Education - Kindergarten .................................................. 2
ECH 4068, Teaching Internship in the Elementary School - Primary Grades 1-3 .................................................. 2
ELS E 3643, Exceptional Student in the Regular Classroom .................................................. 3
RDNG 2203, Foundations of Reading .................................................. 3
RDNG 4403, Early Literacy: Theory and Practice .................................................. 3

Prerequisite: Admission into the Teacher Education Program

Total 133-134

Major in Early Childhood Education
Bachelor of Science in Education
(Preschool - Grade 4 License)

Early Childhood Education
Bachelor of Science in Education
(Preschool - Grade 4 License)

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.

Freshmen Year - Semester 1
ENG 1003
HIST 1013 OR HIST 1023
MATH 1003
PE 1002 OR NRS 2203
SCOM 1203
UC 1013

Freshmen Year - Semester 2
ART 2503 OR MUS 2503 OR THEA 2203
ENG 1013
GSP 1201 AND GSP 1203
HIST 2763 OR HIST 2773
PSY 2013

Sophomore Year - Semester 1
BOL 1001 AND BOL 1003
ECH 4012#
ECH 4023#
ENG 2505 OR ENG 2513 OR PHIL 1103
MATH 2113
POSC 2103

Sophomore Year - Semester 2
ECH 4012#
ECH 4023#
ENG 2505 OR ENG 2513 OR PHIL 1103
MATH 3083
MATH 2123

Sophomore Year - Summer
GSP 3303
ARED 3702

Junior Year - Semester 1
ECH 3033* ECH 3043* ECH 3063* ECH 3073* ECH 3083#
GSP 3303
PE 3802
RDNG 4403#

Senior Year - Semester 2
ECH 4012#
ECH 4023#
RDNG 4403#

Prerequisite: Admission into the Teacher Education Program
#Corequisite course

Professional Education Requirements:

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 .................................................. 46-47

Specific General Education Requirements:
All Early Childhood-Elementary majors MUST take the following:
ART 2503, Fine Arts Visual OR MUS 2503, Fine Arts Musical OR THEA 2203, Fine Arts Theatre BOL 1001, Biological Science Laboratory AND BOL 1003, Biological Science ENG 1003, Composition I ENG 1203, Composition II ENG 2505, Intro to W Lit I, ENG 2513, Intro to W Lit II, PHIL 1103, Intro to Phil (select two) HIST 1013 OR 1023, World Civilization To or Since 1660 HIST 2763 OR 2773, The United States To or Since 1876 MATH 1023, College Algebra PE 1002, Concepts of Fitness OR NRS 2203, Basic Human Nutrition PHSC 1201, Physical Science Laboratory AND PHSC 1203, Physical Science PSOC 2103, Introduction to United States Government
| Specialty Area Requirements: |  |
|-------------------------------|  |
| GSP 3203, Science for Teachers | 3 |
| MATH 2113, Mathematics for Elementary School Teachers | 3 |
| MATH 2123, Mathematics for Elementary School Teachers  | 3 |
| **Sem. Hrs.** | 9 |

| Licensure Requirement: |  |
|------------------------|  |
| HIST 3038, History of Arkansas | 3 |
| **Sem. Hrs.** | 3 |

| Professional Education Requirements: |  |
|--------------------------------------|  |
| ECH 2002, Introduction to Educational Technology | 2 |
| ECH 2002, Introduction to Elementary School Teaching: Field Experience | 2 |
| * ECH 3003, Effective Teaching Strategies | 3 |
| * ECH 3003, Integration of Technology into the Curriculum | 3 |
| * ECH 4083, Social Foundations of Education | 3 |
| * ECH 4086, Teaching Internship in Early Childhood Education—Kindergarten | 6 |
| ELSE 4033, Exceptional Student in the Regular Classroom | 3 |
| ELSE 4033, Behavior Intervention and Consultation | 3 |
| ELSE 4043, Educational Assessment and Diagnosis | 3 |
| ELSE 4816, Teaching Internship in the Elementary School—Primary Grades 1-3 | 6 |
| * RDNG 3203, Foundations of Reading | 3 |
| * RDNG 4403, Early Literacy: Theory and Practice | 3 |
| **Sem. Hrs.** | 40 |

| Major Requirements: |  |
|---------------------|  |
| ECH 2012, Survey of Early Childhood Education | 3 |
| * ECH 3003, Child Development | 3 |
| * ECH 3013, Children’s Literature in the Preschool and Primary Grades | 3 |
| * ECH 3043, Program Development and Management for Early Care and Education Centers | 3 |
| * ECH 3053, Curriculum Development in Early Childhood Education | 3 |
| * ECH 3073, Children, Families, and Community Relationships: Field Experience II | 3 |
| * ECH 4012, Classroom Management | 2 |
| * ECH 4013, Pre-Internship: Experiences III | 3 |
| * ECH 4023, Methods and Materials of Language Arts and Social Studies | 3 |
| * ECH 4043, Methods and Materials of Math and Science | 3 |
| ELSE 4053, Methods of Working with Individuals with Mild Disabilities | 3 |
| ELSE 4863, Methods of Working with Families | 3 |
| ELSE 4763, Working with Children in Inclusive Settings | 3 |
| **Total** | 136-137 |

*Prerequisite: Admission into the Teacher Education Program

---

**College of Education**
Department of Teacher Education
BSE in Early Childhood Education / P-4
with emphasis in Special Education

This program will allow students to become certified as a P-4 Early Childhood Teacher and have endorsement in Special Education P-4.

**Freshman Year - Semester 1 (16 hrs)**
- ENG 1003
- HIST 1013 or HIST 1023
- MATH 1120
- PE 1002 or NRS 2203
- SCOM 1203
- UC 1013

**Freshman Year - Semester 2 (18 hrs)**
- ART 2503 or MUS 2503 or THEA 2503
- ENGL 1013
- HIST 2763 or HIST 2773
- PHSC 1201 and PHSC 1203
- PSY 2013

**Sophomore Year - Semester 1 (16 hrs)**
- BIOL 1001 and BIOL 1003
- ENGL 2003 or ENGL 2013 or PHIL 1103
- ECH 2002
- MATH 2113
- POSC 2103

**Sophomore Year - Semester 2 (18 hrs)**
- ECH 2013
- ECH 2023
- ELSE 3043
- ENG 2003 or ENG 2013 or PHIL 1103
- HIST 3083
- MATH 2123

**Sophomore Year - Summer Semester**
- GSP 3203

**Junior Year - Semester 1 (18 hrs)**
- ECH 3013
- ECH 3043
- ECH 3073
- ELSE 4033
- ECH 4816

**Junior Year - Semester 2 (18 hrs)**
- ECH 3013
- ECH 3073
- ELSE 4033
- ECH 4816

**Senior Year - Semester 1 (16 hrs)**
- ECH 4012
- ECH 4013
- ECH 4043
- ELSE 4703
- RDNG 4403

**Senior Year - Semester 2 (12 hrs)**
- ECH 4023
- ECH 4043
- ELSE 4703
- RDNG 4403

**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 advisor.

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1003</td>
<td>Introduction to United States Government</td>
<td>POSC 2103 or ENGL 2013</td>
<td>3</td>
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<tr>
<td>ENGL 1003</td>
<td>Oral Communication</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>PE 1002</td>
<td>Physical Science/Lab</td>
<td>UC 1013</td>
<td>4</td>
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<tr>
<td>HIST 1013</td>
<td>World Civilization To or Since 1600</td>
<td>UC 1013</td>
<td>3</td>
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<tr>
<td>HIST 2763</td>
<td>History and Literature of the United States To or Since 1876</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3013</td>
<td>Cognitive Science</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 3003</td>
<td>Methods of Working with Individuals with Mild Disabilities</td>
<td>UC 1013</td>
<td>3</td>
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<tr>
<td>PSY 1001</td>
<td>Psychology</td>
<td>UC 1013</td>
<td>3</td>
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<tr>
<td>SCOM 1203</td>
<td>Oral Communication</td>
<td>UC 1013</td>
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</table>

**Professional Education Requirements (Major):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ELSE 3643</td>
<td>Exceptional Child in the Regular Classroom</td>
<td>UC 1013</td>
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<tr>
<td>MLED 2002</td>
<td>Introduction to Educational Technology</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 2022</td>
<td>Introduction to Teaching</td>
<td>UC 1013</td>
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**The following courses require admission to the Teacher Education Program as a prerequisite:**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>MLED 3003</td>
<td>Nature and Needs of the Mid-Level Learner</td>
<td>UC 1013</td>
<td>3</td>
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<tr>
<td>MLED 3023</td>
<td>Assessing and Evaluating Student Behavior</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 3083</td>
<td>Integration of Technology into the Curriculum</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 3013</td>
<td>Literacy Through Literature for the Middle Grades</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 3033</td>
<td>Effective Teaching Strategies</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 3073</td>
<td>Key Issues of Teaching and Learning in the Middle Grades</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 4013</td>
<td>Methods and Materials for Teaching Language Arts</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 4023</td>
<td>Methods and Materials for Teaching Mathematics</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 4033</td>
<td>Science in the Middle Grades</td>
<td>UC 1013</td>
<td>3</td>
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</table>

**Admission to the Teaching Internship Semester is required for the following courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLED 4083</td>
<td>Social Foundations of Education</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 3200</td>
<td>Foundations of Reading</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 4343</td>
<td>Reading in the Content Areas: Middle and Secondary Schools</td>
<td>UC 1013</td>
<td>3</td>
</tr>
<tr>
<td>MLED 4106</td>
<td>Teaching Internship Grades 4-5</td>
<td>UC 1013</td>
<td>6</td>
</tr>
<tr>
<td>MLED 4116</td>
<td>Teaching Internship Grades 6-8</td>
<td>UC 1013</td>
<td>6</td>
</tr>
</tbody>
</table>
Area of Specialty Math and Science

Math: (18 hours in addition to MATH 2023 College Algebra)
- MATH 2113, Math for Teachers I ................................................................. 3
- MATH 2123, Math for Teachers II ................................................................. 3
- Math Electives: ................................................................................................ 12
  - MATH 1054, Precalculus Mathematics
  - MATH 2123, Discrete Structures
  - MATH 2194, Survey of Calculus
  - MATH 2204, Calculus I
  - MATH 2214, Calculus II
  - STAT 3233, Applied Statistics

  Total .............................................................................................................. 18

All math electives must be approved in advance by your middle-level education adviser who will assist you in obtaining a balance of various mathematics perspectives.

Science: (15 hours in addition to BIOL 1003-1001 and PHSC 1023/1201)
- GSP 3203, Science in the Elementary Classroom ............................................ 3
- BIOL 2103, Microbiology/Laboratory .............................................................. 3
- CHEM 1003, Introduction to Chemistry .......................................................... 3
- CHEM 1004, Physical Geology ........................................................................ 3
- PHYS 1103, Introduction to Space Science ...................................................... 3
- ZOOL 1043/1041, Principles of Zoology/Laboratory .......................................... 3

  Total .............................................................................................................. 12

All science electives must be approved in advance by your middle-level education adviser who will assist you in obtaining a balance of various scientific perspectives.

Licensure Requirement:  
- HIST 3038, History of Arkansas ................................................................. 3

  Total Program for mid-level math/science: 138-139

Area of Specialty English/Language Arts and Social Studies

English
- ENG 3003, Advanced Composition .................................................................. 3
- ENG 3583, Literature for Adolescents ............................................................. 3
- ENG 4063, Comparative Modern Grammars ................................................. 3
- Elective ........................................................................................................... 3

  Total .............................................................................................................. 12

Social Studies
- GEOG 3203 World Regional Geography ....................................................... 3
- HIST 1013 OR 1023, World Civilization To or Since 1660 ......................... 3
- HIST 2763 OR 2773, The United States To or Since 1876 ......................... 3
- HIST 3083, History of Arkansas .................................................................... 3
- Elective ........................................................................................................... 3

  Total .............................................................................................................. 15

All language arts and social studies electives must be approved in advance by your middle-level education adviser who will assist you in obtaining a balance of various perspectives appropriate for teaching in the middle grades.

Additional Specialty Courses required for language arts and social studies
- MATH 2113, Math for Teachers I ................................................................. 3
- GSP 3203, Science in the Elementary Classroom .......................................... 3

  Total .............................................................................................................. 6

Total Program 135-136

Department of Health, Physical Education, and Sport Sciences

Professor Jim L. Stillwell, Chair; Professor Adams, T.; Associate Professors Albright, C., Comeau, M., Dean, B., Finnicum, P.; Graves, M.; Assistant Professors Church, B., Kim, H.D., LaVetter, D.; Instructors Adams, H., Hilson, V, Mathis, M., Mooneyhan, A., Perkey, D., Sibrava, A.

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

Bachelor of Science

The Arkansas State University Athletic Training Program is designed to prepare students for the challenges of the expanding allied health profession of athletic training. Through the combination of extensive classroom and clinical experiences in athletic training, graduates of the program achieve the entry-level competencies necessary to challenge the certification examination offered by the National Athletic Trainers’ Association Board of Certification and embark on a career as a certified athletic trainer. The athletic training program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Interested students should contact the Athletic Training Program Director at (870) 972-3066 for more information.

General Education Requirements:  
Refer to index for General Education Curriculum for Baccalaureate Degrees

Specific General Education Requirements:

Students in this major must take the following:
- BIOL 2103 AND BIOL 2101, Microbiology for Nursing and Allied Health Professionals and Laboratory
- CHEM 1011, General Chemistry I/Laboratory
- MATH 1023, College Algebra
- PHYS 2024, General Physics I as Enhancement (this course is required regardless of AAGE exam score)

Required Support Courses:

ES 4693, Techniques of Strength Training and Conditioning 3
ES 3003, Basic Physiology of Activity ............................................................ 3
ES 4763, Kinesiology .................................................................................... 3
ES 3543, Human Anatomy and Anatomical Fundamentals of Motion........ 3
ES 3603, Nutrition for Health, Sport, and Exercise ...................................... 3
ES 3743, Research and Statistical Methods in Exercise Science ................. 3
HLTH2513, Personal Health ......................................................................... 3
HP 3003, Medical Terminology ..................................................................... 3
HP 3003, General Gross Anatomy .............................................................. 3
NRS 3023, Interdisciplinary Clinical/Pathophysiology .................................. 3
ZOOL 2011 AND ZOOL 2013, Human Anatomy and Physiology I and Laboratory 4
### Athletic Training Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 2203 AND AT 2201, Emergency Management in Athletic Training and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 2301, Clinical Instruction in Athletic Training I</td>
<td>1</td>
</tr>
<tr>
<td>AT 2311, Clinical Experience in Athletic Training I</td>
<td>1</td>
</tr>
<tr>
<td>AT 2401, Clinical Instruction in Athletic Training II</td>
<td>1</td>
</tr>
<tr>
<td>AT 2411, Clinical Experience in Athletic Training II</td>
<td>1</td>
</tr>
<tr>
<td>AT 2733 AND AT 2731, Care and Prevention of Athletic Injuries and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 2883, Foundations of Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>AT 3301, Clinical Instruction in Athletic Training III</td>
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<tr>
<td>AT 3311, Clinical Experience in Athletic Training III</td>
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<td>AT 3401, Clinical Instruction in Athletic Training IV</td>
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<tr>
<td>AT 3411, Clinical Experience in Athletic Training IV</td>
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</tr>
<tr>
<td>AT 3733 AND AT 3731, Advanced Assessment of Athletic Injuries and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 3743, Therapeutic Exercise</td>
<td>3</td>
</tr>
<tr>
<td>AT 3833 AND AT 3831, Therapeutic Modalities and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 4301, Clinical Instruction in Athletic Training V</td>
<td>1</td>
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<tr>
<td>AT 4311, Clinical Experience in Athletic Training V</td>
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<tr>
<td>AT 4401, Clinical Instruction in Athletic Training VI</td>
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<td>AT 4411, Clinical Experience in Athletic Training VI</td>
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<tr>
<td>AT 4722, Athletic Training Administration</td>
<td>3</td>
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<tr>
<td>AT 4743, Athletic Training Seminar</td>
<td>3</td>
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<tr>
<td>AT 4763, Athletic Training Seminar</td>
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</tr>
</tbody>
</table>

### Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 2011, Human Anatomy/Physiology Lab II</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2001, Human Anatomy/Physiology Lab I</td>
<td>4</td>
</tr>
<tr>
<td>PE 4843, Philosophy and Ethics in Sport</td>
<td>3</td>
</tr>
<tr>
<td>HPES 4863, Internship in HPESS I and HPES 4893, Internship in HPESS II</td>
<td>6</td>
</tr>
<tr>
<td>AT 3731, Advanced Assessment of Athletic Injuries and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 3311, Clinical Experience in Athletic Training III</td>
<td>1</td>
</tr>
<tr>
<td>AT 3733</td>
<td>4</td>
</tr>
<tr>
<td>AT 3743</td>
<td>3</td>
</tr>
<tr>
<td>HP 3003, Internship in HPESS I and HPES 4893, Internship in HPESS II</td>
<td>6</td>
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<tr>
<td>SOC 2213</td>
<td>3</td>
</tr>
<tr>
<td>HP 3003</td>
<td>3</td>
</tr>
</tbody>
</table>

### Exercise Science Bachelor of Science

#### General Education Requirements:

- Refer to index for General Education Curriculum for Baccalaureate Degrees
- Specific General Education Requirements:
  - All students in the Exercise Science program are required to take the following general education science courses and must complete these courses with a "C" or better:
    - CHEM 1013, Gen Chem I
    - CHEM 1011
    - CHEM 1011

#### Required Courses for Exercise Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 2883, Foundations of Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>ES 3543, Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>ES 3553, Basic Physiology of Activity</td>
<td>3</td>
</tr>
<tr>
<td>ES 3663, Techniques of Physiological Fitness Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ES 3663, Nutrition for Health, Sport and Exercise</td>
<td>3</td>
</tr>
<tr>
<td>ES 3863, Techniques of Aerobic Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>ES 3713, Cardiovascular Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ES 3743, Research and Statistical Methods in Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>ES 4673, Fitness Programming for Disabled</td>
<td>3</td>
</tr>
<tr>
<td>ES 4683, Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>ES 4693, Techniques of Strength Training and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>ES 4763, Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>ES 4813, Applied Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>ES 4843, Practical/Pre-Internship</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2513, Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2522, First Aid and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4543, Drug Use and Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4633, Health Promotion Assessment Planning</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 4643, Health Promotion Implementation and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HPS 4896, Internship in HPESS OR HPE 4863, Internship in HPESS I</td>
<td>6</td>
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<tr>
<td>CSCI 1013, Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2003, Human Anatomy/Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2011, Human Anatomy/Physiology Lab I</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2013, Human Anatomy/Physiology Lab II</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Electives:

- (depending on general education requirements)
- Total: 124

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### Athletic Training Admission Requirements

All candidates for a Bachelor of Science in Athletic Training must obtain official admission to the ATEP. Students desiring admission to the ATEP must meet the following criteria:

1. Declared major in Bachelor of Science in Athletic Training.
2. Minimum of 30 semester hours and a minimum cumulative GPA of 2.50.
3. Completion of the following courses with a grade of "C" or better in each: ZOOL 2001, ZOOL 2003, ZOOL 2011, ZOOL 2013, HLTH 2513, AT 2203, AT 2201.
4. Completion of one (1) semester of directed clinical observation with 75 hours being accumulated at Arkansas State University and completion of all assigned directed observer responsibilities.
5. Completion of personal interview with program selection committee upon request.
6. Submission of all program application forms to program director.

The number of appointments to the program will vary from year to year depending on space availability (not to exceed 12 per course). Program application materials must be received by April 1 of each year in order to be considered for Fall entry into the ATEP. Candidates will be notified of their admission status after June 1 of each academic year.


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 TB screening
3. Completed physical examination form
General Education Requirements: Refer to index for General Education Curriculum for Baccalaureate Degrees ........................................... 46-49

Specific General Education Requirements:  
SOM 1203, Oral Communications ........................................................................................................... 3

Health Promotion Bachelor of Science  

Sem. Hrs.

Major Requirements:  
SOM 1203, Oral Communication ........................................................................................................... 3

PE 3543, Human Anatomy and Anatomic Fundamentals of Motion .......................................................... 3
PE 3553, Basic Physiology of Activity ........................................................................................................ 3
PE 3673, Kinesiology .................................................................................................................................. 3
HLTH 2513, Principles of Personal Health .................................................................................................. 3
HLTH 2523, First Aid and Safety ................................................................................................................ 3
HLTH 2883, Foundations in Health Education ........................................................................................... 3
HLTH 3523, Public and Community Health ................................................................................................ 3
HLTH 3563, Human Sexuality .................................................................................................................... 3
HLTH 4513, Consumer Health .................................................................................................................. 3
HLTH 4523, Current Issues in Health .......................................................................................................... 3
HLTH 4543, Drug Use and Abuse ............................................................................................................... 3
HLTH 4633, Health Promotion Assessment and Planning ............................................................................ 3
HLTH 4643, Health Promotion Implementation and Evaluation ................................................................. 3
HPES 4896, Internship in HPES OR HPES 4863 and 4893 ..................................................................... 6
HP 2013, Medical Terminology ................................................................................................................ 3
JOUR 3673, Desktop Publishing & Publication Design .............................................................................. 3
NRS 2003, Basic Human Nutrition ............................................................................................................... 3
NRS 3563, Aging and the Older Adult OR SOC 3345, Sociology of Aging .................................................... 3
ZOOL 2001, Human Anatomy and Physiology I Laboratory AND ZOOL 2003, Human Anatomy and Physiology .......................... 4
ZOOL 2011, Human Anatomy and Physiology II Laboratory AND ZOOL 2013, Human Anatomy and Physiology II ........................................... 4

Sem. Hrs.

Electives: (depending on general education requirements) .......................................................... 1-4

Total 124

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 Professional Education Programs office.

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

Specific General Education Requirements: 
SOM 1203, Oral Communication ........................................................................................................... 3

Major Requirements:  
SOM 1203, Oral Communication ........................................................................................................... 3

ES 3543, Human Anatomy and Anatomic Fundamentals of Motion .......................................................... 3
ES 3553, Basic Physiology of Activity ........................................................................................................ 3
ES 4763, Kinesiology .................................................................................................................................. 3
HLTH 2513, Principles of Personal Health .................................................................................................. 3
HLTH 2523, First Aid and Safety ................................................................................................................ 3
HLTH 3533, Strategies for Teaching Health Education .............................................................................. 3
PE 1883, Foundations of Physical Education .............................................................................................. 3
PE 3802, Physical Education for Teachers of Young Children .................................................................. 3
PE 3823, Theory and Practice of Teaching Rhythmic Activities ................................................................. 3
PE 3832, Theory and Practice of Teaching Fitness Concepts ..................................................................... 3
PE 3842, Theory and Practice of Teaching Leisure Sports ......................................................................... 3
PE 3862, Theory and Practice of Teaching Racket Sports ......................................................................... 3
PE 3892, Theory and Practice of Team Sports ........................................................................................... 2
PE 4663, Motor Skills Development for Children .......................................................................................... 3
PE 4703, Adaptive Physical Education ........................................................................................................ 3
PE 4753, The Physical Education Curriculum .............................................................................................. 3
PE 4783, Organization and Administration of Physical Education .............................................................. 3
PE 4793, Evaluation in Physical Education .................................................................................................. 3
PE Electives to include one lower level activity course from each of the following areas: Aquatics, Gymnastics, Track and Field ........................................................................................................................................... 3

Professional Education Requirements:*  

* Refer to General Education Curriculum for Baccalaureate Degrees for list of required courses.  

Sem. Hrs.

Electives: (depending on general education requirements) .......................................................... 1-4

Total 124

Driver Education:  
DRED 4263, Basic Driver Education ........................................................................................................ 3
DRED 4273, Advanced Driver Education .................................................................................................. 3
HLTH 2523, First Aid and Safety ................................................................................................................ 3

Total 9

Coaching: (Required in Arkansas for coaching football, basketball, and track)  

ES 4693, Techniques of Strength Training and Conditioning ........................................................................ 3
ES 3553, Basic Physiology of Activity ........................................................................................................ 3
EDPE 3721, Rules and Officiating ................................................................................................................. 2
PE 3813, Concepts of Athletic Training ......................................................................................................... 3
PE 4873, Organization and Administration of Interscholastic Athletics ....................................................... 3
Two of the following courses:  
PE 4822, Theory and Practice of Coaching Football .................................................................................. 3
PE 4832, Theory and Practice of Coaching Basketball .................................................................................. 3
PE 4842, Theory and Practice of Coaching Track .......................................................................................... 3
PE 4852, Theory and Practice of Coaching Baseball ..................................................................................... 3
PE 4862, Theory and Practice of Coaching Gymnastics .................................................................................. 3
PE 4872, Theory and Practice of Coaching Volleyball .................................................................................... 3
PE 4882, Theory and Practice of Coaching Soccer ....................................................................................... 3

Total 18
College of Education 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.

Department of Psychology and Counseling

Psychology (PSY)

2013. Introduction to Psychology Study of the important scientific, principles of individual human behavior from biological, cognitive, social, and behavioral perspectives. Fall, Spring, Summer.

2023. Contemporary Psychology Contemporary Psychology Study of the nature of modern scientific psychology and its application to selected topics and issues of contemporary interest. Prerequisite, PSY 3013 or permission of instructor. Fall, Spring, Summer.

3101. Quantitative Methods Laboratory Laboratory for Quantitative Methods Laboratory associated with PSY 3103. Two hours per week. Corequisite, PSY 3103. Fall, Spring, Summer.

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. Fall, Spring, Summer.

3121. Experimental Psychology Laboratory Laboratory for Experimental Psychology Laboratory associated with PSY 3123. Two hours per week. Corequisite, PSY 3123. Spring, Fall.

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 3121. Spring, Fall.

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. Fall, Spring.

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. Fall, Summer.

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. Fall, Summer.

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. Spring, Summer.
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. Fall.

3523. Introduction to Social Psychology Analysis of the situational factors which influence various behaviors including aggression, altruism, and interpersonal attraction. Fall, Summer.

3613. Cultural Psychology This course focuses on issues of how human culture impacts the individuals behavior, attitudes, and mental health. Fall.

3703. Educational Psychology Survey of principles as they apply to education. Fall, Spring, Summer.

380V. 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. Spring, Summer.

3823. History of Psychology Overview of the history of psychology and recent systematic developments. Fall, Spring, Summer.

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 Instructors 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. Spring.

4323. Physiological Psychology Physiological bases of psychological constructs such as memory, reinforcement, attention, sleep, and motivation as each applies to humans and inframammalian species. Spring.

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 inframammalian data are considered. Fall.

4363. Cognitive Psychology The study of human thinking, emphasizing empirical knowledge on processes involved in information processing, memory, knowledge representation, language, and problem solving. Spring.

4533. Abnormal Psychology An introduction to various mental disorders, including their origins and characteristics. Fall, Spring, Summer.

4543. Personality Development Principles of development and organization of personality, with emphasis on influencing agents. Spring.

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. Demand.

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.

480V. Special Topics Workshop Study of selected professional topics. May not be used to satisfy any degree requirements. May be repeated for credit. Demand.

4853. Psychological Seminar Provides intensive coverage of contemporary psychological topics. Prerequisite, 12 hours of psychology and permission of instructor. May be repeated for credit. Demand.

DEPARTMENT OF EDUCATIONAL LEADERSHIP, CURRICULUM AND SPECIAL EDUCATION

Curriculum and Instruction (ELCI)

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 corequisite to the TI 4013 Teaching Internship in the Secondary School. Must be admitted to the Teacher Education Program. Fall, Spring.

4513. Teaching Global Perspectives Promotes effective teaching of global perspectives through various subject matter in elementary and secondary schools. Emphasis on the identification, demonstration, and critical evaluation of appropriate instruction strategies and resources. Must be admitted to the Teacher Education Program. Summer.

4523. Middle School Curriculum A practical and contemporary study of the organization and development of middle school curricula. Emphasis is on the study of subject field content trends, scheduling, curriculum scope and sequence, and student activities. Must be admitted to the Teacher Education Program. Summer.

480V. Special Topics Workshop A practical and contemporary study of the organization and development of middle school curricula. Emphasis is on the study of subject field content trends, scheduling, curriculum scope and sequence, and student activities. Must be admitted to the Teacher Education Program. Summer.

Special Education (ELSE)

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. Must be admitted to the Teacher Education Program. Summer.

3023. Individuals with Disabilities In depth study designed to develop knowledge of the characteristics of individuals with disabilities and the influence of these characteristics on the learning potential of these students. Must be admitted to the Teacher Education Program. Spring, Summer.
3643. **The Exceptional Student in the Regular Classroom**  
Introduction to exceptional students, with the major focus on serving these individuals in regular education classroom environments. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

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. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

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 and reporting of assessment data is emphasized. Prerequisite, SE 3023. Must be admitted to the Teacher Education Program. Fall, Summer.

4053. **Educational Procedures for Individuals with Mild Disabilities**  
A study of the principles and practices for assessment and identification of individuals with disabilities. Administration of formal and informal assessment instruments, and interpretation and reporting of assessment data is emphasized. Prerequisite, SE 3023. Must be admitted to the Teacher Education Program. Fall, Summer.

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. Must be admitted to the Teacher Education Program.

4603. **Secondary Curriculum and Career Development for Individuals with Mild Disabilities**  
In depth study designed to develop knowledge and understanding of the prevocational and vocational curricula and programs for individuals with mild disabilities. Principles for providing occupational orientation and work experiences, and techniques of curriculum planning, program planning, materials and management will be included. Must be admitted to the Teacher Education Program. Fall, Spring.

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. Must be admitted to the Teacher Education Program. Fall, Summer.

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. Must be admitted to the Teacher Education Program. Spring, Summer.

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. Must be admitted to the Teacher Education Program. Spring, Summer.

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. Must be admitted to the Teacher Education Program. Spring.

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. Must be admitted to the Teacher Education Program. Prerequisite, SE 4703. Summer.

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. Must be admitted to the Teacher Education Program. Spring.

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. Must be admitted to the Teacher Education Program. Demand.

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. Must be admitted to the Teacher Education Program. Fall, Spring.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND SPORT SCIENCES

**Athletic Training (AT)**

2201. **Emergency Management in Athletic Training Laboratory**  
A laboratory course offered concurrently with AT 2203 emphasizing emergency management techniques, such as spine boarding and splinting, in dealing with trauma resulting from injuries and illnesses suffered by an athletic population. Corequisite, AT 2203. Spring.

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. Corequisite, AT 2201. Spring.

2301. **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. Prerequisite, Admission to the Athletic Training Education Program. Corequisite, AT 2311. Fall.

2311. **Clinical Experience in Athletic Training I**  
This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Special course fee of $17.50. Prerequisite, Admission to the Athletic Training Education Program. Corequisite, AT 2301. Fall.

2401. **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. Prerequisites, AT 2301 and AT 2311. Corequisite, AT 2411. Spring.

2411. **Clinical Experience in Athletic Training II**  
This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Prerequisite, AT 2301 and AT 2311. Corequisite, AT 2401. Spring.

2731. **Care and Prevention of Athletic Injuries Laboratory**  
A laboratory course offered concurrently with AT 2733 emphasizing the practical aspects of taping, wrapping, and injury assessment. Prerequisite, AT 2203 and AT 2201. Corequisite, AT 2733. Fall.

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, AT 2203 and AT 2201. Corequisite, AT 2731. Fall.
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 Education 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. Spring.

3301. 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. Prerequisites, AT 2401 and AT 2411. Corequisite, AT 3111. Fall.

3311. Clinical Experience in Athletic Training III  This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Special course fee of $17.50. Prerequisites, AT 2401, AT 2411. Corequisite, AT 3301. Fall.

3401. 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. Prerequisites, AT 3301 and AT 3311. Corequisite, AT 3411. Spring.

3411. Clinical Experience in Athletic Training IV   This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Prerequisite, AT 3301 and AT 3311. Corequisite, AT 3401. Spring.

3731. Advanced Assessment of Athletic Injuries Laboratory  A laboratory course in which students practice the advanced skills necessary to evaluate athletic related injuries and illnesses. Prerequisite, AT 2731 and AT 2733. Corequisite, AT 3733. Fall.

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 3733. Fall.

3741. Therapeutic Exercise Laboratory  A laboratory course 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 3741. Spring.

3743. Therapeutic Exercise  A study of clinical sports therapy techniques used in the rehabilitation and reconditioning of athletic related injuries. Prerequisites, AT 3731 and AT 3733. Corequisite, AT 3741. Spring.

3831. Therapeutic Modalities Laboratory  A laboratory course 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. Corequisite, AT 3833. Spring.

3833. Therapeutic Modalities  A study of current theory and application in the use of therapeutic modalities in the athletic training setting. Prerequisites, AT 2731 and AT 2733, and PHYS 2054. Corequisite, AT 3831. Spring.

4301. Clinical Instruction in Athletic Training V  This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. Prerequisites, AT 3401 and AT 3411. Corequisite, AT 4311. Fall.

4311. Clinical Experience in Athletic Training V  This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Special course fee of $17.50. Prerequisite, AT 3401 and AT 3411. Corequisite, AT 4301. Fall.

4401. Clinical Instruction in Athletic Training VI  This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. Prerequisites, AT 4301 and AT 4311. Corequisite, AT 4411. Spring.

4411. Clinical Experience in Athletic Training VI  This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Prerequisite, AT 4301 and AT 4311. Corequisite, AT 4401. Spring.

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 3743. Fall.

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. For Athletic Training majors only. Prerequisite, AT 4723. Spring.

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. Age requirement of 21 and possession of a valid driver license to enroll for this course. Fall, Summer.

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. Fall.

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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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, ES 3553. Corequisite, PE 3713. Fall, Spring.

3633. Nutrition for Health, Sport and Exercise  Provides the student with information about nutrition as it pertains to health, sport, and exercise. Spring.

3653. 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. Spring.
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, ES 3553. Spring.

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. Fall, Spring.

Exercise Prescription for Special Populations  Provide the students with principles and practice in developing exercise regimens and programs specifically designed for special populations. Spring.

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, HLTH 3533. Fall.

Techniques of Strength Training and Conditioning  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, HLTH 3533. Fall.

Kinesiology  Mechanics of human motion and its application to physical activity. Prerequisite, ES 3543, Human Anatomy and Fundamentals of Motion. Fall, Spring.

Applied Motor Learning  The study and practical applications of relevant motor learning theories and research related to exercise science, physical education, and sport programs. Fall.

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, HLTH 4633. Fall.

Health (HLTH)

Principles of Personal Health  Principles, problems, and practices in the development of positive health behavior. Fall, Spring, Summer.

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. Fall, Spring, Summer.

Foundations of Health Education  This course will provide the scientific basis for conceptualizing and designing health education programs that are relevant, practical, and effective. Spring.

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. Fall.

Strategies for Teaching Health Education  Theory and teaching techniques for effective health instruction. Spring.

Human Sexuality  Emphasis given to human reproduction, courtship, marriage, parenthood, premarital and extramarital sex, and deviate sexual behavior. Fall, Spring, Summer.

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. Summer.

Current Issues in Health  Current issues and trends in personal, public, and international health with stress on individual research and readings. Fall.

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. Fall, Spring, Summer.

The School Health Program  The scope and function of the total school health program including common health problems, recommended program organization, and administrative practices. Demand.

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. Fall.

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, HLTH 4633. Spring.

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. Demand.

Health, Physical Education, Exercise Science (HPES)

Internship in HPESS I  Capstone experience for Exercise Science, Health Promotion, and Sport Management majors. Enrollment must occur during the last semester of the degree program. Must have completed all departmental requirements. Insurance fee of $17.50. Prerequisites, ES 4843 for Exercise Science majors only. Fall, Spring, Summer.

Internship in HPESS II  Capstone experience for Exercise Science, Health Promotion, Sport Management majors. Enrollment must occur during the last semester of the degree program. Must have all departmental requirements. Insurance fee of $17.50. Prerequisites for Exercise Science majors only, ES 4843. Fall, Spring, Summer.

Internship in HPESS  Capstone experience for Exercise Science, Health Promotion, and Sport Management majors. Enrollment must occur during the last semester of the degree program. Must have completed all departmental requirements. Insurance fee of $17.50. Prerequisites, ES 4843 for Exercise Science majors only. Fall, Spring, Summer.

Physical Education (PE)

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. Fall, Spring, Summer.

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. Fall, Summer.

Physical Conditioning  Basic conditioning. The course includes weight training, circuit training, cardiovascular and respiratory activity. Fall, Spring, Summer.
1121. **Figure Control**  The principles and concepts of exercise as related to enhancement of personal appearance. Fall, Spring.

1131. **Aerobic Exercise**  Basic conditioning involving continuous rhythmical movement. Individualized fitness programs are developed for each student. Fall, Spring.

1141. **Beginning Rugby**  Introduction to the basic skills, rules, and strategy of rugby. Fall.

1211. **Hiking and Backpacking**  Introduction to basic skills and knowledge of first aid, land navigation, outdoor skills, and equipment necessary to participate in hiking and backpacking. One weekend field trip required. Fall, Spring.

1221. **Rappelling and Rock Climbing**  Introduces the student to the fundamentals of rappelling and 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. Demand.

1231. **Country Western Dance**  Beginning instruction in skills and techniques of Country Western style dance steps. Fall, Spring.

1241. **Fitness Walking**  Fundamental techniques of and benefits derived from a regimented aerobic walking program. Fall, Spring.

1311. **Beginning Swimming**  Nonproficiency course designed to teach basic swimming skills for nonswimmers or beginning swimmers. Fall, Spring.

1321. **Water Aerobics**  Basic conditioning involving aquatic exercise, opportunity to develop and maintain fitness while enjoying water activities. Fall, Spring.

1411. **Track and Field**  Introduction to the fundamentals of track and field activities. Fall, Spring.

1421. **Racquetball**  Introduction to the basic skills, rules, and strategy in racquetball. Fall, Spring, Summer.

1461. **Archery**  Introduction to fundamentals of recreational archery. Fall, Spring, Summer.

1471. **Bowling**  Introduction to the basic techniques of bowling. Special course fee, $25.00. Fall, Spring.

1481. **Tennis**  Introduction to the basic skills, rules, and strategy in tennis. Fall, Spring, Summer.

1491. **Badminton**  Introduction to the basic skills, rules, and strategy in badminton. Fall, Spring.

1501. **Golf**  Introduction to the basic skills, rules, and strategy in golf. Fall, Spring.

1511. **Gymnastics**  Introduction to the basic skills in tumbling. Designed for BSE physical education majors. Fall, Spring.

1521. **Trampoline**  Instruction and practice in trampoline skills and routines. Demand.

1531. **Fencing**  Introduction to the basic skills, rules, and strategy of foil fencing. Demand.

1601. **Soccer**  Introduction to the basic skills, rules, and strategy in soccer. Fall, Spring.

1611. **Basketball**  Introduction to the basic skills, rules, and strategy of basketball. Fall, Spring.

1621. **Volleyball**  Introduction to the basic skills, rules, and strategy of volleyball. Fall, Spring.

1641. **Flag and Touch Football**  Introduction to the basic skills, rules, and strategy of flag and touch football. Fall, Spring.

1651. **Softball**  Introduction to the basic skills, rules, and strategy of softball. Fall, Spring.

1801. **International Folk Dance**  Folk dances of various people throughout the world, understanding of basic terms and steps. Demand.

1821. **Ballet**  Introductory course featuring the history, barre work, center floor, allegro moves, and body positions of ballet. Demand.

1841. **Ballroom Dance**  Techniques of the following dances, foxtrot, polka, waltz, Latin, basic moves, country western, swing, and others. Demand.

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. Fall, Spring.

2141. **Intermediate Rugby**  Instruction in skill, strategy, and techniques in rugby. For students who have already acquired the basic skills of rugby. Fall, Spring.

2311. **Intermediate Swimming**  Instruction and practice in five basic swimming strokes. Fall, Spring.

2811. **American Square and Round Dance**  Techniques and basics in square and round dancing. Spring.

3752. **Advanced Swimming and Lifeguarding**  Development of swimming and opportunity for certification in lifeguarding. Prerequisite, Intermediate swimming skill. Demand.

3762. **Aquatic Safety Instruction and Pool Management**  Advanced aquatic techniques and management of aquatic facilities. Prerequisite, Intermediate swimming skill. Demand.

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. Fall, Spring.

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. Demand.

3802. **Physical Education for Teachers of Young Children**  The philosophy, aims, and objectives of physical education in the grades P through 4, includes laboratory experiences. Fall, Spring, Summer.

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. Spring, Summer.

3823. **Theory and Practice of Teaching Rhythical Activities**  The values, scope, and analysis of rhythmical activities and basic movement experiences. Emphasis is given to instructional techniques and program progression. Prerequisites, SCED 2514 and PE 3802. Fall, Spring.

3832. **Theory and Practice of Teaching Fitness Concepts**  Instructional strategies designed to teach, develop and assess health related fitness components for grades P through 12. Prerequisite, PE 1002. Fall, Spring.
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 through 12. Prerequisites, SCED 2514 and PE 3802. Fall, Spring.

3853. Sports Promotion and Sales Management Theories, concepts, and research associated with sport consumer behaviors. Prerequisite, FIN 3713. Fall.

3862. Theory and Practice of Teaching Racket Sports Skill techniques, progression, and planning for instruction in selected racket sports, badminton, racquetball, pickleball, and tennis, for students in grades P through 12. Prerequisites, SCED 2514 and PE 3802. Fall, Spring.

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. Fall.

3872. Rules and Officiating A study of rules and techniques in officiating the following sports, baseball and softball, basketball, football and touch football, soccer, track and field, and volleyball. Fall, Spring.

3873. Facility and Event Management Principles and practices for operating athletic centers and recreational facilities. Spring.

3892. Theory and Practice of Teaching Team Sports Skill techniques, progression, and planning for instruction in basketball, flag and touch football, soccer, softball, and volleyball for students in grades P through 12. Prerequisites, SCED 2514 and PE 3802. Fall, Spring.

3893. Sports in America An overview of the impact and significance of play and sports as a social institution. Fall, Summer.


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. Fall.

471V. Independent Study Student may engage in supervised study of physical education issues. Demand.

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. Fall.

4753. The Physical Education Curriculum The course is designed to prepare prospective teachers to develop, implement, and assess the curricula within physical education. Prerequisites, SCED 2514 and PE 3802. Fall.


4783. Organization and Administration of Physical Education Problems relating to the planning and management of physical education programs in the public school. Fall, Spring.

4793. Evaluation in Physical Education Tests and evaluation procedures in the areas of physical fitness, motor ability, skill, and knowledge. Emphasis is placed on the administration of tests and use of results. Spring.

480V. Special Topics Workshop A specifically designed series of learning experiences to enhance the professional capabilities of teachers. Participants engage in meaningful learning activities and interact with recognized professionals in the field. May not be used to satisfy any degree requirements. May be repeated for credit. Demand.

4822. Theory and Practice of Coaching Football Team offenses and defenses, playing strategy, rules, scouting, and conditioning of players are discussed. Practice in basic fundamentals. Fall.

4832. Theory and Practice of Coaching Basketball Class follows same pattern as described in 4822 above. Spring.

4842. Theory and Practice of Coaching Track Instruction and practice in performing track events with emphasis on teaching techniques, also practicum in conducting competitive meets. Spring.


4852. Theory and Practice of Coaching Baseball Class follows same pattern as described in 4822 above. Fall.

4853. Applied Psychology of Sport and Exercise The study and practical applications of relevant psychological theories and research related to physical education, exercise, and sport programs. Fall.

4862. Theory and Practice of Coaching Gymnastics The study and practical applications of relevant psychological theories and research related to physical education, exercise, and sport programs. Spring.

4872. Rules and Officiating A study of rules and techniques in officiating the following sports, baseball and softball, basketball, football and touch football, soccer, track and field, and volleyball. Fall, Spring.

4873. Organization and Administration of Interscholastic Athletics A detailed study of problems encountered by coaches in planning and managing athletic contests, includes coaching psychology. Fall, Summer.

4882. Theory and Practice of Coaching Soccer This course is designed to provide prospective athletic coaches with knowledge and skill introduction regarding the game of soccer. Spring, Summer.

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. Summer.

Teaching Internship (TIPE)

4825. PHYSICAL EDUCATION TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

4826. PHYSICAL EDUCATION TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.
DEPARTMENT OF TEACHER EDUCATION

Early Childhood Education (ECH)

2002. Introduction to Education Technology Introduction to the use of technology in an educational setting, including system operations. This course is a corequisite to ELED 2202, prerequisite to MLED 3663 and screening into the Teacher Education Program P through 4 program. Must be admitted to the Teacher Education Program. Fall, Spring.

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. Seven clock hours of required observation. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

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, thirty clock hours of elementary classroom observation and directed assignments required. Must be admitted to the Teacher Education Program. Prerequisite, 15 semester hours. Fall, Spring.

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. Two clock hours of experience with children, as identified by instructors. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

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. Four clock hours of Field Experience in Preschool through 4th grade settings. Must be admitted to the Teacher Education Program. Prerequisites, ARED 3702, ECH 2012, ECH 2023. Fall, Spring, Summer.

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. Must be admitted to the Teacher Education Program.

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. Five clock hours of Field Experience and Microteaching required. Must be admitted to the Teacher Education Program. Prerequisite, ELED 3063. Fall, Spring, Summer.

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. Five clock hours of Field Experience required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2012, ECH 2023, ECH 3003, ECH 3013, ELED 3063, ELED 4003, RDN 3023. Corequisites, ECH 3063, ECH 3073. Fall, Spring.

3053. Curriculum Development in Early Childhood Education Provides students with opportunities to develop and implement appropriate curriculum experiences in the Preschool and Kindergarten setting. Seven hours of clock work in the P through 3 settings. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2012, ECH 2023, ECH 3013, ELED 3063, RDN 3023, and ECH 3003. Fall, Spring, Summer.

3063. Individualizing Programs for Children and Families Methods for individualizing programs for young children and their families, based upon individual strengths and needs. Six clock hours of observation required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2012, ECH 2023, ECH 3003, ECH 3013, ELED 3063, ELED 4003, RDN 3023, SE 3643. Corequisites, ECH 3043, ECH 3073. Fall, Spring.

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 fifty clock hours of field experience with infants, toddlers and preschoolers and 25 hours with agencies. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2012, ECH 3003, ECH 3013, ELED 3063, ELED 4003, RDN 3203. Corequisites, ECH 3043, ECH 3063. Fall, Spring.

3083. Integration of Technology into the Curriculum Teaches preservice teachers in the early childhood and midlevel programs how to integrate educational technology into the classroom curriculum. Must be admitted to the Teacher Education Program. Prerequisite, ECH 2002. Fall, Spring, Summer.

3093. Assessing and Evaluating Provides students with a set of measurement and evaluation skills. Attention will be focused on both standardized and teacher constructed instruments. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

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. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2013, 2023.

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 learning and development of children. Ten clock hours of Field Experience required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2012, ECH 2023.

4012. Organizing and Managing the Learning Environment Techniques of classroom management, theories of discipline, and positive behavior guidance. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

4013. Field Experience III Pre-Internship Observing, teaching, evaluating curricula and materials, managing classrooms, and addressing the diverse needs and learning strategies of children. 240 clock hours of Field Experiences is required. Must be admitted to the Teacher Education Program. Prerequisites, RDN 3203, ECH 3023, ECH 3033, ECH 3053. Corequisites, ECH 4012, ECH 4023, ECH 4043. Fall, Spring.

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. Three clock hours of field experience. Must be admitted to the Teacher Education Program. Prerequisites, ELED 3033, ELED 4003, ECH 3043, ECH 3053, ECH 3063, ECH 3073. Fall, Spring, Summer.

4043. Methods and Materials of Math and Science in Early Childhood Acquaints preschool teachers with the scientific and mathematic process skills. Emphasis placed on three types of learning, naturalistic, informal, and structured. Also the interrelatedness of Math and Science. Three clock hours of field experience. Must be admitted to the Teacher Education Program. Prerequisites, MATH 2113, MATH 2123, GSP 3203, ELED 3033, ELED 4003, ECH 3043, ECH 3053, ECH 3063, ECH 3073. Fall, Spring, Summer.

4053. Today’s Families: Interdisciplinary Approaches An interdisciplinary course designed to promote a critical approach to examining the family and its role in society. Must be admitted to the Teacher Education Program. Prerequisite, twelve hours of coursework in Interdisciplinary Family Minor OR Instructors 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. Must be admitted to the Teacher Education Program. Summer.

4063. Social Foundations of Education Develops a basic understanding of the foundations of the educational function in American society. Emphasis on the history, philosophy, and professional aspects of teaching. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

4086. Teaching Internship Kindergarten 6 semester hours. Prerequisite, Admission to the internship semester as specified by the Office of Professional Programs of the College of Education. Must be admitted to the Teacher Education Program. Fall, Spring.

4096. Teaching Internship Primary 6 semester hours. Prerequisite, Admission to the internship semester as specified by the Office of Professional Programs of the College of Education. Fall, Spring.

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. Ten clock hours of Field Experience required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 3603, ECH 3613, Corequisite, ECH 4613. Fall.

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. Ten clock hours of Field Experience required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 3603, ECH 3613. Corequisite, ECH 4603. Fall.

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 and mentoring, funding, finances, licensing, and curriculum implementation. Emphasis on professional development, including ethics and advocacy. Must be admitted to the Teacher Education Program. Prerequisites, ECH 4603, ECH 4613. Spring.

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. Must be admitted to the Teacher Education Program. Prerequisites, ECH 4623. Summer.

480V. Special Topics Current subjects of interest in Early Childhood Education professionals with appropriate subtitles. Must be admitted to the Teacher Education Program.

Elementary Education (ELED)

1001. Introduction to Technology Designed to teach students the prerequisite skills needed for ELED 3063, and for preservice education students new to or uncomfortable with technology. Must be admitted to the Teacher Education Program. Special course fees may apply. Spring, Summer.

3003. Human Growth and Learning Study of the nature and development of the child, including major theories of learning and learning processes. Four clock hours of child study projects required. Must be admitted to the Teacher Education Program. Special course fees may apply. Fall, Spring, Summer.

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. Must be admitted to the Teacher Education Program. Special course fees may apply. Prerequisite, 12 hours of coursework in interdisciplinary Family Minor OR instructors permission. Summer.

4613. Techniques of Behavior Management Techniques of systematic behavioral interventions, including all areas of exceptionality in regular classes, special classes, itinerant and resource programs. Students must complete a fifteen clock hour case study and behavior management project. Must be admitted to the Teacher Education Program. Special course fees may apply. Dual listed as SE 4613. Summer.

480V. Special Topics Current subjects of interest to graduate and undergraduate Elementary Education, Early Childhood Education or other educational professionals with appropriate subtitles. Course may include intensive study of subjects to meet the need of professional educators. All Special Topics Courses must be approved by the Teacher 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 and department chair prior to enrollment in the course. Must be admitted to the Teacher Education Program. Special course fees may apply.

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 corequisite to ELED 2202; prerequisite to MLED 3063 and screening into the Teacher Education P through 4 program.

2022. Introduction to Teaching Purposes and function of the elementary and middle school and its personnel. Assistance provided with career choices in the field of elementary and middle education thirty clock hours of elementary and middle classroom observation and directed assignments required. Prerequisite, 15 semester hours. Fall, Spring.

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 to 15 year olds. Three clock hours of fieldwork are required. Fall, Spring, Summer.

3013. Literacy Through Literature for the Middle Grades Designed to assist preservice teachers in becoming widely acquainted with the role literature plays in the continuing literacy development of middle level students. Features current trade books and other literary forms. Four clock hours of fieldwork are required in middle level classroom settings. Fall, Spring, Summer.

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. Five clock hours of field experience and microteaching required. Prerequisite, ELED 3063 or MLED 3063. Fall, Spring, Summer.

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. Fall, Spring, Summer.
3083. Integration of Technology into the Curriculum  Teaches preservice teachers in the middle level programs how to integrate educational technology into the classroom curriculum. Special course fee, $20.00.

3013. 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. Fall, Spring, Summer.

3023. 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. Fall, Spring, Summer.

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. Fall, Spring.

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. Fall, Spring, Summer.

4106. Teaching Internship in Middle Grades 4 to 5  Culmination of the middle 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. Fall, Spring.

4116. Teaching Internship in the Middle Grades 6 to 8  Culmination of the middle 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, Admit to the internship semester as specified by the Office of Professional Education Programs of the College of Education. Fall, Spring.

Reading (RDNG)

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. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

3413. Methods and Materials in Reading  Focuses on techniques and materials for teaching students with different learning styles. Emphasis on the basal reader, whole language, linguistic, language experience, and individualized approaches. Must be admitted to the Teacher Education Program. Fall, Summer.

4323. Clinical Problems in Reading  Focuses on assessment, evaluation, and remediation of reading problems, utilizing an interdisciplinary approach. Must be admitted to the Teacher Education Program. Prerequisite, RDNG 4303. Fall, Spring.

4343. Reading in the Content Areas Middle and Secondary Schools  For classroom teachers, reading specialists, and other educators. Emphasis on the relationship between learning strategies and reading content materials in the subject areas normally taught in grades 4 through 12. Prerequisite, RDNG 3203. Must be admitted to the Teacher Education Program. Fall, Summer.

4403. Early Literacy: Theory and Practice  Students develop, implement, and assess the effectiveness of literacy lessons in K through 4 classrooms. Forty five clock hours of field experience. Must be admitted to the Teacher Education Program. Prerequisites, RDNG 3203 and ECH 3013. Corequisite, RDNG 4400. Fall, Summer.

480V. Special Topics  Current subjects of interest to undergraduate and graduate reading education students. All special topics must be approved by the teacher education curriculum committee. One, two, or three credit hours. Special topics may be applied as elective credit to a degree program with written permission of advisor and department chair prior to enrollment in the course. Must be admitted to the Teacher Education Program.

Secondary Education (SCED)

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 and campus based experiences. Must be admitted to the Teacher Education Program. Prerequisite, 15 semester hours of college credit. Fall, Spring.

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. Must be admitted to the Teacher Education Program. Prerequisite, SCED 2514. Fall, Spring.

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. Must be admitted to the Teacher Education Program. Prerequisite, SCED 2514. Fall, Spring.

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. Must be admitted to the Teacher Education Program. Demand.
EDEN 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. Must be admitted to the Teacher Education Program. Fall.

EDEN 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. Must be admitted to the Teacher Education Program. Spring, even.

EDLA 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. Must be admitted to the Teacher Education Program. Fall.

EDMA 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. Must be admitted to the Teacher Education Program. Spring.

EDMU 4573. Methods and Materials for Teaching Instrumental Music Overview of the music curriculum K through 12. Emphasis on teaching strategies incorporating cognitive, psychomotor, and affective techniques appropriate to secondary school students. Opportunities to develop behavioral objectives, present demonstrations, plan rehearsals, and more. Must be admitted to the Teacher Education Program. Fall.


EDPE 4583. Methods and Materials for Teaching Physical Education in the Secondary School Assists 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. Must be admitted to the Teacher Education Program. Fall, Spring.

EDSC 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. Must be admitted to the Teacher Education Program. Fall, Spring.

EDSP 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. Must be admitted to the Teacher Education Program. Dual Listed EDSP 5543. Fall.

EDSS 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. Must be admitted to the Teacher Education Program. Fall, Spring.

Teaching Internship (TI___ ___)

TIAG 4825. AGRICULTURAL TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIAG 4826. AGRICULTURAL TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TIAR 4825. ART TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIAR 4826. ART TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TIBI 4825. BIOLOGY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIBI 4826. BIOLOGY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TIBU 4825. BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIBU 4826. BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TICH 4825. CHEMISTRY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TICH 4826. CHEMISTRY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TIEN 4825. ENGLISH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIEN 4826. ENGLISH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TIHI 4825. HISTORY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIHI 4826. HISTORY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TILA 4825. LANGUAGE TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TILA 4826. LANGUAGE TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TIMA 4825. MATH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.
TIMA 4826.  MATH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
           12 semester hours. Full semester teaching internship.  Fall, Spring.

TIMU 4825.  MUSIC TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
           Ten semester hours.  Full semester teaching internship.  Fall, Spring.

TIMU 4826.  MUSIC TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
           12 semester hours. Full semester teaching internship.  Fall, Spring.

Tipe 4825.  PHYSICAL EDUCATION TEACHING INTERNSHIP IN THE SECONDARY
           SCHOOL  Ten semester hours. Full semester teaching internship.  Fall, Spring.

Tipe 4826.  PHYSICAL EDUCATION TEACHING INTERNSHIP IN THE SECONDARY
           SCHOOL  12 semester hours. Full semester teaching internship.  Fall, Spring.

Tiph 4825.  PHYSICS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
           Ten semester hours.  Full semester teaching internship.  Fall, Spring.

TIPH 4826.  PHYSICS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
           12 semester hours. Full semester teaching internship.  Fall, Spring.

TISP 4825.  SPEECH COMMUNICATION TEACHING INTERNSHIP IN THE SECONDARY
           SCHOOL  Ten semester hours. Full semester teaching internship.  Fall, Spring.

TISP 4826.  SPEECH COMMUNICATION TEACHING INTERNSHIP IN THE SECONDARY
           SCHOOL  12 semester hours. Full semester teaching internship.  Fall, Spring.
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, 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.

Engineering Program

Professor Engelken, Director of EE; Professor Parsons, Director of CE; Assistant Professor Edgar, Director of ME; Associate Professors Mixon, Sherman; Assistant Professors Edrington, Elsayed, Haran, Young; Instructors Stewart, Walker

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.

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.

PROGRAM EDUCATIONAL OBJECTIVES

The overall educational objectives of the Engineering Program at Arkansas State University are:

1. All engineering graduates will have a broad education in the fundamentals of engineering principles and professional practices that forms a strong, flexible base and enables them to fill a variety of responsible engineering positions.
2. Most graduates will have specialized training in one area of concentration that will enable them to successfully perform at entry-level engineering positions. Some graduates will prefer and be capable of continuing their education in graduate school.

More specific objectives that reflect the desired outcomes or skills possessed by the engineering graduates are listed below. With respect to the first overall educational objective, graduates of the Engineering Program will have:

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. Graduates will have an ability to use the techniques, skills, and modern tools necessary for entry-level practice in their area of concentration;
2. 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, 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

<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, Composition</td>
<td></td>
</tr>
<tr>
<td>ENG 1013, Composition II</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Math 2204. Calculus I</td>
<td></td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH/SCOM 1203, Speech/Communication</td>
<td></td>
</tr>
<tr>
<td>Understanding Global Issues (One of following courses)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2223, Introduction to Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>GEOG 2133, Introduction to Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 1013, World Civilization since 1660</td>
<td></td>
</tr>
<tr>
<td>HIST 1023, World Civilization since 1660</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts. Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 2500, Fine Arts - Visual</td>
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</tr>
<tr>
<td>MUS 2500, Fine Arts - Musical</td>
<td></td>
</tr>
<tr>
<td>THEA 2500, Fine Arts - Theatre</td>
<td></td>
</tr>
<tr>
<td>Humanities. Select one of the following:</td>
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</tr>
<tr>
<td>ENG 2005, Introduction to the Literature of the Western World</td>
<td></td>
</tr>
<tr>
<td>ENG 2013, Introduction to the Literature of the Western World</td>
<td></td>
</tr>
<tr>
<td>Social Sciences**</td>
<td>6</td>
</tr>
<tr>
<td>Select two of the following (at least one course must be selected from HIST 2763, HIST 2773, or PSOC 2103.)</td>
<td></td>
</tr>
<tr>
<td>ECON 2313, Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 2333, Economic Issues and Concepts</td>
<td></td>
</tr>
<tr>
<td>HIST 2763, The United States since 1876</td>
<td></td>
</tr>
<tr>
<td>HIST 2773, The United States since 1876</td>
<td></td>
</tr>
<tr>
<td>POSC 1003, Introduction to Politics</td>
<td></td>
</tr>
<tr>
<td>POSC 2103, Introduction to American 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>7</td>
</tr>
<tr>
<td>Life Sciences:</td>
<td></td>
</tr>
<tr>
<td>BIOL 1063, People and the Environment</td>
<td></td>
</tr>
<tr>
<td>Physical Sciences:</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 1013, General Chemistry I, AND CHEM 1011, General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>Health and Wellness</td>
<td></td>
</tr>
<tr>
<td>PE 1002, Concepts of Fitness</td>
<td>4</td>
</tr>
<tr>
<td>Enhancements</td>
<td></td>
</tr>
<tr>
<td>PHYS 2034, University Physics I (Multimedia)</td>
<td>41</td>
</tr>
<tr>
<td>Other Rules:</td>
<td></td>
</tr>
<tr>
<td>A course may be counted in satisfaction of only one area requirement.</td>
<td></td>
</tr>
<tr>
<td>All at least one History course must be selected.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Additional required support courses:</td>
<td>8</td>
</tr>
<tr>
<td>MATH 2214 AND MATH 2504, Calculus II and III</td>
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</tr>
<tr>
<td>MATH 4403, Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>4</td>
</tr>
<tr>
<td>Major Requirements:</td>
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<tr>
<td>ENGR 1402, Concepts of Engineering</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 1412, Software Applications for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 2403. Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 2413 AND ENGR 2411, Mechanics of Materials and Mechanics of Materials Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 2423 AND ENGR 2421, Electric Circuits I and Electric Circuits I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 3413, Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 3423, Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 3433, Engineering Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 3443, Engineering Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 4453, Numerical Methods for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 4473, Senior Design Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration (selected from the three areas below)</td>
<td>43</td>
</tr>
<tr>
<td>TOTAL</td>
<td>132</td>
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</tbody>
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### Major in Engineering
Bachelor of Science in Engineering

#### 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

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 2202, Civil Engineering Presentations</td>
<td>2</td>
</tr>
<tr>
<td>CE 2223, Plane Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CE 3213, Structural Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>CE 3223, Civil Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>CE 3233, Structural Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>CE 3253, Engineering Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CE 3263, Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 3273, Water and Waste Systems</td>
<td>3</td>
</tr>
<tr>
<td>CE 4233, Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 4243, Reinforced Concrete Design OR CE 4283, Structural Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 4253, Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CE 4261, Soil Mechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 3471, Fluid Mechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 3473, Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Engineering Electives</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Approved Electives</strong></td>
<td>6</td>
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<tr>
<td><strong>Engineering Elective</strong></td>
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<td><strong>Total</strong></td>
<td>43</td>
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</table>

#### Electrical Engineering

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ECE 3401, Electronics Laboratory</td>
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<tr>
<td>ECE 3403, Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3419, Electric Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3333, Digital Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3343, Engineering Fields and Waves I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 3353, Continuous and Analog Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4323, Electrical Machinery OR ECE 4353, Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4373, Electronics II OR ECE 3363, Semiconductor M and Devices I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 4371, Intermediate ECE Laboratory OR ECE 3303, Semiconductor/Optoelectronics Materials and Devices I Laboratory</td>
<td>1-3</td>
</tr>
<tr>
<td>ECE 4383, Digital Electronics II, ECE 4350, Communications Theory, OR ECE 4313, Control Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>ECE or Computer Science Electives</strong></td>
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<tr>
<td><strong>Approved Electives</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Engineering Elective</strong></td>
<td>4-2</td>
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<tr>
<td><strong>Total</strong></td>
<td>43</td>
</tr>
</tbody>
</table>

#### Mechanical Engineering

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ENGR 3473 and ENGR 3471, Fluid Mechanics and Fluid Mechanics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ME 2502, Solid Modeling for Mechanical Engineers</td>
<td>2</td>
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<tr>
<td>ME 3504, Process Monitoring and Control</td>
<td>4</td>
</tr>
<tr>
<td>ME 3513, Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>ME 3533, Engineering Thermodynamics II</td>
<td>3</td>
</tr>
<tr>
<td>ME 4503, Fluid and Thermal Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 4543, Machine Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 4545, Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ME 4563, Introduction to Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>ME 4573, Mechanical System Design</td>
<td>3</td>
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<tr>
<td><strong>Mechanical Engineering Electives</strong></td>
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<tr>
<td><strong>Approved Electives</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>43</td>
</tr>
</tbody>
</table>

**NOTE:** The footnotes listed below are for all engineering curricula.

**Subject only to a program adviser's approval, these electives may be selected from any courses within the designated elective group that make a national contribution to the student's personal and professional education.
Technology Program

Charles Coleman, Director; Associate Professor Crumpton

ASSOCIATE IN SCIENCE DEGREE

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 accredited by The Higher Learning Commission.

BACHELOR OF SCIENCE DEGREE

The Bachelor of Science degree with a major in Technology offers five emphasis areas: Technical Studies, Technology Management, Computer Aided Drafting and Design, Computer Systems, 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 accredited by the Higher Learning Commission.

Major in Technology

Bachelor of Science

General Education Requirements:

Refer to index for General Education Curriculum for Associate in Science Degree

Specific General Education Recommendations:

Refer to General Education Curriculum for Baccalaureate Degrees

Requirements for Degree:

General Education Requirement:

Specific General Education Recommendations:

Core Requirements for Degree:

Emphasis Area: (select one of the five options):

Computer Aided Drafting and Design:

Select Seven of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tr>
<td>TECH 1423, Beginning Solid Modeling CADKEY I</td>
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</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>
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<tr>
<td>TECH 3413, AutoCAD / Inventor</td>
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<tr>
<td>TECH 3423, Intermediate Solid Modeling CADKEY II</td>
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<tr>
<td>TECH 3433, Advanced Solid Modeling CADKEY III</td>
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<tr>
<td>TECH 3453, Advanced Technology Design - Solid Works III</td>
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<tr>
<td>TECH 3473, Structural Drafting</td>
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<tr>
<td>TECH 3853, Computer Aided Manufacturing (CAM)</td>
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<tr>
<td>TECH 3873, Tool Design</td>
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<tr>
<td>TECH 4843, Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4883, Work Center Management</td>
<td>3</td>
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<td>Technology Electives</td>
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<td><strong>Total</strong></td>
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### Computer Systems:

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<th>Course</th>
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<tr>
<td>TECH 1013, Networking Essentials - Cisco I</td>
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<tr>
<td>TECH 1023, Router Technologies - Cisco II</td>
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</tr>
<tr>
<td>TECH2033, Advanced Routing and Switching - Cisco III</td>
<td>3</td>
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<tr>
<td>TECH 2043, WAN Technologies and Design - Cisco IV</td>
<td>3</td>
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<tr>
<td>TECH 2053, Building Scalable Networks - Cisco V</td>
<td>3</td>
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<tr>
<td>TECH 2063, Remote Access Networks - Cisco VI</td>
<td>3</td>
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<tr>
<td>TECH 4843, Labor Relations</td>
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<td>ENGR 4888, WorkCenter Management</td>
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<tr>
<td>Technology Electives</td>
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### Manufacturing - Industrial:

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<th>Course</th>
<th>Sem Hrs.</th>
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<tr>
<td>ENGR 2413, Mechanics of Materials and ENGR 2411 Mechanics of Materials Laboratory</td>
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<tr>
<td>ENGR 2423, Electric Circuits I and ENGR 2421 Electric Circuits I Laboratory</td>
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<tr>
<td>ENGR 2403, Statics</td>
<td>3</td>
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<tr>
<td>ENGR 3713, Fiscal Aspects</td>
<td>3</td>
</tr>
<tr>
<td>TECH 3703, Legal Aspects</td>
<td>3</td>
</tr>
<tr>
<td>TECH 4843, Labor Relations</td>
<td>3</td>
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<tr>
<td>Accounting or Management/Electives</td>
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<tr>
<td>TECH 3703, Legal Aspects</td>
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<tr>
<td>TECH 4843, Labor Relations</td>
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<td>TECH 4883, WorkCenter Management</td>
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### Technical Studies:

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<td>TECH 4883, WorkCenter Management</td>
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<tr>
<td>Technical Electives</td>
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### Electives:

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### Minor in Engineering

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<th>One of the following</th>
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<tr>
<td>CE 2022, Civil Engineering Presentations</td>
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<tr>
<td>ECIE 3302, Computer and Graphics Applications in Electrical Engineering</td>
<td>3</td>
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<tr>
<td>ENGR 1412, Software Applications for Engineers</td>
<td>3</td>
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<tr>
<td>ENGR 1402, Concepts of Engineering</td>
<td>3</td>
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<tr>
<td>ENGR 4453, Numerical Methods for Engineers,&quot;&quot;,&quot;&quot;,&quot;&quot;,&quot;&quot;</td>
<td>3</td>
</tr>
<tr>
<td>ME 2502, Solid Modeling for Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 2403, Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 2423 Electric Circuits I and ENGR 2421 Electric Circuits I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 2413 Mechanics of Materials and ENGR 2411 Mechanics of Materials Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGR, AGEN, CE, ECIE, or ME, prefix/5 courses of 2000, 3000 or 4000/level courses</td>
<td>13-15</td>
</tr>
<tr>
<td>TOTAL</td>
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</table>

*ENGR 1412 is strongly recommended unless the student has already completed an appropriate computer applications or programming course or otherwise has a demonstrated 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 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.

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### 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.

#### Civil Engineering (CE)

**2202. Civil Engineering Presentations** An introduction to 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. Spring.

**2223. Plane Surveying** Theory and practice of plane surveying. Lecture one hour, laboratory four hours per week. Prerequisite, C or better in MATH 1033 or equivalent. Fall.

**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. Spring.

**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 2413 and 2411. Fall.

**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. Fall.

**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 ENGR 3471 and ENGR 3473. Spring.

**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. Prerequisite, Junior standing, BIOL 1063, and C or better in CHEM 1013 and MATH 2204. Spring.
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. Spring.

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. Fall.

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. Spring.

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. Three foundation design projects are required. Prerequisite, C or better in CE 2202. Corequisite, CE 4253. Spring.

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. Fall.

4251. Soil Mechanics Laboratory  Experiments in analysis of soil systems including index properties, permeability, compressibility and shear strength. Corequisite, CE 4253. Fall.

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. Fall.

4263. Water and Waste Treatment  Design of physical, chemical and biological unit processes for treatment of water, wastewater and sludges. Advanced wastewater treatment processes are presented. Student papers on selected waste treatment applications are required. Prerequisites, C or better in CE 3273. Spring, 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. Spring, odd.

4283. Structural Steel Design  Design of structural systems in steel. Design of tension and compression members, beams with bending and axial stresses, bolted and welded connections. Prerequisite, C or better in CE 3213 and ENGR 3413. Spring.

Electrical 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. Corequisites, MATH 1013, MATH 1054, or MATH 2204. Demand.


3303. Semiconductor Optoelectronic Materials and Devices I Laboratory  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 to two hours, laboratory four to five hours per week. Prerequisite, C or better in CHEM 1011, PHYS 2034, and ECIE 3401. Corequisite, ECIE 3363. Spring.

3313. Electric Circuits II  Transient analysis, average power, RMS values, mutual inductance, resonance, network theorems and principles, polyphase networks, complex power. Prerequisite, C or better in MATH 2214 and ENGR 2423. Spring.

3331. Digital Electronics I Laboratory  Experimentation and design with digital electronic and computer components and circuits including logic gates, flip-flops, 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. Demand.

3333. 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, CS 2183 or C or better in ENGR 2423. Fall, Summer.

3343. 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, C or better in MATH 3254 and ECIE 3313. Fall.

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. Fall.

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. Pn junctions and Schottky barriers. Constraints and limitations on practical devices. Prerequisite, C or better in MATH 1013, PHYS 2034, ECIE 3403, and ENGR 3443. Spring, even.

3373. 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. Prerequisites, C or better in CS 2183 and ECIE 3333. Corequisite, ECIE 3373. Demand.

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, C or better in CS 2183 and ECIE 3333. Demand.
3401. Electronics I Laboratory Basic laboratory experiments in electronic circuits and solid state electronic devices. Corequisite, ECIE 3403. Prerequisite, C or better in ENGR 2421. Fall, Spring.

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. Fall, Spring.

3403. Engineering Field 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, C or better in MATH 4403 and ECIE 3343. Demand.


3421. Electrical Machinery Laboratory Experiments dealing with motor, generators, transformers, and associated measurements and controls. Prerequisite, C or better in ENGR 2421. Corequisite, ECIE 4323. Demand.

3423. 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 ENGR 2423, ENGR 3423, and either ECIE 3313 or ENGR 3473. Demand.


3444. Microprocessor Applications A microcomputer hardware interfacing course for senior level engineers. A survey of small computers and their application 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. Demand.

3453. Power Systems Generation, transmission, and distribution of large scale electrical power, associated energy losses and practical design problems and 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. Demand.

3463. Optical Electronics Review of electromagnetic waves, optics and semiconductors. Light detectors. Sources such as LEDs, laser diodes, and lasers. Optical fibers. Prerequisites, C or better in ECIE 3343 or ECIE 3363. Demand.

3471. Intermediate Electrical Engineering Laboratory Advanced design oriented experiments in analog electronic and AC electrical devices and circuits. Corequisite, ECIE 4373. Prerequisite, C or better ECIE 3401. Spring, odd.

3473. Electronics II A continuation of ECIE 3403 with emphasis on the analysis, simulation, and design of feedback, operational amplifier systems, frequency response, integrated circuits and power and waveshaping circuits. Prerequisite, C or better in ECIE 3313, ENGR 3443, and ECIE 3403. Spring, odd.

3481. Digital Electronics II Laboratory Introduction to microprocessor architecture, programming, interfacing, and design applications. Prerequisite, C or better in ECIE 3331 or ECIE 3401. Corequisite, ECIE 4383. Demand.

4303. 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. Demand.

4393. Discrete and Digital Systems Analysis and application of discrete and digital systems including finite difference based recursion equations, ztransforms, delay elements and memory devices, discrete and digital simulation of continuous and analog systems, and digital filter applications. Prerequisite, C or better in ECIE 3353. Demand.

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 4393. Demand.

4713. Semiconductor Materials and Devices II Continuation of ECIE 3363. Including configuration and operation of advanced solid state junction devices. Large scale to ultra large scale integration and miniaturization of electronics into integrated circuits. Metallization and shaping technology and manufacturing aspects. Prerequisite, C or better in ECIE 3363. Demand.

4723. Power Electronics and Control Electrical and electronic circuits for switching, relaying, shaping, and amplifying large current, voltage, and power signals, including relays, transformers, MOSFETs, diacs, triacs, SCRs, unjunction transistors, 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. Demand.

4733. Semiconductor Laboratory / Optoelectronic Materials & Devices II Continuation of ECIE 3303. Advanced semiconductor characterization, processing, device fabrication, metallization, 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 C or better in MATH 1023. Fall, Spring.

1403. Engineering Computer Solutions Problems encountered in different fields of engineering, analysis and solution to these problems. Prerequisite, C or better in MATH 1023 or equivalent. Lecture two hours, laboratory two hours per week. Demand.

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 C or better in MATH 1023. Fall, Spring.

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. Demand.
2403. Statics Principles of static equilibrium, analysis of structures, friction, center of gravity, moment of inertia, and product of inertia. Prerequisite, C or better in MATH 2204, and ENGR 1402. Fall, Spring, Summer.

2411. Mechanics of Materials Laboratory 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. Fall, Spring.

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. Fall, Spring, Summer.

2421. Electric Circuits I Laboratory Basic experimentation consistent with the theory in ENGR 2423. Prerequisite, ENG 1013, and C or better in ENGR 1402. Corequisite, ENGR 2423. Fall, Spring.

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 RL and RC circuits and introduction to steady state AC analysis. Prerequisite, C or better in ENGR 1412, MATH 2204 and PHYS 2034. Corequisite of MATH 2214. Fall, Spring, Summer.

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. Fall, Spring.

3423. Dynamics Kinematics and kinetics of particles and of rigid bodies, work and energy, impulse and momentum, special topics. Prerequisite, C or better in PHYS 2034, MATH 2214, and ENGR 2403. Fall, Spring, Summer.

3433. Engineering Economics Quantitative techniques for decision making, break-even analysis, economic models, gaussian distributions, inventory control, production models, and mathematical programming. Prerequisite, C or better in MATH 1023. Fall, Spring, Summer.

3443. 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, C or better in CHEM 1013 and ENGR 2403. Fall, Spring, Summer.

3453. Materials Science Structure and properties of solids, modification of structure for engineering purposes, characteristics of polymers, ceramics and metals. Prerequisite, C or better in CHEM 1013. Demand.

3463. 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. Demand.

3471. Fluid Mechanics Laboratory 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. Fall, Spring.

3473. Fluid Mechanics Basic fundamentals of fluid properties, fluid statics, fluid flow, 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 MATH 3254 and ENGR 2403. Fall, Spring, Summer.

349V. 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. Consent of Program Director required. Fall, Spring, Summer.

4453. Numerical Methods for Engineers Numerical methods and computational techniques for solving engineering design problems. Prerequisite, C or better in MATH 4403. Fall, Spring.

4473. Senior Design Practicum Interdisciplinary groups 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, legal and ethical issues, and effective communications. Lecture one hour, laboratory six hours per week. Prerequisite, C or better in ENGR 3413, senior status, and consent of instructor. Fall, Spring.

449V. 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 students advisor and the department chair. A written report is required. A copy must be filed in the department office. Demand.

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. Spring.

3504. Process Monitoring and Control Theory and application of instrumentation, measurement, and control of engineering systems. Prerequisites, C or better in MATH 4403, ENGR 2423 and ENGR 3443. Fall.

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, C or better in MATH 4403 and ENGR 3423. Spring.

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. Spring.

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 3473 and ENGR 3443. Fall.

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. Prerequisites, C or better in ENGR 3423. Demand.

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. Prerequisites, C or better in ENGR 2413. Fall.
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. Fall.

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. Spring.

2053. Building Scalable Networks Cisco V  Topics include, overview of scalable internetworks, managing traffic and access, managing IP traffic, extending IP addressing using VLMs, configuring OSPF in single area, interconnecting multiple OSPF areas, configuring enhanced IGRP, optimizing routing update operation, and configuring BGP. Prerequisite, TECH 2043. Fall.

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. Spring.

2453. Technology Design Solid Works I  Drawing and detailing with SolidWorks, a design automation software package used to produce parts, assemblies and drawing. Fall.

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. Spring, odd.

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. Spring, 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. Demand.

3403. Pro ENGINEER  A study of types of parent and child relation using constraints in CAD and CAM. Prerequisites, ME 2502 and TECH 2453. Fall.

3413. AutoCAD Inventor  A continuation of SolidWorks I. 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 2453. Spring.

3423. Intermediate Solid Modeling CADKEY II  A study of advanced techniques and workarounds type of parent and child relation using constraints. Prerequisites, ME 2502 and TECH 3403. Demand.

3473. Structural Drafting  Structural steel drafting is used to construct and design support frames for modern commercial and industrial buildings. Special emphasis is placed on how structural drafters in both structural design and fabrication offices prepare the working drawings required to help transform the architects vision into reality. Prerequisite, TECH 2453.
3713. Fiscal Aspects An introduction to fiscal structures and problems encountered in the technically oriented enterprise. Spring, odd.

372V. Technical Career Subjects Through this course students having work experience and 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 TECH 189V. 1 to 9 hours. Demand.

3753. Legal Aspects An introduction to the types of legal problems encountered in the technically oriented enterprise. Spring, even.

3773. Statistics Basic concepts and methods of statistics in a technical environment, including descriptive statistics, significant tests, estimation, sampling, and correlation. Demand.

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. Fall.

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. Spring.

3823. Mechanics I Introduction to statics and dynamics at the technologists level. Topics will include resultants and equilibrium of force systems, friction centroids, moments of inertia, plane motion, working energy. Prerequisite, MATH 1033. Fall.

3833. Mechanics II Properties and uses of metals, woods, concrete, and concrete products as materials of construction, analysis and selection for technological applications such as pressure vessels, shafts, beams, and columns. Prerequisite, TECH 3823. Spring.

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. Spring, 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, CADKEY experience. Summer.

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. Demand.

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. Fall.

3883. Machine Design Application of the theory developed in the fundamental technology courses to the design and selection of machine components such as journal and antifriction bearings, shafts, couplings, cams, gears, belts, chains, clutches, brakes, fasteners, and springs. Corequisite, TECH 3833. Spring, odd.

389V. 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. Advisers approval is required. 1 to 3 hours. Fall, Spring, Summer.


480V. Current Topics in Technology This course is designed to address specific needs of technology or industry. May be repeated for credit. 1 to 3 hours. Demand.

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. Demand.

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. Demand.

4833. Electric Motors Operation, installation, and troubleshooting of AC motors and electric motor control devices. Prerequisite, TECH 3803 or experience in electrical systems. Spring, even.

4843. Labor Relations Course will present the economic situation in which labor management problems operate in a technological environment. The course will cover the development of labor relations and collective bargaining techniques used by labor and management in their ongoing interactions in the technical work place. Fall, even.

4863. Applied Robotics This course includes basic robotics applications operating in varied environmental conditions, servomechanisms 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. Fall, odd.

4873. Motion and Time Study Principles and practices of motion and time study including process charts, operation charts, motion summary, and time standards. Spring, 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. Spring, odd.

489V. 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. Demand.
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.

### Major in Art

**Bachelor of Arts**

**Department of Art**

Professor Curtis Steele, Chair; Professors Allen, Carlisle, Chaffee, Keech, Rowe, Salvest; Associate Professors Pendergrass, Vickrey; Assistant Professors Balducci, Gill, Gipson, Matthiessen, Rambin.

**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.

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**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 Arts**

**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>MUS 2503, Fine Arts-Musical</td>
<td>1</td>
</tr>
<tr>
<td>THEA 2503, Fine Arts-Theatre</td>
<td>1</td>
</tr>
</tbody>
</table>

**Language Requirement:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language (French or German Preferred)</td>
<td>12</td>
</tr>
</tbody>
</table>

(This two years of a high school foreign language may be used to waive six semester hours of this requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 2593, Survey of Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 2593, Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
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</tbody>
</table>

**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 2013, Design III</td>
<td>3</td>
</tr>
<tr>
<td>ART 3033, Drawing III (two semesters)</td>
<td>6</td>
</tr>
<tr>
<td>ART 3035, Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 3035, Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 3035, Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3153, Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 4611, Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
</tr>
</tbody>
</table>

**Art History**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 4611, Senior Thesis</td>
<td>1</td>
</tr>
<tr>
<td>Art Electives</td>
<td>6</td>
</tr>
<tr>
<td>Art History Electives</td>
<td>24</td>
</tr>
<tr>
<td>History Electives</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy and Aesthetics Electives</td>
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</tr>
<tr>
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</tr>
</tbody>
</table>

**Electives:** (second language requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Electives</td>
<td>11</td>
</tr>
<tr>
<td>Total</td>
<td>130</td>
</tr>
</tbody>
</table>

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The degree programs are accredited by the National Association of Schools of Art and Design.
### Major in Art
#### Bachelor of Fine 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:

MUS 2503, Fine Arts-Musical AND THEA 2503, 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

POSC 2103, Introduction to United States Government

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1013</td>
<td>Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1023</td>
<td>Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1043</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2583</td>
<td>Survey of Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2593</td>
<td>Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 3033</td>
<td>Drawing III (two semesters)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3063</td>
<td>Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 3093</td>
<td>Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 3103</td>
<td>Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 3433</td>
<td>Illustration I</td>
<td>3</td>
</tr>
<tr>
<td>ART 4033</td>
<td>Advanced Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 4233</td>
<td>Graphic Design V</td>
<td>3</td>
</tr>
<tr>
<td>ART 4423</td>
<td>Graphic Design V</td>
<td>3</td>
</tr>
<tr>
<td>ART 4463</td>
<td>Advances Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 4493</td>
<td>Portfolio Presentation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>133</td>
</tr>
</tbody>
</table>

**Emphasis Area (Select one of the two options):**

*Art Studio Emphasis Areas: Drawing, Painting, Printmaking, Photography, Ceramics, and Sculpture (At least 15 of the 39 hours must be taken at the 3000 level in one Art Studio Emphasis area)*

**Art History Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2013</td>
<td>Design III</td>
<td>3</td>
</tr>
<tr>
<td>ART 3063</td>
<td>Painting</td>
<td>3</td>
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<td>Printmaking</td>
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<tr>
<td>ART 3103</td>
<td>Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 3083</td>
<td>Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3103</td>
<td>Sculpture</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

**Additional Requirements:**

- SCED 3903, Teaching Arts in the Elementary Grades ......................................................... 3
- SCED 4073, Concepts in Art Education                                                     3
- ART 3073, Watercolor                                                                     3
- ART 4330, Senior Exhibition                                                              0
- Art Studio Emphasis Area                                                                15
- **Total**                                                                              33

**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>SCED 2514</td>
<td>Introduction to Secondary Teaching</td>
<td>4</td>
</tr>
<tr>
<td>SCED 4515</td>
<td>Instructional Design for Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAR 4529</td>
<td>Methods and Materials in the Teaching of Art</td>
<td>3</td>
</tr>
<tr>
<td>SCED 4713</td>
<td>Educational Measurement with Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>TIAR 4826</td>
<td>Teaching internship in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>SE 3943</td>
<td>The Exceptional Student in the Regular Classroom</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

* See Bachelor of Science in Education degree—College of Education

**Prerequisite:** Admission to 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>SCOM 1203</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2513</td>
<td>Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Total:** 157

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### Major in Graphic Design
#### Bachelor of Fine 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:

MUS 2503, Fine Arts-Musical AND THEA 2503, Fine Arts-Theatre

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ART 1013</td>
<td>Design I</td>
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</tr>
<tr>
<td>ART 1023</td>
<td>Design II</td>
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</tr>
<tr>
<td>ART 1043</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2583</td>
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<td>ART 3033</td>
<td>Drawing III (two semesters)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3063</td>
<td>Painting</td>
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<tr>
<td>ART 3093</td>
<td>Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 3093</td>
<td>Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3103</td>
<td>Sculpture</td>
<td>3</td>
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<tr>
<td>ART 4033</td>
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<tr>
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<tr>
<td>ART 4463</td>
<td>Advances Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 4493</td>
<td>Portfolio Presentation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>39</td>
</tr>
</tbody>
</table>

**Additional Requirements:**

- Art History Electives (including ART 4573, History of Graphic Design) ....................... 9
- **Total**                                                                              133-136

---

### Major in Art Education
#### 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:

HIST 2763, The United States To 1876; OR HIST 2773, The United States Since 1876

MUS 2503, Fine Arts-Musical AND THEA 2503, Fine Arts-Theatre

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>Design II</td>
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</tr>
<tr>
<td>ART 1043</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2583</td>
<td>Survey of Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2593</td>
<td>Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 3033</td>
<td>Drawing III (two semesters)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3063</td>
<td>Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 3093</td>
<td>Printmaking</td>
<td>3</td>
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<tr>
<td>ART 3093</td>
<td>Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3103</td>
<td>Sculpture</td>
<td>3</td>
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<tr>
<td>ART 4033</td>
<td>Advanced Drawing</td>
<td>3</td>
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<tr>
<td>ART 4233</td>
<td>Graphic Design V</td>
<td>3</td>
</tr>
<tr>
<td>ART 4423</td>
<td>Graphic Design V</td>
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</tr>
<tr>
<td>ART 4463</td>
<td>Advances Digital Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 4493</td>
<td>Portfolio Presentation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

---

### Additional General Requirements:

- **Total** 18
**Studio Art Requirements:**

<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 3003, 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>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>

**Additional Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Electives:</em></td>
<td></td>
</tr>
<tr>
<td>ART 1013, Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1023, Design III</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033 AND 1043, Drawing I and II</td>
<td>6</td>
</tr>
<tr>
<td>Upper-level electives in Art</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>

**Minor in Art**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1013, Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1023, Design III</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033 AND 1043, Drawing I and II</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
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</tbody>
</table>

**Minor in Art History**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</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>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

**Minor in Graphic Design**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</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>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>

**Department of Music**

Professor Tom O'Connor, Chair; Professors Bartee, Jorgensen, Julien, Ross; Associate Professors Collison, Cris, Dauer, Lansford, Miller; Assistant Professors Bonner, Carey, Carroll, Hatch, Owen, Shack Clark, Seay; Instructor Horton

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 AND ART 2503, Fine Arts-Visual

**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

(No credit awarded for courses waived) Refer to index for Foreign Language Requirements

**Major Requirements:**

MUS 1100, Recital Attendance (6 semesters) 0
MUS 1511, 2511, AND 2511, MUS 2521, Aural Theory I-IV 4
MUS 1513, 1523, AND 2513, MUS 2523, Theory I-IV 12
MUS 1511, 1521, 2611, AND 2621, Keyboard Skills I-IV 6
MUS 2533, AND 3633, History of Western Music I, II, III 6
MUS Theory Electives (upper-level courses) 2
* Major Performance Area 9
* Music Ensemble 9
Total 30-41

**Minor:**

(Minor must be approved by adviser) 18-21

**Electives:**

(Number of hours determined by courses taken in foreign language and in the minor) 29-14

*Courses completed in this area must contribute to a total of 45 upper-level credits.

Total 127-136

*Courses used to meet the requirements for the major cannot be used to meet the requirements for the minor.
Major in Music
Bachelor of Music

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:
THEA 2503, Fine Arts-Theatre AND ART 2503, Fine Arts-Visual

Major Requirements:

Sem. Hrs.
MUS 1100, Recital Attendance (6 semesters) ........................................................................................................... 0
MUS 1511, 1521, AND 2511, AND 2521, Aurial Theory I - IV ................................................................................. 6
MUS 1513, 1523, AND 2513, MUS 2523, Theory I - IV ............................................................................................ 12
MUS 1611, 1621, 2511, AND 2621, Keyboard Skills I - IV ......................................................................................... 4
MUS 2533, AND 3633, History of Western Music I, II .............................................................................................. 6
MUS 3325, Elementary Conducting ......................................................................................................................... 2
MUS 3425, Elementary Orchestration and Choral Arranging ..................................................................................... 2
MUS 4412, Form and Analysis .................................................................................................................................. 2
MUS 4422, Composition in the Electronic Media .................................................................................................. 2
MUS 4512, Church Music OR MUS 4543, History of Jazz ..................................................................................... 2-3
MUSP 1112, Major Applied Area (2 semesters) — lower level .................................................................................... 4
MUSP 1113, Major Applied Area (6 semesters) — upper level ..................................................................................... 5
* MUSP 1111, Secondary Applied Area (4 semesters) ................................................................................................. 4

*These requirements will be piano for voice, composition, instrumental, and organ specialists; organ for piano specialists.

58-59

Special Emphasis Area Requirements:

Instrumental Performance:

Sem. Hrs.
MUS 3130, Junior Recital (one-half) ....................................................................................................................... 0
MUS 4161, Pedagogy and Performance .................................................................................................................. 2
MUS 4131, Senior Recital (full) ............................................................................................................................... 1
MUSP 3111, (Secondary Applied Area) ................................................................................................................ 4
Music Electives ....................................................................................................................................................... 13
Music Ensemble (must include 4 semesters of Wind Ensemble, Symphonic Band, or Orchestra) ....................... 8

28

Total 132-136

Voice Performance:

Sem. Hrs.
FR 1013 AND 1023, Elementary French I and II .................................................................................................... 6
GER 1013 AND 1023, Elementary German I and II ............................................................................................... 6
MUS 3130, Junior Recital (one-half) ....................................................................................................................... 0
MUS 3523, Song Literature ....................................................................................................................................... 3
MUS 3131, Senior Recital (full) ............................................................................................................................... 1
MUS 4161, Pedagogy and Performance .................................................................................................................. 1
MUSP 3111, Piano, 2 semesters ............................................................................................................................. 2
Music Ensemble (may include at least 3 semesters of MUS 3471, Opera Production) ............................................. 8

27

Total 131-135

Keyboard Performance:

Sem. Hrs.
FR 1013 and 1023, Elementary French I and II; OR GER 1013 and 1023, Elementary German I and II .................... 6
MUED 4642, Piano Pedagogy .................................................................................................................................... 6
MUS 3130, Junior Recital (one-half) ....................................................................................................................... 0
MUS 3533, Piano Literature .................................................................................................................................. 3
MUS 4131, Senior Recital (full) ............................................................................................................................... 1
MUS 4511, Collaborative Piano (Piano majors only) 2 semesters ........................................................................... 1
MUS 4512, Church Music (Organ majors only) .................................................................................................... 2
MUSP 4151, Collaborative Piano (Piano majors only) 2 semesters ..................................................................... 2
Music Electives (Organ majors 7, Piano majors 8) .................................................................................................... 9-76
Music Ensemble .................................................................................................................................................... 4

29-30

Total 133-138

Composition:

Sem. Hrs.
MUS 3130, Junior Recital (one-half) ....................................................................................................................... 0
MUS 3252, Choral Conducting, OR MUS 3242, Instrumental Conducting ................................................................. 2
MUS 4131, Senior Recital (full) ............................................................................................................................... 1
MUSP 3111, (Secondary Applied Area) 4 semesters ............................................................................................ 4
Music Electives ....................................................................................................................................................... 13
Music Ensemble (must include 4 semesters of large ensemble plus 2 semesters of small ensemble) ............... 8

28

Total 132-136

Major in Instrumental Music
Bachelor of Music 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:
ART 2503, Fine Arts-Visual AND THEA 2503, Fine Arts-Theatre
HIST 2763, The United States To 1876, OR HIST 2773, The United States Since 1876
POSC 2103, Introduction to United States Government
PSY 2013, Introduction to Psychology

Major Requirements:

Sem. Hrs.
Instrumental Technique Courses .................................................................................................................................... 5
Five of the following:
+ MUS 3231, Flute and Saxophone Techniques
+ MUS 3241, Double Reed Techniques
+ MUS 3251, Clarinet Techniques
+ MUS 3261, Trumpet Techniques
+ MUS 3271, Horn and Low Brass Techniques
+ MUS 3281, Percussion Techniques
MUS 1100, Recital Attendance (6 semesters) ............................................................................................................ 0
MUS 1331, 3331, Symphonic Band, OR MUS 1321, 3321, Wind Ensemble ............................................................ 4
MUS 1341, 3341, Marching Band .................................................................................................................................. 4
MUS 1511, 1521, AND 2511, MUS 2521, Aurial Theory I - IV .................................................................................. 4
MUS 1513, 1523, AND 2513, MUS 2523, Theory I - IV ............................................................................................. 12
MUS 1611, 1621, 2511, AND 2621, Keyboard Skills I - IV .......................................................................................... 4
MUS 2231, String Instrument Techniques ................................................................................................................ 1
MUS 2533, AND 3633, History of Western Music I, II .............................................................................................. 6
MUS 3232, Elementary Conducting .......................................................................................................................... 2
MUS 3242, Instrumental Conducting ........................................................................................................................ 2
MUS 3422, Elementary Orchestration and Choral Arranging .................................................................................... 2
MUS 4422, Composition in the Electronic Media .................................................................................................... 2
MUS 4512, Church Music OR MUS 4543, History of Jazz ................................................................................... 2-3
* MUSP 1111, (Applied piano) 1 semester .................................................................................................................. 1
MUSP 1112, (Major Applied Area) 3 semesters lower level ...................................................................................... 6
MUSP 3112, (Major Applied Area) 4 semesters upper level ...................................................................................... 8

64-65

+ Proficiency exams required on secondary band instruments and piano.
++ 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 MUS 1112. Failure to pass this exam will indicate the need to repeat MUS 1112 until such time as the exam can be passed.

Professional Education Requirements:* Sem. Hrs.
** EDMU 4573, Methods and Materials for Teaching Instrumental Music ............................................................... 3
** PSY 3703, Educational Psychology ................................................................................................................... 3
** SCED 2514, Introduction to Secondary Teaching .................................................................................................. 4
** SCED 3515, Performance Based Ins. Design ........................................................................................................ 5
** SCED 4713, Educational Measurement with Computer Applications ............................................................... 3
SE 2963, The Exceptional Student in the Regular Classroom .................................................................................... 3
** TIMU 4826, Teaching Internship in the Secondary School .................................................................................. 12

* See Bachelor of Science in Education degree-College of Education
** Prerequisite: Admission into the Teacher Education Program

Additional General Requirements for Teacher Education#: Sem. Hrs.
HLTH 2513, Principles of Personal Health ................................................................................................................ 3
PE Activity Elective ................................................................................................................................................... 1

4

#Students must pass an oral communication exam before admittance into the Teacher Education Program. Students who fail the exam must take SCOM 1203, Oral Communication to remove the deficiency.

Total 147-151
# Major in Vocal Music

## Bachelor of Music Education

### 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>

### Specific General Education Requirements:

* Students with this major must take the following:
  - ART 2503, Fine Arts-Visual
  - THEA 2503, Fine Arts-Theatre
  - HIS 2763, The United States To 1876
  - HIS 2773, The United States Since 1876
  - PSYC 2103, Introduction to Psychology

### Major Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 4613, Methods and Materials for Teaching Vocal Music in the Middle Grades</td>
<td>3</td>
</tr>
<tr>
<td>MUS 1100, Recital Attendance (6 semesters)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 1361, University Singers, OR MUS 1361, 3351, Concert Choir</td>
<td>7</td>
</tr>
<tr>
<td>MUS 1511, 1521, and 2511, MUS 2521, Aural Theory-I-V</td>
<td>12</td>
</tr>
<tr>
<td>MUS 1513, 1523, and 2513, MUS 2523, Theory-I-V</td>
<td>12</td>
</tr>
<tr>
<td>MUS 2111, 2121, AND 2621, Keyboard Skills-I-V</td>
<td>4</td>
</tr>
<tr>
<td>MUS 2231, String Instrument Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MUS 2331, AND 3601, History of Western Music I, II</td>
<td>6</td>
</tr>
<tr>
<td>MUS 3211 AND 3221, Division I and II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3232, Elementary Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 3232, Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4423, Composition in the Electronic Media</td>
<td>2</td>
</tr>
<tr>
<td>MUS 4512, Church Music OR MUS 4545, History of Jazz</td>
<td>2-3</td>
</tr>
<tr>
<td>MUP 1111, (Secondary Applied Area) 1 semester</td>
<td>1</td>
</tr>
<tr>
<td>MUP 1112, (Major Applied Area) 3 semesters lower level</td>
<td>6</td>
</tr>
<tr>
<td>MUP 3112, (Major Applied Area) 4 semesters upper level</td>
<td>8</td>
</tr>
<tr>
<td>** Although only one hour of piano is required for this degree, failure to pass the proficiency exam ** will indicate the need to take additional semesters of piano.</td>
<td>1-4</td>
</tr>
<tr>
<td>Those students who declare voice as their major area will take a proficiency exam in singing at the end of the third semester of MUP 1112. Failure to pass this exam will indicate the need to repeat MUP 1112 until such time as the exam can be passed. There will also be an exit exam at the end of the sophomore year.</td>
<td>1-4</td>
</tr>
<tr>
<td>Those students who declare piano as their Major Applied Area must use voice as the Secondary Applied Area. Although only one hour of voice is required for this degree, failure to pass the proficiency exam will indicate the need to take additional semesters of voice.</td>
<td>1-4</td>
</tr>
</tbody>
</table>

### Professional Education Requirements:

* EDMU 4643, Methods and Materials for Teaching Vocal Music                   | 3         |
* PSY 3553, Educational Psychology                                           | 3         |
* SED 2141, Introduction to Secondary Education                              | 4         |
* SED 3515, Performance Based Inst. Design                                   | 3         |
* SED 4773, Educational Measurement with Computer Applications               | 2         |
* SE 3643, The Exceptional Student in the Regular Classroom                  | 3         |
* TIMU 4826, Teaching Internship in the Secondary School                     | 12        |
* ** See Bachelor of Science in Education degree-College of Education     | 33        |
  * Prerequisite: Admission into the Teacher Education Program

### Additional General Requirements for Teacher Education:

<table>
<thead>
<tr>
<th>Requirement</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>
<tr>
<td>Students must pass an oral communication examination before admittance into the Teacher Education Program. Students who fail the exam must take SCOM 1203, Oral Communication, to remove the deficiency.</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>143-147</td>
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</table>

### Minor in Music (Not for Teacher Certification)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory</td>
<td>8</td>
</tr>
<tr>
<td>MUS 1511, Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 1513, Theory-I (prerequisite: MUS 1511 or permission of instructor)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 2511, Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 2513, Theory-II</td>
<td>1</td>
</tr>
<tr>
<td>Music History</td>
<td>5-6</td>
</tr>
<tr>
<td>MUS 2331, History of Western Music I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 2333, History of Western Music II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 4512, Church Music</td>
<td>1</td>
</tr>
<tr>
<td>MUS 4543, History of Jazz</td>
<td>1</td>
</tr>
<tr>
<td>Applied Music (composition, instrumental, keyboard, or voice-4 semesters in one performance area)</td>
<td>4</td>
</tr>
<tr>
<td>Music electives may be used to satisfy upper-level courses.</td>
<td>6</td>
</tr>
<tr>
<td>Twelve hours must be upper level courses.</td>
<td>23-24</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>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>

### 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>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 1203, Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1213, Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2203, Fundamentals of Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2233, Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2343, Stage Costume Construction</td>
<td>3</td>
</tr>
<tr>
<td>THEA 3223, Studies in Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>THEA 3232, Theatre Laboratory</td>
<td>12</td>
</tr>
<tr>
<td>THEA 4203, Stage Directing</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4263 AND THEA 4273, History of the Theatre I and II</td>
<td>6</td>
</tr>
<tr>
<td>THEA 4385, Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>42</td>
</tr>
</tbody>
</table>

### Emphasis Area (Select one of the four options):

#### Acting:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 1111, Voice</td>
<td>2</td>
</tr>
<tr>
<td>THEA 2203, Voice and Movement for Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2213, Creative Improvisation</td>
<td>3</td>
</tr>
<tr>
<td>THEA 3213, Audition Techniques</td>
<td>3</td>
</tr>
<tr>
<td>THEA 3243, Stage Combat</td>
<td>3</td>
</tr>
<tr>
<td>THEA 3263, Acting Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>THEA 3273, Voice and Movement for Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4213, Acting on Camera</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4253, Theatre Management</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4283, Period Styles in Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4333, Advanced Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4343, Musical Theatre Electives (advisor approval required)</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>38</td>
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</table>
### Minor in Theatre

<table>
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<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>THEA 1213, Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2223, Fundamentals of Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2233, Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Theatre Electives (no more than 4 hours of lab and no more than 6 hours of summer theatre)</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
</tr>
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</table>

### Art Education (ARED)

**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. Special course fees may apply. Fall, Spring, Summer.

**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. Special course fees may apply. Prerequisite, ART 1013 and ART 1033. Demand.

**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. Special course fees may apply. Prerequisite, 30 semester hours completed, ART 1013, ART 1033, ART 2583, and ART 2593. Spring.

**4703. Concepts in Art Education** A study of historical and contemporary philosophical concepts in art education. Prerequisite, Acceptance into a teacher education program. Special course fees may apply. Prerequisites, ARED 3803, and PHIL 1103 or PHIL 1503. Spring.

**4753. Special Problems in Art Education** Independent study of approved topics in Art Education. May be repeated for credit. Special course fees may apply. Prerequisite, Permission of professor. Demand.

### Art (ART)

**1013. Design I** STUDIO ART. Fundamental principles of design and the theory of color. 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 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. Special course fees may apply. Fall, Spring.

**1023. Design II** STUDIO ART. 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. 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 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. Special course fees may apply. Prerequisites, ART 1013 and ART 1033. Fall, Spring.
1033. Drawing I  STUDIO ART. 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 clothed life models, still life, landscape, and imagined sources. Basic concepts of professional art ideals and practices. 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 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. Special course fees may apply. Fall, Spring, Summer.

1043. Drawing II  STUDIO ART. 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, undraped life models, landscape, and imagined subjects. 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 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. Special course fees may apply. Prerequisite, ART 1033. Fall, Spring, Summer.

1073. Elective Fine Art Photography for Nonmajors  STUDIO ART. 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. 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 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. Special course fees may apply. Prerequisite, ART 1033. Fall, Spring, Summer.

2413. Graphic Design I  GRAPHIC DESIGN. Basic principles of typography, printing processes, design and visual communication as they relate to graphic design. 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 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. Prerequisite, ART 1013. Fall.

2423. Graphic Design II  GRAPHIC DESIGN. 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. 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 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. Prerequisite, ART 2413. Spring.

2433. Digital Photography I  GRAPHIC DESIGN. 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. 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 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. Prerequisite, ART 1013 Design I for art majors. Fall.

2443. Introduction to Digital Design  GRAPHIC DESIGN. This course will instruct students in the design and implementation of multimedia presentations, interface design and other computer based media design. 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 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. Prerequisites, Nonmajors, ART 2503, Art majors, ART 1013, or instructors permission. Fall, even.

2453. Visual Thinking  STUDIO ART. 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. 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 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. Prerequisites, Nonmajors, ART 2503, Art majors, ART 1013, or instructors permission. Fall, even.

3033. Drawing III  STUDIO ART. Continuation of development of drawing skills and concepts. Students at this level should have well developed drawing skills and good understanding of drawing principles. Undraped life models and still life will be used. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033 and 1043, ART 2583, ART 2593. Fall, Spring, Summer.
3063. Painting — STUDIO ART. Introduction to composition and techniques in painting media. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. Fall, Spring.

3073. Watercolor Painting — STUDIO ART. Emphasis on the development of composition and techniques with transparent watercolor media. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. Fall.

3083. Printmaking — STUDIO ART. Covers intaglio, relief, silkscreen, lithography and contemporary printmaking techniques. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. May be repeated for credit. Fall, Spring.

3093. Ceramics — STUDIO ART. Introduction to ceramic materials and techniques, wheelthrown and handbuilt form. Glazing and firing undertaken. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. Fall, Spring.

3103. Sculpture — STUDIO ART. Studio practice and experimentation in three dimensional design. Clay, wood, metal, and other materials are used. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. Fall, Spring.

3333. Professional Relations for Artists — STUDIO ART. Concepts and practices used in exhibiting, marketing and promoting the artist and the artists creative work. Topics include career opportunities, artist statements, documenting artwork. Group exhibition at end of term. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. Fall, Spring.

3403. Photography — STUDIO ART. An introductory study of photographic equipment, materials, and processes. Requires three hours of lab per week. 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 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. Special course fees may apply. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593. Fall.

3413. Graphic Design III — GRAPHIC DESIGN. 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. 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 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. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2013, ART 2423, ART 2583, and ART 2593. Fall.

3423. Package Design — GRAPHIC DESIGN. Structure, color, and graphics and creative application to the field of packaging. Designing of three dimensional containers and displays. 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 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. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2013, ART 2423, ART 2583, and ART 2593. May be repeated for credit. Fall.

3433. Illustration I — GRAPHIC DESIGN. Introduction to illustration methods, materials and techniques. 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 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. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, and either 3063 or 3073. Fall, Spring.

3443. Graphic Design IV — GRAPHIC DESIGN. Various letter styles and the creative application of measuring systems, copy preparation, and history. The emphasis will be on aesthetic discrimination. It is expected that students will pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisites, ART 3413. May be repeated for credit. Spring.

3453. Motion Graphics — GRAPHIC DESIGN. This course will explore the foundations of motion graphics. Design for screen, effective use of typography, graphic elements, sound, video and motion are covered with simple animations logo and shape motion and environmental visual effects. 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 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. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593, and either 3063 or 3073. Fall, Spring.

3453. Motion Graphics — GRAPHIC DESIGN. This course will explore the foundations of motion graphics. Design for screen, effective use of typography, graphic elements, sound, video and motion are covered with simple animations logo and shape motion and environmental visual effects. 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 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. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593, and either 3063 or 3073. Fall, Spring.

3463. Graphic Design IV — GRAPHIC DESIGN. Various letter styles and the creative application of measuring systems, copy preparation, and history. The emphasis will be on aesthetic discrimination. 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 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. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593, and either 3063 or 3073. Fall, Spring.

3463. Graphic Design IV — GRAPHIC DESIGN. Various letter styles and the creative application of measuring systems, copy preparation, and history. The emphasis will be on aesthetic discrimination. 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 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. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ART 2583, ART 2593, and either 3063 or 3073. Fall, Spring.

3673. Seminar in Digital Media and Design — GRAPHIC DESIGN. A study of the development and impact of digital media. Also listed as RTV 3673. 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 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. Prerequisites, ART 1013, ART 1023, ART 1043, ART 2423, AR Spring odd.

4033. Advanced Drawing — STUDIO ART. 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. 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 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. Special course fees may apply. Fall, Spring.
4063. Advanced Painting  STUDIO ART. 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. 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 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. Special course fees may apply. Fall, Spring.

4083. Advanced Printmaking  STUDIO ART. Continuation of Printmaking 3083. Prerequisites, ART 3083 and passing the BFA Review for students in BFA programs. May be repeated for credit. 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 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. Special course fees may apply. Fall, Spring.

4093. Advanced Ceramics  STUDIO ART. 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. 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 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. Special course fees may apply. Fall, Spring.

4103. Advanced Sculpture  STUDIO ART. Continuation of sculpture work with emphasis on development of personal direction. Prerequisite, ART 3103. BFA students must pass BFA Review. May be repeated for credit. 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 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. Special course fees may apply. Fall, Spring.

4330. Senior Exhibition  STUDIO ART. 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. 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 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. Special course fees may apply. Fall, Spring, Summer.

435V. Studio Problems  STUDIO ART. An opportunity for the studio oriented student to explore and develop techniques and concepts in both two and three dimensional media. Areas not covered 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. 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 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. Special course fees may apply. Fall, Spring, Summer.

4363. Graphic Design Internship  GRAPHIC DESIGN. Supervised work in a professional graphic design setting. Prerequisite, consent of department chair, and passing the BFA review for students in BFA program. 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 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. Fall, Spring, Summer.

4403. Photography for the Graphic Designer I  GRAPHIC DESIGN. 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. 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 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. Prerequisite, ART 2423, and passing the BFA review for students in the BFA programs. Spring, even.

4413. Photography for the Graphic Designer II  GRAPHIC DESIGN. 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. 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 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. Prerequisite, ART 4403 and passing the BFA review for students in BFA program. Spring, even.

4423. Graphic Design V  GRAPHIC DESIGN. Continued application of the design problems with a special emphasis on idea development and presentation techniques. May be repeated for credit. 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 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. Prerequisite, ART 3413 and passing the BFA review for students in BFA program. Fall.

4433. Illustration II  GRAPHIC DESIGN. Advanced studies in various illustrative materials and techniques including computer applications. May be repeated for credit. 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 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. Prerequisite, ART 3433 and passing the BFA review for students in BFA program. Fall, Spring.

4443. Photography as a Fine Art I  STUDIO ART. 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. 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 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. Prerequisite, ART 1013, ART 1023, ART 1033, ART 2583, ART 2593, and permission of advisor, instructor, and department chair, and passing the BFA Review for students in BFA programs. 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 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. Special course fees may apply. Prerequisite, ART 1013, ART 2583, ART 2593, and permission of advisor, instructor, and department chair, and passing the BFA Review for students in BFA programs. 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 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. Special course fees may apply. Prerequisite, ART 4443. Fall, even.

4445. Photography as a Fine Art II  STUDIO ART. Advanced studies in photography as fine art, includes silver and nonsilver based processes with emphasis on aesthetic expression. 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 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. Special course fees may apply. Prerequisite, ART 4443. Fall, even.
4493. **Portfolio Presentation** GRAPHIC DESIGN. Capstone course required for all graduating BFA, Graphic Design emphasis students. Preparation of portfolio of graphic design solutions that demonstrate the students overall knowledge and special skills. Prerequisite, minimum GPA of 2.75 in all course work with an ART prefix and permission of adviser and instructor. 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 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. Prerequisite, ART 2443 and passing the BFA review for students in BFA program. Spring, odd.

4591. **Senior Thesis** STUDIO ART. 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. 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 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. Special course fees may apply. Fall, Spring, Summer.

### Art History (ARTH)

2583. **Survey of Art History I** General investigation of the historical development of art from prehistoric periods to the Renaissance. Fall, Spring.

2593. **Survey of Art History II** Continuation of ART 2583, covering the period from the Renaissance to the Modern period. Fall, Spring.

3443. **19th Century European Art** This course examines major artists and works of art in Europe from the beginning of the French Revolution to the end of the nineteenth century. Prerequisites, ARTH 2583, ARTH 2593 for art majors. Fall even.

3503. **History of Photography** History, aesthetics, and appreciation of photography. Prerequisites, ARTH 2583, ARTH 2593 for Art majors. Spring, Odd.

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. Demand.

3533. **Renaissance Art History** Artists, styles, and development of art during the Renaissance Period in Italy and northern Europe. Prerequisites, ARTH 2583, ARTH 2593 for Art majors. Fall, odd.

3553. **Medieval Art History** Formation and development of art from the early Christian through the Gothic period. Prerequisites, ARTH 2583, ARTH 2593. Students in BFA programs must pass the BFA Review. Demand.

3563. **Baroque and Rococo Art** Artists, styles, and developments of Baroque and Rococo Art immediately following the Renaissance. Prerequisites, ARTH 2583, ARTH 2593 for Art majors. Spring, even.

### Teaching Internship (TIAR)

**TIAR 4825. ART TEACHING INTERNSHIP IN THE SECONDARY SCHOOL** Ten semester hours. Full semester teaching internship. Fall, Spring.

**TIAR 4826. ART TEACHING INTERNSHIP IN THE SECONDARY SCHOOL** 12 semester hours. Full semester teaching internship. Fall, Spring.

### DEPARTMENT OF MUSIC

#### 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 non music majors only. Fall, Spring, Summer.

3613. **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. Demand.

3623. **Music in the Elementary School** Current philosophies and practices in curriculum planning for the elementary school music program. Major majors only. Fall.

3633. **Music Recording Techniques** Music recording techniques designed for the music educator. Special emphasis on essential electronic equipment, its use and maintenance. Demand.


466V. Special Problems in Music Education  Independent study of approved topics for juniors and seniors arranged in consultation with a professor. Must have Departmental approval. Fall, Spring, Summer.

Music (MUS)

1211. Elementary Piano  PERFORMANCE COURSES GROUP INSTRUCTION. Beginning piano class. Two laboratory periods per week. Special course fees may apply. Fall, Spring, Summer.

1221. Elementary Piano II  PERFORMANCE COURSES GROUP INSTRUCTION. Membership is open to all interested university students. The group performs at all regular and post season home football games with some travel to away games. Rehearsals are held MTWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

1231. Guitar Class I  PERFORMANCE COURSES GROUP INSTRUCTION. Open to all ASU students. An introductory course to teaching 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. Special course fees may apply. Fall.

1241. Guitar Class II  PERFORMANCE COURSES GROUP INSTRUCTION. Open to all ASU students who have completed Guitar Class I. Prerequisite, MUS 1231. May be repeated for credit. Special course fees may apply. Spring.

1251. Elementary Voice Class and Sight-Singing  BASIC MUSIC THEORY. 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. Fall.

1310. Wind Ensemble  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Membership is open to all interested university students. The group performs at all regular and post season home football games with some travel to away games. Rehearsals are held MTWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

1321. Wind Ensemble  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. 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 week of the fall semester over pretested materials 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. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

1330. Symphonic Band  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students without audition. This group rehearses MWTh from 3:30 to 4:30 p.m. during the Spring Term and performs two scheduled concerts. Special course fees may apply. Large ensemble courses may be repeated for credit. Spring.

1340. Marching Band  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. 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 MTWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

1350. Concert Choir  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

1360. University Singers  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

1361. University Singers  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

1403. Music Fundamentals  BASIC MUSIC THEORY. 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. Demand.

1511. Aural Theory I  BASIC MUSIC THEORY. Training in oral perception and the basic skills of sight singing. Two class periods per week. Fall.

1513. Theory I  BASIC MUSIC THEORY. 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. Fall.

1521. Aural Theory II  BASIC MUSIC THEORY. Continued training in aural and sight singing skills with emphasis on diatonic melody and harmony. Two class periods per week. Prerequisite, C or better in MUS 1511. Spring.

1523. Theory II  BASIC MUSIC THEORY. Diatonic harmony with emphasis on music practices of the 16th and 17th centuries. Prerequisite, C or better in MUS 1513. Spring.

1611. Keyboard Skills 1  PERFORMANCE COURSES GROUP INSTRUCTION. For non pianist Music Majors. To develop piano sight reading and repertoire, and to enhance corresponding courses, Music Theory I and Aural Theory I. Non music majors admitted with permission of instructor. Special course fees may apply. Fall, Spring, Summer.

1621. Keyboard Skills 2  PERFORMANCE COURSES GROUP INSTRUCTION. For non pianist Music Majors. To develop piano sight reading and repertoire, and to enhance corresponding courses, Music Theory II and Aural Theory II. Prerequisites, MUS 1611 or permission of instructor. Special course fees may apply. Fall, Spring, Summer.
2211. Intermediate Piano I  PERFORMANCE COURSES GROUP INSTRUCTION. A continuation of MUS 1221. Two laboratory periods per week. Prerequisite, MUS 1221 or permission of instructor. Special course fees may apply. Fall.

2221. Intermediate Piano II  PERFORMANCE COURSES GROUP INSTRUCTION. Continuation of MUS 211. Prerequisite, MUS 2211 or permission of instructor. Special course fees may apply. Spring.

2231. String Instrument Techniques  PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in string instrument performance. Two laboratory periods per week. Prerequisite, C or better in MUS 1521. Spring.

2503. Fine Arts-Musical  FINE ARTS. An introduction to music for the listener who has had no formal training or experience. The purpose is to develop listening skills. Fall, Spring, Summer.

2511. Aural Theory III  BASIC MUSIC THEORY. Continued training in aural and sight singing with emphasis on extended tonal and atonal practices. Two class periods per week. Prerequisite, C or better in MUS 2511. Fall.

2513. Theory III  BASIC MUSIC THEORY. Chromatic harmony, basic music forms and analysis with emphasis on music of the 18th and 19th centuries. Prerequisite: Grade of C or better in MUS 2513. Spring.

2521. Aural Theory IV  BASIC MUSIC THEORY. Continued training in aural and sight singing with emphasis on extended tonal and atonal practices. Two class periods per week. Prerequisite, C or better in MUS 2511. Spring.

2523. Theory IV  BASIC MUSIC THEORY. Advanced tonal and atonal practices of music from the late 19th and 20th centuries through analysis. Prerequisite, C or better in MUS 2513. Spring.

2533. History of Western Music I  BASIC MUSIC HISTORY AND LITERATURE. A study of the evolution of musical style from antiquity through the Pre Classical era. Both score analysis and listening analysis will be required. Prerequisite, two semesters of Music Theory. Fall.

2611. Keyboard Skills 3  PERFORMANCE COURSES GROUP INSTRUCTION. For non pianist Music Majors. To develop piano sight reading and repertoire, and to enhance corresponding courses, Music Theory III and Aural Theory III. Prerequisites, MUS 1611 and MUS 1621 or permission of instructor. Non music majors admitted with permission of instructor. Special course fees may apply. Fall, Spring, Summer.

2621. Keyboard Skills 4  PERFORMANCE COURSES GROUP INSTRUCTION. For non pianist Music Majors. To develop piano sight reading, repertoire, and to enhance corresponding courses, Music Theory IV and Aural Theory IV. Prerequisites, MUS 1611 and MUS 1621 or permission of instructor. Non music majors admitted with permission of instructor. Special course fees may apply. Fall, Spring, Summer.

3211. Diction for Singers I  PERFORMANCE COURSES GROUP INSTRUCTION. Fundamentals of proper pronunciation of German, French, and Italian using the International Phonetic Alphabet. Two laboratory periods per week. Permission of instructor required. Special course fees may apply. Fall.

3221. Diction for Singers II  PERFORMANCE COURSES GROUP INSTRUCTION. Continuation of Diction I. Two laboratory periods per week. Prerequisite, MUS 3211 or permission of instructor. Special course fees may apply. Fall.

3231. Flute and Saxophone Techniques  PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Fall, odd.

3252. Clarinet Techniques  PERFORMANCE COURSES GROUP INSTRUCTION. Intensive study of conducting techniques and the problems in rehearsal and performance of choral literature of all styles, historical periods and special voicings. Special course fees may apply. Fall, Spring.

3251. Clarinet Techniques  PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Spring.

3252. Choral Conducting  PERFORMANCE COURSES GROUP INSTRUCTION. Intensive study of conducting techniques and the problems in rehearsal and performance of choral literature of all styles, historical periods and special voicings. Special course fees may apply. Spring.

3251. Clarinet Techniques  PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Spring.

3257. Horn and Low Brass Techniques  PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Spring.

3281. Percussion Instrument Techniques  PERFORMANCE COURSES GROUP INSTRUCTION. Non music majors admitted with permission of instructor. Special course fees may apply. Fall.

3291. Wind Ensemble  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Membership is open to all university students by audition on specified prepared materials and sight reading during the first week of the fall semester. Rehearsals are held MWF from noon until 1:00 p.m. The wind ensemble usually performs two scheduled concerts, with possible tours. Special course fees may apply. Fall, Spring.

3231. Symphonic Band  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. 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. Special course fees may apply. Fall, Spring.

3231. Symphonic Band  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. 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. Special course fees may apply. Fall, Spring.
3340. Marching Band  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. 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 MTWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

3341. Marching Band  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. 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 MTWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

3350. Concert Choir  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

3351. Concert Choir  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

3360. University Singers  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

3361. University Singers  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

3370. Small Ensemble  SMALL ENSEMBLES. Non credit course. Vocal, woodwind, brass, handbell, guitar, and percussion performance ensembles. Periodic tours. Prerequisite: Permission of instructor. May be repeated for credit. Fall, Spring.

3371. Small Ensemble  SMALL ENSEMBLES. Vocal, woodwind, brass, handbell, guitar, and percussion performance ensembles. Periodic tours. Prerequisite: Permission of instructor. May be repeated for credit. Fall, Spring.

3380. Jazz Ensemble  SMALL ENSEMBLES. Non credit course. 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. Fall, Spring.

3381. Jazz Ensemble  SMALL ENSEMBLES. 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. Fall, Spring.

3391. Laboratory Band  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. A large ensemble which allows participation by music majors on secondary instruments. Emphasis on easy to medium grade band literature as it applies to high school performance. Provides conducting experience for students enrolled in conducting classes. Special course fees may apply. May be repeated for credit. Spring.

3422. Elementary Orchestration and Choral Arranging  BASIC MUSIC THEORY. Acoustical and expressive uses of orchestral instruments and voices. Prerequisites: C or better in MUS 2413 and MUS 2411. Spring.

3471. Opera Production  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. A course in the study and performance of selected opera literature. Permission of instructor required. Special course fees may apply. May be repeated for credit. Fall.

3480. Orchestra  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. 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. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

3481. Orchestra  LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. 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. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

3523. Song Literature  BASIC MUSIC HISTORY AND LITERATURE. Baroque, Classical, Romantic, and Twentieth-century song literature with special emphasis on style and level of difficulty. Prerequisite, Two semesters of theory or permission of instructor. Demand.

3533. Piano Literature  BASIC MUSIC HISTORY AND LITERATURE. Baroque, Classical, Romantic, and twentieth century piano music with special attention to style and level of difficulty. Prerequisite, Two semesters of theory or permission of instructor. Demand.

3633. History of Western Music II  BASIC MUSIC HISTORY AND LITERATURE. A study of the evolution of musical style from the Classical era through the present. Both score analysis and listening analysis will be required. Prerequisites, Two semesters of Music Theory and History of Western Music I. Spring.

416V. Special Problems in Music  BASIC MUSIC HISTORY AND LITERATURE. Independent study of approved topics for juniors and senior arranged in consultation with a professor. Department approval required. Prerequisite, Two semesters of theory or permission of instructor. Fall, Spring, Summer.

4412. Form and Analysis  BASIC MUSIC THEORY. Analysis of basic and larger forms of music. Demand.

4422. Composition in the Electronic Media  BASIC MUSIC THEORY. Original composition to include the writing of small musical forms. Emphasis on instruction in composition using synthesizers, samplers, and computers. Prerequisite: C or better in MUS 3422. Fall.

4433. Improvisation of Jazz and Popular Music  BASIC MUSIC THEORY. Fundamental techniques of improvising with emphasis on melodic and rhythm principles. Demand.

4512. Church Music  BASIC MUSIC HISTORY AND LITERATURE. 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. Prerequisite, Two semesters of theory or permission of instructor. Demand.

4543. History of Jazz  BASIC MUSIC HISTORY AND LITERATURE. Study of Jazz from its beginning to the present. No prerequisite. Open to nonmusic majors. Demand.

4642. Piano Pedagogy  PERFORMANCE COURSES GROUP INSTRUCTION. Methods and materials of teaching piano. Prerequisite, permission of instructor. Demand.

Performance—Applied Music (MUSP) 1100. Recital Attendance  All music majors are required to attend a specified number of campus concerts and recitals. Fall, Spring.
1111. **Performance Applied Music** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1112. **Performance Applied Music** Two hours of credit. Two half hour lessons, or one 1 hour lesson per week. Ten hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1113. **Performance Applied Music** Three hours of credit. Two half hour lessons, or one 1 hour lesson per week. Fifteen hours practice required. Available only to Bachelor of Music degree candidates. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1221. **Elementary Piano II** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1311. **Performance Applied Music** One hour credit. One half hour lesson per week. Fifteen hours practice required. Available only to Bachelor of Music degree candidates. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1221. **Guitar Class I** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1241. **Guitar Class II** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1211. **Performance Applied Music** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1212. **Performance Applied Music** Two hours of credit. Two half hour lessons, or one 1 hour lesson per week. Ten hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1213. **Performance Applied Music** Three hours of credit. Two half hour lessons, or one 1 hour lesson per week. Fifteen hours practice required. Available only to Bachelor of Music degree candidates. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1221. **Intermediate Piano I** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1222. **Intermediate Piano II** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

1111. **Performance Applied Music** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

3111. **Performance Applied Music** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

3112. **Performance Applied Music** Two hours of credit. Two half hour lessons, or one 1 hour lesson per week. Ten hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

3113. **Performance Applied Music** Three hours of credit. Two half hour lessons, or one 1 hour lesson per week. Fifteen hours practice required. Available only to Bachelor of Music degree candidates. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

3130. **Junior Recital** One half. Student will perform a program equivalent to at least one half of a full solo recital. Fall, Spring.

3211. **Diction for Singers I** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

3221. **Diction for Singers II** One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

4131. **Senior Recital** Student will perform a full length solo performance. Fall, Spring.

4141. **Piano Chamber Music** For advanced pianists. Experience with two-piano literature. One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Demand.

4151. **Collaborative Piano** For advanced pianists. Permission of instructor required. May be repeated for credit. One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Demand.

4161. **Pedagogy and Performance** The study of the literature and pedagogical techniques as related to performance. One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Prerequisite, MUS 3123 or permission of the instructor. May be repeated for credit. Fall, Spring, Summer.
DEPARTMENT OF THEATRE

Theatre (THEA)

1203. Introduction to Theatre  Incorporation of vocal techniques in acting styles, emphasis on vocal flexibility. May be repeated with faculty consent. Fall.

1213. Beginning Acting  Basic theories and techniques of the art of acting. May be repeated once, depending on progress. Fall, Spring.

1223. Principles of Stage Design  An exploration of the basic elements of design that are used to create the visual theatrical environment. Spring, odd.

2203. Voice and Movement for Theatre I  Incorporation of vocal techniques in acting styles, emphasis on vocal flexibility. May be repeated with faculty consent. Prerequisite, THEA 2203. Spring, odd.

2213. Creative Improvisation  Examines the actor's physical, vocal, and psychological potential to create a clear and simple characterization without a written script. May be repeated depending on progress. Spring.


2233. Stage Makeup  Basic principles of applying stage makeup. Spring.

2243. Stage Costume Construction  Basic principles of stage costume construction. Fall.

2252. 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. Fall, even.

2253. Stage Management  Principles and practices of stage management. Spring, even.

2262. Tap Dancing  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. Spring, even.

2263. History of Costumes  An in depth study of the clothing styles of western civilization from 5 BC to the present. Fall, odd.

2272. 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. Spring, odd.

2282. 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. Fall, odd.

2503. Fine Arts-Theatre  Provides student with an appreciation of how various artistic elements combine to produce theatrical productions. Fall, Spring, Summer.

3203. Motion Picture Appreciation  Movies as a work of art and a form of persuasion. Fall, Spring.

3213. Audition Techniques  Preparation and execution of audition material. May be repeated with faculty consent. Prerequisite, THEA 1213. Fall.

3223. Studies in Dramatic Literature  A reading introduction to plays and playwrights spanning from Greek to contemporary works. Fall, even.

3233. Play Analysis  How playwrights achieved characterization, structure, and plot. Spring, even.

3243. Stage Combat  Movement and combat techniques for the stage. May be repeated with consent of faculty. Prerequisite, THEA 2213. Spring, even.

3252. Theatre Laboratory  Work on productions. Required of all Theatre Arts majors during every semester, except freshman semesters. Fall, Spring.

3263. Acting Shakespeare  A thorough investigation of the acting techniques specific to performing Shakespeare through scene and monologue work. Prerequisite, THEA 1213. Spring, odd.

3273. 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. Spring, odd.

4023. Stage Directing I  Directing techniques for theatrical productions. Prerequisite, THEA 2213 or consent of instructor. Fall.

4213. Acting on Camera  Developing skills for performance in front of and for the television and film camera. Spring, odd.

4223. Scene Design  Principles of theatrical design. Prerequisite, THEA 2223 of consent of instructor. Spring, odd.

4233. Advanced Makeup Design  Hair styling and makeup design. Prerequisite, THEA 2233 or consent of instructor. Fall, even.

4243. Stage Costume Design  The exploration of the history and design of costumes through a variety of projects. Prerequisite, THEA 1223 or consent of instructor. Spring, even.

4253. Theatre Management  Study of the fundamentals of financial, promotional and regulatory procedures governing theatre management. Spring, odd.

4263. History of Theatre I  From the Greek Period to the Renaissance Period. Fall, odd.

4273. History of Theatre II  From the Renaissance Period to the Modern Period. Spring, even.

4283. Period Styles in Acting  Study of form, structure, and techniques for period acting styles. May be repeated. Prerequisite, THEA 4333. Fall, odd.

4303. Stage Lighting  Principles and practices of stage lighting and sound. Prerequisite, THEA 2223 or consent of instructor. Fall, even.
4313. Fundamentals of Playwriting Writing plays, including readings, exercises, and adaptation. Prerequisite, THEA 1203 or consent of instructor. Fall, even.

4323. Stage Directing II Advanced scene work considering specifics such as rhythm, mood, conceptualizing and play style. Prerequisite, THEA 4203. Spring, odd.

4333. Advanced Acting Further studies in style, technique, and characterization. May be repeated once. Prerequisite, THEA 3263. Fall, even.

4343. 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. Spring, even.

4353. Children’s Theatre Presentation of plays for child audiences. Summer.

436V. Internship in Theatre Combines relevant work experience with classroom theory. Demand.

437V. Special Problem: Varying Topics Prerequisite, permission of the instructor. May be repeated twice with different topics. Demand.

4383. Senior Project A capstone course designed to showcase the graduating seniors achievements and accomplishments. Fall, Spring.

4413. Sound Design and Production for the Theatre Principles and practices of stage sound design and production. Prerequisite, THEA 1203 or consent of instructor. Spring, even.
**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 and 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, History, French, Spanish, and Political Science and a Bachelor of Science in Education in English, Social Science, French, and Spanish. The newest degree program in the College is a Bachelor of Science in Forensic Sciences offered in conjunction with The College of Sciences and Mathematics. Most degree programs offer minors. Minors are also available in the following fields: African-American Studies, Cognitive Science, Family Studies, Folklore Studies, German, International Studies, Medieval Studies, Modern European Studies, Religious Studies, and Women and Gender Studies. A minor in Homeland Security and Disaster Preparedness is offered in partnership with the College of Nursing and Health Professions. 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, History, and Criminology majors.

The College of Humanities and Social Sciences grants a full range of masters' degree programs including a Bachelor of Arts in Criminology, Sociology, Geography, English, History, French, Spanish, and Political Science and a Bachelor of Science in Education in English, Social Science, French, and Spanish. The newest degree program in the College is a Bachelor of Science in Forensic Sciences offered in conjunction with The College of Sciences and Mathematics. Most degree programs offer minors. Minors are also available in the following fields: African-American Studies, Cognitive Science, Family Studies, Folklore Studies, German, International Studies, Medieval Studies, Modern European Studies, Religious Studies, and Women and Gender Studies. A minor in Homeland Security and Disaster Preparedness is offered in partnership with the College of Nursing and Health Professions. 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, History, 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

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**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 ... 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.

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**Department of Criminology, Sociology, and Geography**

CRIMINOLOGY: Associate Professor and Director of Criminology Program: Russell; Associate Professor Salinger; Assistant Professors Chu, Lemley; SOCIOLOGY: Associate Professor Hill; Assistant Professors Donaghy, Wienke; Assistant Professor Williams; ANTHROPOLOGY: Professor Clements; Associate Professor Burns; Assistant Professor Morrow; GEOGRAPHY: Professor Stroud; Assistant Professor Combs; Instructor Wright

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

Language Requirement:
Sem. Hrs.
Refer to index for foreign language requirements .......................................................... 0-12

Major Requirements:
Sem. Hrs.
CRIM 1023, Introduction to Criminal Justice (Prerequisite for CRIM 4103) .......................... 3
CRIM 3103, Institutional Corrections; OR CRIM 3193, Community Corrections .................. 3
CRIM 3233, Police and Society ................................................................. 3
CRIM 3263, Criminology ........................................................................ 3
CRIM 4103, Criminal Justice Systems ...................................................... 3
SOC 3363, Social Behavior ................................................................. 3
SOC 3383, Social Statistical Methods Lab AND SOC 3383, Social Statistical Methods .... 4
SOC 4293, Methods of Social Research .................................................. 3
Electives (choose 21 hours from the following) ............................................. 21
CRIM 4043, Community Relations
CRIM 4223, Criminal Investigation
CRIM 4323, Juvenile Delinquency
CRIM 4703, Internship
HIST 3683, History of Law Enforcement
POSC 3113, American Municipal Government
POSC 3143, State and Local Government
PSY 3413, Adolescent Psychology
PSY 4533, Psychology of the Abnormal
SOC 2223, Social Problems
SOC 2373, Social Stratification
SOC 3363, Minority Groups
SOC 3813, Intro GIS for Social Sciences
SOC 4203, Social Deviance
SOC 4223, Urban Sociology
SOC 4233, Social Organization
SOC 4243, Social Theory
SOC 4253, Rural Sociology
SOC 4273, Population and Demography
SOC 4323, Applied Research
SW 3323, SubSTANCE Abuse; Intervention and Treatment
SW 3343, Child Abuse and Neglect

Electives: Sem. Hrs.
Choose 20 hours minimum, 12 of which must be taken from 3000 and/or 4000 level courses. .......... 14-29
Total 124

Major in Geography
Bachelor of Arts

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

Language Requirement:
Sem. Hrs.
Foreign Language (Refer to index for foreign language requirements) .................................................. 0-12

Major Requirements:
Sem. Hrs.
SOC 3361, Social Statistics Laboratory ........................................... 1
SOC 3363, Social Statistics ................................................................. 3
GEOG 2913, Introduction to Geography .................................................. 3
GEOG 3063, World Regional Geography .................................................. 3
GEOG 3063, Introduction to Cultural Geography ........................................... 3
GEOG 3723, Introduction to Physical Geography ........................................... 3
GEOG 3813, Introduction to Geographic Information Systems ................. 3
GEOG 4683, Senior Seminar ................................................................. 3
Major electives (choose 21 hours from the list below with a minimum of 12 hours in geography) .......... 21
GEOG 4683 Geography of the United States and Canada
GEOG 3683 Geography of Arkansas
GEOG 4683 Economic Geography
GEOG 3743 Introduction to Urban Planning
GEOG 3703 Political Geography
GEOG 4113 Water Resources Planning
GEOG 4223 Urban Geography
GEOG 4313 Advanced Perspectives in Historical Geography
GEOG 4613 Conservation of Natural Resources
GEOG 4623 Environmental Management
GEOG 4633 Climatology
GEOG 4643 Geography of Arkansas
GEOG 4703V Internship in Geography
GEOG 4813 Special Topics in Geography
HIST 3323 United States Environmental History
POSC 3513 Public Budgeting Process
POSC 4533 Environmental Law and Administration
POSC 4503 Introduction to Public Policy Studies
SOC 3433 Environmental Sociology
SOC 4373 Sustainable Development in Modern Society

Free Electives: Sem. Hrs.
20-35
Total 124

Major in Forensic Science
Bachelor of Science

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

NOTE: All Forensic Science majors are required to complete the following General Education Courses
BIOL 1011, Biology of the Cell Laboratory AND BIOL 1013, Biology of the Cell ......................... 4
CHEM 1011, General Chemistry Laboratory AND CHEM 1013, General Chemistry .............. 4
MATH 2204, Calculus I ............................................................................... 4
PSY 2103, Intro to Psychology ........................................................................ 3
SCOM 1203, Speech Communication ........................................................................ 3
SOC 2213, Intro to Sociology ........................................................................ 3

Free Electives: Sem. Hrs.
20-35
Total 124
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:

**Sem. Hrs.**

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 1503, Microcomputer Applications OR COS 1043, Introduction to Computers</td>
</tr>
<tr>
<td>ENG 1003, Composition I</td>
</tr>
<tr>
<td>ENG 1013, Composition II</td>
</tr>
<tr>
<td>MATH 1023, College Algebra</td>
</tr>
</tbody>
</table>

Select 18 hours from the following general education courses:

- ANTH 2233, Cultural Anthropology
- OR Soc 2213, Principles of Sociology
- BIOL 1003, Biological Sciences OR ZOOL 2003, Human Anatomy and Physiology I (labs not required)
- CRIM 1023, Introduction to Criminal Justice
- ECON 2333, Economic Issues and Concepts OR ECON 2313, Principles of Macroeconomics
- 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)
- PSY 2013, Introduction to Psychology
- SCOM 1203, Oral Communication
- SPAN 1013, Elementary Spanish I

**Sem. Hrs.**

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2013, Introduction to Psychology</td>
</tr>
<tr>
<td>SCOM 1203, Oral Communication</td>
</tr>
<tr>
<td>SPAN 1013, Elementary Spanish I</td>
</tr>
</tbody>
</table>

**Total Program Requirement**

65-66 hrs.

**Crime Scene Investigation Coursework**

- 35-36 hrs.

**Law Enforcement Administration Coursework**

- 30 hrs.

**Total Program Requirement**

69 hrs.

### General Education Requirements:

- BIOL 1003, Biological Sciences OR ZOOL 2003, Human Anatomy and Physiology I (labs not required) | 3 |
- CIT 1503, Microcomputer Applications OR COS 1043, Introduction to Computers | 3 |
- CRIM 1023, Introduction to Criminal Justice | 3 |
- ECON 2333, Economic Issues and Concepts OR ECON 2313, Principles of Macroeconomics | 3 |
- ENG 1003, Composition I | 3 |
- ENG 1013, Composition II | 3 |
- MATH 1023, College Algebra | 3 |
- POSC 2103, Introduction to US Government | 3 |
- SCOM 1203, Oral Communication | 3 |
- SOC 2213, Principles of Sociology | 3 |

**Total Program Requirement**

124 hrs.

### Major in Sociology

**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 foreign language requirements) | 0-12 |

**Major Requirements:**

- SOC 2213, Principles of Sociology | 3 |
- SOC 2223, Social Problems | 3 |
- SOC 3381, Social Statistics Lab AND SOC 3383, Social Statistics | 4 |
- SOC 4243, Social Theory | 3 |
- SOC 4293, Methods of Social Research | 3 |
- SDC 4333, Applied Research | 3 |
- Political Science Elective | 3 |
- Psychology Elective | 3 |
- Sociology Elective | 15 |

**Total**

124 hrs.

### Electives:

- Sem. Hrs. | 28-48 |

**Total Program Requirement**

124 hrs.
Minor in Criminology

Sem. Hrs.

Take the following six (6) courses: ................................................... 18
CRIM 1023, Introduction to Criminal Justice
CRIM 2263, Criminal Evidence and Procedure; OR POSC 3183, Criminal Law and the Constitution
CRIM 3183, Institutional Corrections; OR CRIM 3193, Community Corrections
CRIM 3263, Criminology; OR CRIM 3323, Juvenile Delinquency
CRIM 4103, Criminal Justice Systems

Total 18

This option allows students the opportunity to explore specific areas of interest.

* Special Interest Option: (3 hours required) .......................................................... 3
CRIM 1023, Introduction to Criminal Justice
CRIM 2263, Criminal Evidence and Procedure; OR POSC 3183, Criminal Law and the Constitution
CRIM 3183, Institutional Corrections; OR CRIM 3193, Community Corrections
CRIM 3263, Criminology; OR CRIM 3323, Juvenile Delinquency
CRIM 4103, Criminal Justice Systems

Minor in Geography

Sem. Hrs.

Electives in Geography ................................................................. 3
Upper-level Electives in Geography ................................................. 15

Total 18

Minor in Sociology

Sem. Hrs.

Electives in Sociology (in addition to POSC 2213, Principles of Sociology) .............................................. 6
Upper-level Electives in Sociology .................................................. 12

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, Lamm, Moore, Narey; Assistant Professors Gennuso, Hansen, Horner, Hunter, Spaniol, T. Williams; Instructors Bridges, Cogged, Duclos, Patton, C. Williams, G. Williams, Young; PHILOSOPHY: Associate Professors Cave, Sartorelli; Assistant Professors J. Schroer, R. 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.

Minor in Homeland Security and Disaster Preparedness

The minor in Homeland Security and Disaster Preparedness is a multidisciplinary program offered in the College of Nursing and Health Professions and the College of Humanities and Social Sciences. The structure of the minor provides specialized training within each of three tracks. The introductory and capstone course provide the common framework necessary for the integration of these fields and the cooperative efforts of the specialists working within them.

Sem. Hrs.

Track 1: Healthcare in Homeland Security and Emergency Preparedness .................................................. 3
POSC 4553, Capstone in Homeland Security and Disaster Preparedness .................................................. 3
Choice of three (3) courses from within a single track ................................................................. 9
NRS 4503, Principles of Disaster and Emergency Preparedness .................................................. 3
POSC 4513, Disaster Response -- Operations and Management .................................................. 3
SW 4203, Crisis Intervention .......................................................... 3

Total 18

Track 2: Managing Disaster and Crisis

POSC 4133, Intergovernmental Relations -- Federalism in an Era of Insecurity .................................................. 3
POSC 4513, Disaster Response -- Operations and Management .................................................. 3
PR 4603, Crisis Communication .......................................................... 3
SOC 4343, GIS for Social Sciences .......................................................... 3

Total 15

Choice of one (1) course from one of the other two tracks .......................................................... 3

Total 18

Minor in Interdisciplinary Family Studies

FAMILY CORE

Interdisciplinary Course: * (3 hours required) .......................................................... 3
(Students should complete a minimum of twelve hours in the minor before registering for the Interdisciplinary course)
NRS 4503 or ECH 4053
PSY 3403

SOC 4053, Principles of Family Social Science .......................................................... 3
SOC 3323, Sociology of Marriage and Family .......................................................... 3
SOC 3213, Sociology of Intimate Relationships .......................................................... 3

Human Development: (3 hours required) .......................................................... 3
PSY 3403, Child Psychology
PSY 3413, Adolescent Psychology

POSC 3183, Criminal Law and the Constitution
CRIM 3183, Institutional Corrections; OR CRIM 3193, Community Corrections
CRIM 3263, Criminology; OR CRIM 3323, Juvenile Delinquency
CRIM 4103, Criminal Justice Systems

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 2203, Basic Human Nutrition
NRS 3353, Aging and the Older Adult

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.

* The Interdisciplinary Course may only be completed once for credit, regardless of prefix.

Total 18
Major in English
Bachelor of Arts

General Education Requirements:

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

Language Requirement:

Refer to index for foreign language requirements ................................................................. 0-12

Major Requirements:

ENG 2103, Introduction to Poetry and Drama ................................................................. 3
ENG 2113, Introduction to Fiction .......................................................................................... 3
British Literature (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): ................................................................. 9
ENG 3223, British Literature to 1800 ................................................................................. 3
ENG 3233, Shakespeare .................................................................................................. 3
ENG 3243, British Drama to 1800 .................................................................................... 3
ENG 3263, British Literature Since 1800 ........................................................................ 3
ENG 3293, British Novels ................................................................................................. 3
ENG 4183, Renaissance Drama Excluding Shakespeare .......... ................................. 3
ENG 4213, Medieval Literature ...................................................................................... 3
ENG 4223, Milton ................................................................. 3
ENG 4233, Sixteenth-Century Literature ...................................................................... 3
ENG 4243, Seventeenth-Century Literature .................................................................. 3
ENG 4253, Restoration and Neoclassical Literature ...................................................... 3
ENG 4263, Romantic Literature ..................................................................................... 3
ENG 4273, Victorian Literature ...................................................................................... 3
ENG 4283, Modern British Literature ............................................................................ 3
American Literature (Two courses from the following): ............................................... 6
ENG 3223, American Literature to 1865 ...................................................................... 3
ENG 3363, American Literature Since 1865 ................................................................. 3
ENG 3373, Regional American Literature .................................................................... 3
ENG 3393, American Novel ......................................................................................... 3
ENG 4333, American Romanticism ............................................................................. 3
ENG 4353, American Realism and Naturalism .............................................................. 3
ENG 4373, Modern American Literature ..................................................................... 3
Multicultural Literature (One course from the following): ........................................ 3
ENG 3633, Native American Verbal Art ....................................................................... 3
ENG 3643, African-American Folklore ........................................................................ 3
ENG 4363, Minority Literature ...................................................................................... 3
ENG 4363, African-American Literature ..................................................................... 3
ENG 4473, Women Writers .......................................................................................... 3
Global Literature (One course from the following): ..................................................... 3
ENG 3423, Contemporary Prose .................................................................................. 3
ENG 3433, Modern and Contemporary Drama ............................................................. 3
ENG 3443, Contemporary Poetry .................................................................................. 3
ENG 3453, World Literature ........................................................................................ 3
Theory, Writing, and Language .................................................................................... 6
ENG 4103, Introduction to Contemporary Literary Theory ........................................ 3

And one course from the following: ............................................................................ 3
ENG 3003, Advanced Composition ............................................................................. 3
ENG 3053, Creative Writing ......................................................................................... 3
ENG 3043, Technical Writing ....................................................................................... 3
ENG 3913, Introduction to Folklore ............................................................................. 3
ENG 4023, Advanced Creative Writing .................................................................... 3
ENG 4053, The English Language ............................................................................. 3
ENG 4063, Comparative Modern Grammars ............................................................. 3
ENG 4083, Introduction to Linguistics ........................................................................ 3
ENG 4113, Genre Studies ........................................................................................... 3
ENG 4323, Mythology ................................................................................................. 3

Optional Concentration in Writing ............................................................................... 9

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 other upper-level writing courses chosen from the following:
ENG 3003, Advanced Composition ............................................................................. 3
ENG 3053, Creative Writing ......................................................................................... 3
ENG 3043, Technical Writing ....................................................................................... 3
ENG 4023, Advanced Creative Writing .................................................................... 3
ENG 4053, The English Language ............................................................................. 3
ENG 4063, Comparative Modern Grammars ............................................................. 3
ENG 4083, Introduction to Linguistics ........................................................................ 3
ENG 4113, Genre Studies ........................................................................................... 3
ENG 4323, Mythology ................................................................................................. 3

Electives: ......................................................................................................................... 27-42

Total 124

Major in Philosophy
Bachelor of Arts

General Education Requirements:

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

Language Requirement:

Refer to index for foreign language requirements ................................................................. 0-12

Major Requirements:

PHIL 1103, Introduction to Philosophy ........................................................................ 3
PHIL 1503, Logic and Practical Reasoning ................................................................. 3
PHIL 3213, History of Ancient and Medieval Philosophy ........................................ 3
PHIL 3223, History of Modern Philosophy ................................................................ 3
Epistemology/Metaphysics—one of the following courses: ......................................... 3
PHIL 3403, Theory of Knowledge .............................................................................. 3
PHIL 3423, Philosophy of Science .............................................................................. 3
PHIL 4403, Metaphysics ............................................................................................ 3
Ethics/Value Theory—one of the following courses: ................................................ 3
PHIL 3713, Ethics in the Health Professions ................................................................ 3
PHIL 3723, Computers, Ethics, and Society .............................................................. 3
PHIL 4703, Contemporary Ethics .............................................................................. 3
PHIL 4723, Aesthetics .................................................................................................. 3
Upper-level Philosophy Electives .................................................................................. 12

Electives: ......................................................................................................................... 30

Total 124

Major in English
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:
HIST 2763, The U.S. To 1876: OR HIST 2773, The U.S. Since 1876........ 3
POSC 2103, Introduction to United States Government .............................................. 3
PSY 2013, Introduction to Psychology ........................................................................ 3

Major Requirements:

American literature ........................................................................................................... 6
ENG 2103, Introduction to Poetry and Drama ................................................................. 3
ENG 2113, Introduction to Fiction .................................................................................. 3
ENG 3003, Advanced Composition ............................................................................. 3

British literature ............................................................................................................. 3
ENG 3223, British Literature to 1800 ........................................................................... 3
ENG 3233, Shakespeare ................................................................................................. 3
ENG 3263, British Literature Since 1800 ..................................................................... 3

Multicultural literature .................................................................................................. 3
ENG 3633, Native American Verbal Art ....................................................................... 3
ENG 3643, African-American Folklore ........................................................................ 3
ENG 4363, Minority Literature ...................................................................................... 3
ENG 4363, African-American Literature ..................................................................... 3

Global literature ............................................................................................................ 3
ENG 3423, Contemporary Prose .................................................................................. 3
ENG 3433, Modern and Contemporary Drama ............................................................. 3
ENG 3443, Contemporary Poetry .................................................................................. 3
ENG 3453, World Literature ........................................................................................ 3

Theory, Writing, and Language .................................................................................... 6
ENG 4103, Introduction to Contemporary Literary Theory ........................................ 3

And one course from the following: ............................................................................ 3
ENG 3003, Advanced Composition ............................................................................. 3
ENG 3053, Creative Writing ......................................................................................... 3
ENG 3043, Technical Writing ....................................................................................... 3
ENG 3913, Introduction to Folklore ............................................................................. 3
ENG 4023, Advanced Creative Writing .................................................................... 3
ENG 4053, The English Language ............................................................................. 3
ENG 4063, Comparative Modern Grammars ............................................................. 3
ENG 4083, Introduction to Linguistics ........................................................................ 3
ENG 4113, Genre Studies ........................................................................................... 3
ENG 4323, Mythology ................................................................................................. 3

Optional Concentration in Writing ............................................................................... 9

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 other upper-level writing courses chosen from the following:
ENG 3003, Advanced Composition ............................................................................. 3
ENG 3053, Creative Writing ......................................................................................... 3
ENG 3043, Technical Writing ....................................................................................... 3
ENG 4023, Advanced Creative Writing .................................................................... 3
ENG 4053, The English Language ............................................................................. 3
ENG 4063, Comparative Modern Grammars ............................................................. 3
ENG 4083, Introduction to Linguistics ........................................................................ 3
ENG 4113, Genre Studies ........................................................................................... 3
ENG 4323, Mythology ................................................................................................. 3

Electives: ......................................................................................................................... 39

Total 124

Major in Philosophy
Bachelor of Arts

Professional Education Requirements:*

** EDEN 4563, Methods and Materials for Teaching English in the Secondary School ............................................................................................................................. 3
** PSY 3703, Educational Psychology ........................................................................ 3
** SCED 2514, Introduction to Secondary Education .................................................. 3
** SCED 3515, Performance Based Instructional Design ............................................. 5
** SCED 4713, Educational Measurement with Computer Applications .................. 3
** SE 3643, The Exceptional Student in the Regular Classroom .................................. 3
** TIEN 4826, Teaching Internship in the Secondary School .................................... 12

* See Bachelor of Science in Education degree—College of Education

** Prerequisites: Admission into the Teacher Education Program

NOTE 1: B.S.E. English majors seeking admission to the Teacher Education Program will be required to demonstrate writing competency at the time of their screening.

NOTE 2: One of the literature courses should be either multicultural in nature or have a strong multicultural component.
Additional General Requirements for Teacher Education:  

Sem. Hrs.  
HLTH 2513, Principles of Personal Health ................................................................. 3  

Electives:  

Sem. Hrs.  
0-3  

Total 124

Minor in Cognitive Science  

Completion of the minor will require eighteen (18) hours in courses related to cognition, learning, development and the mind -- at least nine (9) of which must be upper-level courses, and no more than six (6) of which are in the student's major. 

Core Curriculum:  

Sem. Hrs.  
COGS 2403, Introduction to Cognitive Science ................................................................. 3  

Additional fifteen (15) hours from the courses listed below. ........................................... 15  

BIOL 3413, Evolution  
BIOL 4133, Cell Biology AND BIOL 4113, Cell Biology Laboratory  
EDH 4003, Learning and Development of Young Children  
PHIL 4403, Metaphysics  
PHIL 4443, Philosophy of Mind  
PSYC 4003, Political Psychology  
PSY 3303, Child Psychology  
PSY 3413, Adolescent Psychology  
PSY 3453, Developmental Psychology  
PSY 4323, Physiological Psychology  
PSY 4403, Cognitive Psychology  
SOC 3203, Social Behavior  
SOC 4213, Sociology of Childhood and Adolescence  
ZOO 3201, Animal Physiology Laboratory AND ZOO 3203, Animal Physiology 

Total 18

Minor in English  

Sem. Hrs.  
ENG 2103, Introduction to Poetry and Drama ................................................................. 3  
ENG 2113, Introduction to Fiction ................................................................. 3  
English elective in American Literature ................................................................. 3  
Upper-level Electives in English ................................................................. 6  

Total 18

Minor in Folklore Studies  

Sem. Hrs.  
ENG 3613, Introduction to Folklore ................................................................. 3  
ENG 4643, Independent Fieldwork in Folklore ................................................................. 3  
Folklore Studies electives .................................................................................... 12  
ENG 3523, American Folklore  
ENG 3633, Native American Verbal Art  
ENG 3643, African-American Folklore  
ENG 4613, Ballad and Folk Song  
ENG 4623, Mythology  
ENG 4633, Material Folk Culture 

Total 18

Minor in Philosophy  

Sem. Hrs.  
PHIL 1103, Introduction to Philosophy ................................................................. 3  
PHIL 1503, Logic ................................................................. 3  
Upper-level Elective in History of Philosophy ................................................................. 3  
Upper-level Electives in Philosophy ................................................................. 9  

Total 18

Minor in Religious Studies  

Completion of the minor consists of eighteen (18) hours, including the core courses (3 hrs.) with the remaining fifteen (15) hours selected from the list below.  

Core Curriculum:  

Sem. Hrs.  
ENG 1643, The Impulse toward Religion ................................................................. 3  
Fifteen hours of the following courses with no more than 6 hours under any single prefix. ................................................................. 15  
ART 4553, Early Christian through Gothic Art History  
ENG 3483, The Bible as Literature  
ENG 4623, Mythology  
HNRS 3913 (Seminar) Love and Death  
HNRS 4213 (Seminar) The Western Religious Experience  
PHIL 3313, Philosophy of Religion  
PHIL 3623, Eastern Philosophy  
SOC 3363, Sociology of Religion  
SW 4363, Religion and Spirituality in Social Work Practice  

Total 18

Minor in Women and Gender Studies  

Completion of the minor will require eighteen (18) hours in women and gender-- at least nine (9) of which must be upper-level courses, and no more than six (6) of which are in the student's major.  

Core Curriculum:  

Sem. Hrs.  
PHIL 1773, Introduction to Women and Gender Studies ................................................................. 3  
Additional fifteen (15) hours from the courses listed below. ................................................................. 15  
ENG 4463 - PSYC 4003, Gender and Popular Culture  
ENG 4473, Women Writers  
HIST 3693, United States Women's History  
HIST 4473, U.S. Southern Women's History  
HIST 4583, History of Sexuality in America  
JOUR 4303, Race, Gender and Media  
NRS 3333, Women's Health: Past, Present, Future  
PHIL 3773, Topics in Feminist Thought  
SOC 3003, Sociology of Gender  
SOC 3213, Sociology of Intimate Relation 

Total 18

Department of History  

Associate Professor Pamela Hronek, Chair; Professors Anderson, Gilbert, Milner, O'Connor, Rousey, Sydorenko; Associate Professors Banta, Greenwald, Hogue, Hronek, Maynard, Pobst, Wilkerson-Freeman; Assistant Professors Edwards, 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:
- Foreign Language (Refer to index for foreign language requirements): 3-12 Sem. Hrs.

### Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1013</td>
<td>AND HIST 1023</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763</td>
<td>AND HIST 2773</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3333</td>
<td>The Practice of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4803</td>
<td>Senior History Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

*Elective History Courses (at least 9 hours must be at the Senior level)

European History electives (Junior or Senior level) 6

History electives (Junior or Senior level) 9

United States History electives (Junior or Senior level) 9

World History electives (Junior or Senior level) 6

**42-48 Electives:**
- Must include 12 hours at Junior/Senior level 15-36 Sem. Hrs.

NOTE: The Department of History recommends that its majors select a minor in a field approved by their academic advisor.

### TOTAL 124

### 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:
  - PSY 2013, Introduction to Psychology
  - PSY 2903, Educational Psychology 3

### Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3083</td>
<td>Arkansas History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3333</td>
<td>The Practice of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4312</td>
<td>Computer Technologies for the History/Social Studies Educator</td>
<td>2</td>
</tr>
<tr>
<td>POSC 3193</td>
<td>Arkansas Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>Economics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Geography</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Political Science (Junior/Senior Level)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>United States History (includes HIST 2763 and 2773 and 9 hours of Junior/Senior level courses)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>World History (Junior/Senior level)</td>
<td>6</td>
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</table>

At least 29 of the 47 hours required for the major must be upper-level courses 47 Sem. Hrs.

### Professional Education Requirements:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSS 4603</td>
<td>Methods and Materials for Teaching Social Studies in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>SCED 2514</td>
<td>Introduction to Secondary Teaching</td>
<td>4</td>
</tr>
<tr>
<td>SCED 4515</td>
<td>Performance Based Instructional Design</td>
<td>5</td>
</tr>
<tr>
<td>SCED 4713</td>
<td>Educational Measurement with Computer Applications</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>THI 4825</td>
<td>Teaching Internship in the Secondary School</td>
<td>12</td>
</tr>
</tbody>
</table>

**33 Additional Requirement for Teacher Education:**
- 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

### Minor in History

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3263</td>
<td>Medieval Literature</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3183</td>
<td>Medieval Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3190</td>
<td>The Crusades</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3213</td>
<td>History of Ancient and Medieval Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ART 5253</td>
<td>Renaissance Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 5553</td>
<td>Early Christian through Gothic Art History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4213</td>
<td>History of England, 55 B.C. to A.D. 1689</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4223</td>
<td>Renaissance and Reformations Europe</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3413</td>
<td>Classical and Medieval Political Theory</td>
<td>3</td>
</tr>
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</table>

Total 18

### Minor in African-American Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ENG 3263</td>
<td>African American Literature</td>
<td>9</td>
</tr>
<tr>
<td>ENG 4263</td>
<td>African American Literature Survey</td>
<td>6</td>
</tr>
<tr>
<td>ENG 4383</td>
<td>Minority Literature</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3163</td>
<td>Black Politics</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3213</td>
<td>African Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 4503</td>
<td>Intercultural Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18

### Minor in Medieval Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 4213</td>
<td>Medieval Literature</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3183</td>
<td>Medieval Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3190</td>
<td>The Crusades</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3213</td>
<td>History of Ancient and Medieval Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ART 4533</td>
<td>Renaissance Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 4553</td>
<td>Early Christian through Gothic Art History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4213</td>
<td>History of England, 55 B.C. to A.D. 1689</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4223</td>
<td>Renaissance and Reformations Europe</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3413</td>
<td>Classical and Medieval Political Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18

### Minor in Modern European Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>GEOG 3713</td>
<td>Geography of Europe and the Former USSR Lands</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3223</td>
<td>European Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>European History electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Three of the following courses:</td>
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<tr>
<td>HIST 3253</td>
<td>Modern Europe, 1570-1870</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3273</td>
<td>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 4123</td>
<td>Soviet Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4223</td>
<td>History of Great Britain 1688-1882</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4253</td>
<td>Rise of Modern Germany</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18

### Language Requirement:
- Foreign Language (Refer to index for foreign language requirements): 0-12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3083</td>
<td>Arkansas History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3333</td>
<td>The Practice of History</td>
<td>3</td>
</tr>
<tr>
<td>POSC 3193</td>
<td>Arkansas Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>Economics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Geography</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Political Science (Junior/Senior Level)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>United States History (includes HIST 2763 and 2773 and 9 hours of Junior/Senior level courses)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>World History (Junior/Senior level)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

At least 29 of the 47 hours required for the major must be upper-level courses 47 Sem. Hrs.

### Additional Requirement for Teacher Education:*
- 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.
**Department of Languages**

Professor Charles Carr, Chair; Professor Darwin; Associate Professors Baum, Johnson, Lombideia, Owens; Instructors Dominguez, Durst, 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 linguistic 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 ..........................................................46-49

<table>
<thead>
<tr>
<th>Major Requirements:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 3013, French Phonetics OR FR 4503, Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>FR 3183, French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FR 3203, Advanced French Conversation OR FR 3703, French for International Business</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 repeated FR 4503, Special Topics (when topic varies)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives:**

<table>
<thead>
<tr>
<th>Electives:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major in French</td>
<td>46-49</td>
</tr>
</tbody>
</table>

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### Major in Spanish

**Bachelor of Arts**

**General Education Requirements:**

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

<table>
<thead>
<tr>
<th>Major Requirements:</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</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3203, Spanish Conversation II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3303, Grammar and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4423, Contemporary Peninsular Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3623, Culture and Civilization: The Americas</td>
<td></td>
</tr>
<tr>
<td>SPAN 3633, Culture and Civilization: Spain</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4413, Survey of Peninsular Spanish Literature</td>
<td></td>
</tr>
<tr>
<td>SPAN 4423, Contemporary Peninsular Spanish Literature</td>
<td></td>
</tr>
<tr>
<td>Major Electives: Select two (2) from the following:</td>
<td>6</td>
</tr>
<tr>
<td>SPAN 3703, Spanish for International Business</td>
<td></td>
</tr>
<tr>
<td>SPAN 4503 Special Topics (may be repeated for credit if offered)</td>
<td></td>
</tr>
<tr>
<td>SPAN classes from either of the two &quot;Select one&quot; categories not already taken for degree credit</td>
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</table>

**Electives:**

<table>
<thead>
<tr>
<th>Electives:</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major in Spanish</td>
<td>42-45</td>
</tr>
</tbody>
</table>

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### Major in French

**Bachelor of Science in Education**

**General Education Requirements:**

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

<table>
<thead>
<tr>
<th>Specific General Education Requirements:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Students with this major must take the following:</td>
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</tr>
<tr>
<td>HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876</td>
<td></td>
</tr>
<tr>
<td>POSC 2103, Introduction to United States Government</td>
<td></td>
</tr>
<tr>
<td>PSY 2013, Introduction to Psychology</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major Requirements:</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>FR 3013, French Phonetics</td>
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</tr>
<tr>
<td>FR 3183, French Conversation</td>
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</tr>
<tr>
<td>FR 3203, Advanced French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>FR 3463, Advanced French Grammar</td>
<td>3</td>
</tr>
<tr>
<td>FR 3473, French Composition</td>
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<tr>
<td>FR 4503, Special Topics</td>
<td>3</td>
</tr>
<tr>
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**Electives:**

<table>
<thead>
<tr>
<th>Electives:</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Major in French</td>
<td>46-49</td>
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</tbody>
</table>

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### Major in Spanish

**Bachelor of Science in Education**

**General Education Requirements:**

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

<table>
<thead>
<tr>
<th>Specific General Education Requirements:</th>
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<td>HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876</td>
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<tr>
<td>POSC 2103, Introduction to United States Government</td>
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<td>PSY 2013, Introduction to Psychology</td>
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</table>

<table>
<thead>
<tr>
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<tbody>
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<td>SPAN 3013, Spanish Phonetics</td>
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<tr>
<td>SPAN 3183, Spanish Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3203, Spanish Conversation II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3303, Grammar and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3413, Introduction to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4423, Survey of Latin American Literature</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3623, Culture and Civilization: The Americas</td>
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<tr>
<td>SPAN 3633, Culture and Civilization: Spain</td>
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<td>Select one of the following:</td>
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</tr>
<tr>
<td>SPAN 4413, Survey of Peninsular Spanish Literature</td>
<td></td>
</tr>
<tr>
<td>SPAN 4423, Contemporary Peninsular Spanish Literature</td>
<td></td>
</tr>
<tr>
<td>Major Electives: Select two (2) from the following:</td>
<td>6</td>
</tr>
<tr>
<td>SPAN 3703, Spanish for International Business</td>
<td></td>
</tr>
<tr>
<td>SPAN 4503 Special Topics (may be repeated for credit if offered)</td>
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</tr>
<tr>
<td>SPAN classes from either of the two &quot;Select one&quot; categories not already taken for degree credit</td>
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**Electives:**

<table>
<thead>
<tr>
<th>Electives:</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Major in Spanish</td>
<td>42-45</td>
</tr>
</tbody>
</table>

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### 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>
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</thead>
<tbody>
<tr>
<td>ART 4303</td>
<td>Studies in Art History</td>
</tr>
<tr>
<td>ART 4553</td>
<td>Renaissance Art History</td>
</tr>
<tr>
<td>ART 4543</td>
<td>Modern Art History</td>
</tr>
<tr>
<td>ART 4554</td>
<td>Early Christian through Gothic Art History</td>
</tr>
<tr>
<td>ART 4562</td>
<td>Baroque and Rococo Art</td>
</tr>
<tr>
<td>ART 4563</td>
<td>Non-Western Art History</td>
</tr>
<tr>
<td>ECON 3343</td>
<td>Comparative Economic Systems</td>
</tr>
<tr>
<td>ECON 4314</td>
<td>International Trade</td>
</tr>
<tr>
<td>ENG 3423</td>
<td>Contemporary Prose</td>
</tr>
<tr>
<td>ENG 3433</td>
<td>Modern and Contemporary Drama</td>
</tr>
<tr>
<td>ENG 3443</td>
<td>Contemporary Poetry</td>
</tr>
<tr>
<td>ENG 3453</td>
<td>World Literature</td>
</tr>
<tr>
<td>ENG 3613</td>
<td>Introduction to Folklore</td>
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<tr>
<td>ENG 4113</td>
<td>Genre Studies</td>
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<tr>
<td>FIN/IB 3813</td>
<td>International Financial Mgmt and Banking</td>
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<tr>
<td>GEOG 3603</td>
<td>World Regional Geography</td>
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<tr>
<td>GEOG 3613</td>
<td>Introduction to Cultural Geography</td>
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<tr>
<td>GEOG 3703</td>
<td>Political Geography</td>
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<tr>
<td>GEQG 5013</td>
<td>Urban Geography</td>
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<tr>
<td>HIST 3013</td>
<td>Civilizations of Africa</td>
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<tr>
<td>HIST 3123</td>
<td>Latin America, The Colonial Period</td>
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<tr>
<td>HIST 3133</td>
<td>Latin America, The National Period</td>
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<tr>
<td>HIST 3223</td>
<td>Renaissance and Reformation Europe</td>
</tr>
<tr>
<td>HIST 3233</td>
<td>Age of Science and Reason</td>
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<tr>
<td>HIST 3253</td>
<td>Modern Europe, 1750-1870</td>
</tr>
<tr>
<td>HIST 3273</td>
<td>The Age of Crisis: Europe, 1870 to Present</td>
</tr>
<tr>
<td>HIST 3283</td>
<td>Society and Thought in Europe</td>
</tr>
<tr>
<td>HIST 3303</td>
<td>The Modern History of the Middle East</td>
</tr>
<tr>
<td>HIST 4113</td>
<td>Imperial Russia</td>
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<tr>
<td>HIST 4123</td>
<td>Soviet Russia</td>
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</tbody>
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### Major Electives:

Select two (2) from the following:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPAN 3703</td>
<td>Spanish for International Business</td>
</tr>
<tr>
<td>SPAN 4503</td>
<td>Special Topics (may be repeated for credit if offered)</td>
</tr>
</tbody>
</table>

**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.
Major in Political Science
Bachelor of Arts

General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees ......................................................... 48-49

Sem. Hrs.
NOTE: POSC 2103 will not be accepted to fulfill General Education Requirements in this major.

Language Requirement:
Refer to index for foreign language requirements ................................................................. 0-12

Sem. Hrs.

Major Requirements:
POSC 2103, Introduction to United States Government ................................................................. 3
POSC 3003, Introduction to Political Analysis ................................................................. 3
Political Science Electives (3000-4000) ................................................................. 36
(At least three semester hours in each of the following areas: American Politics, Comparative Politics, International Relations, Political Theory, and Public Administration. Concentration in one of these areas is expected.)

Sem. Hrs.

Electives:
........................................................................................................................................ 0-12

Sem. Hrs.

TOTAL 124

Minor in Homeland Security and Disaster Preparedness

The minor in Homeland Security and Disaster Preparedness is a multidisciplinary program offered in the College of Nursing and Health Professions and the College of Humanities and Social Sciences. The structure of the minor provides specialized training within each of three tracks. The introductory and capstone course provide the common framework necessary for the integration of these fields and the cooperative efforts of the specialists working within them.

Sem. Hrs.

NRS 4503, Principles of Disaster and Emergency Preparedness ........................................... 3
POSC 4953, Capstone in Homeland Security and Disaster Preparedness ........................................... 3

Choice of three (3) courses from within a single track ...

NRS 4513, Physical Care of Victims of Chemical, Biological, Radiological and Nuclear Disasters ........................................... 3
NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness ............... 3
NRS 4533, Evidence Based Practice -- Operations and Management ............... 3
SW 4203, Crisis Intervention ........................................................................ 3

Track 2: Managing Disaster and Crisis
POSC 4133, Intergovernmental Relations -- Federalism in an Era of Insecurity ....................... 3
POSC 4513, Disaster Response -- Operations and Management ............... 3
PR 4603, Crisis Communication ........................................................................ 3
SOCI 4343, GIS for Social Sciences ........................................................................ 3

Track 3: Social, Cultural & Political Factors
SOCI 3063, Sociology of Religion or SW 4363, Religion and Spirituality in Social Work Practice ........................................... 3
SOCI 4003, Perspectives on Death and Dying ........................................................................ 3
SOCI 4063, Sociology of Disasters ........................................................................ 3
SOCI 4263, Terrorism as a Social Movement ........................................................................ 3

Choice of one course from one of the other two tracks ........................................... 3

TOTAL 15

TOTAL 18

Minor in Political Science

Electives in Political Science
(exclusive of POSC 2103, Introduction to United States Government) ........................................... 4

Sem. Hrs.
Upper-level Electives in Political Science ........................................................................ 12

Minors in sub-fields (American Politics, Comparative Politics, International Relations, Political Theory, and Public Administration) may be granted if at least
12 hours of upper-level courses are completed in the appropriate sub-field.

TOTAL 18

DEPARTMENT OF CRIMINOLOGY, SOCIOLOGY, AND GEOGRAPHY

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.

Department of Political Science

Associate Professor Richard Wang, Chair; Professors Hartwig, Marlay; Associate Professors Harding, Reese, Stewart; Assistant Professors Levenbach, Lofton, McLean, Miller; Instructor Chamber

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Major in Political Science

Bachelor of Arts

General Education Requirements:
Refer to index for General Education Curriculum for Baccalaureate Degrees ......................................................... 48-49

NOTE: POSC 2103 will not be accepted to fulfill General Education Requirements in this major.

Language Requirement:
Refer to index for foreign language requirements ................................................................. 0-12

Sem. Hrs.

Major Requirements:
POSC 2103, Introduction to United States Government ................................................................. 3
POSC 3003, Introduction to Political Analysis ................................................................. 3
Political Science Electives (3000-4000) ................................................................. 36
(At least three semester hours in each of the following areas: American Politics, Comparative Politics, International Relations, Political Theory, and Public Administration. Concentration in one of these areas is expected.)

Sem. Hrs.

Electives:
........................................................................................................................................ 0-12

Sem. Hrs.

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NRS 4533, Evidence Based Practice -- Operations and Management ............... 3
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SOCI 4063, Sociology of Disasters ........................................................................ 3
SOCI 4263, Terrorism as a Social Movement ........................................................................ 3

Choice of one course from one of the other two tracks ........................................... 3

TOTAL 15

TOTAL 18

Minor in Political Science

Electives in Political Science
(exclusive of POSC 2103, Introduction to United States Government) ........................................... 4

Sem. Hrs.
Upper-level Electives in Political Science ........................................................................ 12

Minors in sub-fields (American Politics, Comparative Politics, International Relations, Political Theory, and Public Administration) may be granted if at least
12 hours of upper-level courses are completed in the appropriate sub-field.

TOTAL 18

DEPARTMENT OF CRIMINOLOGY, SOCIOLOGY, AND GEOGRAPHY

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.

Anthropology (ANTH)

2233. Introduction to Cultural Anthropology
Introduction to the concept of culture. Fall, Spring, Summer.

2243. Introduction of Physical Anthropology
Introduces primatology, human population genetics and micro evolution. Fall.

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. Spring, odd.

3233. Native American Culture in the Mid-South
Study of the regions early inhabitants, with field work opportunities. Offered in alternative years. Prerequisites, ANTH 2233 or permission of the instructor. Spring, even.

460V. 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. Fall, Spring, Summer.

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. Spring.

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. Fall.

2263. Criminal Evidence and Procedure
Rules of Evidence of 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. Fall.

3183. Institutional Corrections
An examination of the context, structure, and dynamics of local, state, and federal criminal confinement facilities. Fall.
3193. Community Corrections An examination of noninstitutional correctional agencies and techniques including probation, parole, diversion, pretrial release, community service, restitution, halfway house, and similar programs. Spring.

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. Spring.

3263. Criminology Sociological patterns of crime and criminals, with emphasis on causes, effects, and prevention. Fall, Spring.

3323. Juvenile Delinquency Causative factors in home, school, and community, extent of the problem, and methods of prevention and treatment. Fall.

4103. Criminal Justice Systems General functions of the individual agencies and the duties and responsibilities of the individuals who perform these functions. Fall.

460V. Special Problems Individually directed problems in Criminology. Must be arranged with the professor and approved by department chair. TBA.

470V. Internship Combines supervised work experience with study of selected agencies and organizations. Must be arranged with the professor and approved by the department chair. Fall, Spring, Summer.

Geography (GEOG)

2613. Introduction to Geography Emphasizes the physical and cultural patterns in the world. Fall, Spring, Summer.

3603. World Regional Geography Surveys geographic regions of the world, emphasizing the different ways of living and thinking by man in these different regions. Fall, even.

3613. Geography of the United States and Canada Emphasizes the physical and cultural backgrounds of the United States and Canada. Spring, even.

3643. Introduction to Cultural Geography Systematic examination of various cultures, especially their philosophies and dynamics of resource utilization and economic development. Spring, even.

3683. Economic Geography Spatial distribution and interrelations of economic factors and forces and how they are affected by geographic factors. Spring, 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. Demand.

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. Demand.

3743. Introduction to Land Use Planning Introduces the student to the 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. Demand.

3813. Introduction to Geographic Information Systems Introduces students to Geographic Information systems concepts and techniques. Demand.

4113. Water Resources Planning A study of the basic concepts of hydrology and the major issues associated with water resources planning and management. Demand.

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. Fall, Summer, even.

4313. Advanced Perspective in Historical Geography Examines issues that are both chronological and spatial in nature including settlement patterns, migration, and population trends. Demand.

460V. 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. Demand.

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. Spring, even.

4633. Climatology Climatic regions of the world; controlling factors of weather. Demand.

4643. Geography of Arkansas Arkansas physical, cultural, and historical landscapes. Summer.

4683. Senior Seminar The more important research methods in obtaining geographical information. Demand.

470V. 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. Demand.

4813. Special Topics in Geography An intensive study of a region or pertinent topic in geography. May be repeated once when topic changes. Demand.

Sociology (SOC)

2213. Principles of Sociology Human society and social behavior. Fall, Spring, Summer.

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 SW 2223. Fall, Spring, Summer.

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. Fall.

3213. Sociology of Intimate Relationships Aspects of close social relationships, roles, power, love, conflict, and change. Fall, even.

3223. Sociology of Marriage and the Family Emphasizes the sociocultural factors influencing the structure and development of marriage and the family. Fall, Spring, Summer.

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. Spring.

3333. Sociology of Health and Illness Social causation of diseases, social definition of health and illness, social aspects of healing and rehabilitation, the nature of health professions, and the delivery of health care services. Demand.

3353. Minority Groups Cultural approach to racial and nationality groups in American society. Competition, conflict, accommodation, and assimilation are studied as processes. Fall, Spring, Summer.

3363. Sociology of Religion Examines the relationship of religion to society, focusing on the functions and dysfunctions of religious systems on other social institutions. Demand.

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. Spring.

3381. Social Statistics Laboratory Laboratory associated with SOC 3383. Two hours per week. Corequisite, SOC 3383. Fall, Spring.

3383. Social Statistics Pertinent concepts, techniques, methods, and approaches used in sociological investigation. Fall, Spring.

4003. Perspective on Death and Dying A multidisciplinary overview of major themes and perspectives on dying, death, and bereavement, including historical, cultural, social, and psychological aspects. Medical, legal and ethical issues. Grief and bereavement. The death system. Violent death, disasters and megadeath. Beyond death. Prerequisite, minimum of 60 hours. Summer.

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 instructors permission. Cross listed as ECH 4053, NRS 4053, PSY 4053. Spring.

4063. Sociology of Disasters Sociocultural aspects of natural and human made disasters, individuals and groups readiness, and behavioral responses to disasters. Explores impact of gender, class, ethnicity, and age on vulnerability, response, and outcome. Prerequisite, 60 earned hours. Fall, odd.

4203. Social Deviance Describes and explains the violation of social norms. Spring.

4213. The Sociology of Childhood and Adolescence Focuses upon how the family life cycle influences the sociocultural experiences of children and adolescents. Summer.

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. Fall, Summer, 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. Summer.

4243. Social Theory Social thinking through the ages. Fall.

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. Spring, odd.

4263. Terrorism as a Social Movement Examines domestic and international terrorism, including history of terrorism, philosophical and religious ideologies justifying terrorism, social, political, economic, psychological, and legal impacts of terrorism, terrorist groups, motives and tactics, and methods of counter-terrorism. Prerequisite, minimum of 60 hours. Dual Listed SOC 5263. Fall, Spring, and Summer.

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. Spring, Summer, odd.

4293. Methods of Social Research Practical applications of sociological research techniques. Fall, Spring.

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. Fall, Spring.

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 QM 2113 and QM 3113 or AGRI 3233 and AGRI 4233 or TECH 3773 and TECH 4813. Fall.

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. Fall.

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. Demand.

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. Demand.

460V. 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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

DEPARTMENT OF ENGLISH AND PHILOSOPHY

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 English Composition 1. Fall, Spring.
0103. Composition for Non-Native Speakers I Comprehensive advanced grammar, sentence structure, and vocabulary for students scoring under 500 on the TOEFL. Fall, Spring.

0203. Composition for Non-Native Speakers II Designed to help nonnative 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. Fall, Spring.

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. Fall, Spring.

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. Fall, Spring.

1643. The Impulse toward Religion Demonstrates why and how religious belief and expression, though different in various cultures, remain vital forces. Required course for minor in Religious Studies. Fall.

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. Fall, Spring.

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. Fall, Spring.

2103. Introduction to Poetry and Drama Poetry and drama with emphasis on analytic reading and writing skills. Fall, Spring.

2113. Introduction to Fiction Short fiction and the novel with emphasis on analytic reading and writing skills. Fall, Spring.

3003. Advanced Composition Emphasis on the development of structure and style in the literary essay and on research skills. Spring.

3013. Practical Writing Emphasis on practical writing skills applicable to students in all disciplines. Will not apply to Engish degree requirements. Fall, Spring.

3023. Creative Writing Instruction and practice in the writing of poetry, fiction, and drama. Fall.

3043. Technical Writing Forms and techniques of technical writing. Spring, odd.

3223. British Literature to 1800 Major British authors, genres, and movements from the beginning to the end of the Neoclassical period. Fall, even.

3233. Shakespeare Introduction to the works of Shakespeare. Fall.

3243. British Drama to 1800 Drama in the Middle Ages, Renaissance, Restoration, and Neoclassical periods, including at least three Shakespeare plays. Spring, odd.

3263. British Literature Since 1800 Major British authors, genres, and movements from the Romantic period to the present. Fall, odd.

3293. British Novel Representative British novels. Spring, even.

3323. American Literature to 1865 Major American authors, genres, and movements from the beginning through the Civil War. Fall, even.

3363. American Literature Since 1865 Major American authors, genres, and movements from the Civil War to the present. Fall, odd.

3373. Regional American Literature Writings from a selected region of the United States. Fall, odd.


3423. Contemporary Prose Global fiction and nonfiction from 1945 to the present, including British or American and world authors. Fall, even.

3433. Modern and Contemporary Drama Global drama from Ibsen to the present, including British or American and world authors. Spring, even.

3443. Contemporary Poetry Global poetry from 1945 to the present, including British and American and world authors. Fall, odd.

3453. World Literature Selected authors, genres, movements, or themes in world literature. Fall, even.

3463. Literature and Film A study of how literature and literary tradition translate into cinema. Prerequisites, ENG 2003, 2013, 2103, 2113 or equivalent. Fall, even.

3482. Special Projects Practicum in the teaching of composition for the preprofessional. Prerequisite, consent of instructor. Fall.

3483. The Bible as Literature Analytical and critical study of selected books of the Bible with emphasis on its component genres, literary qualities, and influence. May not be repeated for credit. Spring, odd.

3493. Popular Literature One or more selected topics of popular literature, for example, science fiction, fantasy, sport, detective fiction, and the best seller. Spring, even.

3583. Literature for Adolescents Fiction, poetry, and drama which meet the needs of upper elementary, middle school, and high school students. Fall.

3613. Introduction to Folklore Collection, classification, and analysis of folklore, with special emphasis on oral literature. Fall.

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. Spring, 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. Spring, even.

3643. African-American Folklore A study of African American culture through New World black traditions, including oral narratives and folksongs. Fall, even.

4023. Advanced Creative Writing Writing poetry, fiction, or drama. Prerequisite, ENG 3023 or permission of instructor. Spring.

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. Spring.

4053. The English Language Historical, structural, and linguistic development of the English language, emphasizing sound change and analysis of spoken and written English. Fall, even.

4083. Comparative Modern Grammars Major grammatical systems, traditional, structural, and transformational. Spring.
4083. Introduction to Linguistics  Phonetics, phonemics, morphology, syntax, and semantics. Fall, odd.

4103. Introduction to Contemporary Literary Theory  An introduction to the major theoretical approaches to literary criticism, ranging from formalism through poststructuralism. Fall, 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. Spring, odd.

4183. Renaissance Drama Excluding Shakespeare  Familiarizes the student with the contemporaries of Shakespeare in the Elizabethan and Jacobean theatre. Some familiarity with Shakespeare helpful, but not essential. Spring, even.

4213. Medieval Literature  English literature during the Middle Ages. Selected continental writings may be included. Spring, even.

4223. Milton  An intensive study of selected works of John Milton. Fall, odd.

4233. Sixteenth-Century Literature  English literature during the sixteenth century. Selected continental writings may be included. Spring, even.

4243. Seventeenth-Century Literature  English literature during the seventeenth century. Selected continental writings may be included. Fall, even.

4253. Restoration and Neoclassical Literature  English literature during the late seventeenth and eighteenth centuries. Selected continental writings may be included. Spring, even.

4263. Romantic Literature  Major currents and figures of the English Romantic movement. Selected background writings may be included. Fall, even.

4273. Victorian Literature  Major currents and figures in the Victorian Age. Selected background writings may be included. Spring, odd.

4283. Modern British Literature  English literature in the twentieth century. Selected background writings may be included. Fall, odd.


4353. American Realism and Naturalism  American literature in the second half of the nineteenth century and the early twentieth century. Spring, odd.

4363. African-American Literature  Survey of African American literature from its beginnings to the present. Spring, odd.

4373. Modern American Literature  American literature since World War I. Spring, even.

4383. Minority Literature  Selected works of American minority writers from such groups as Blacks, Native Americans, or Chicanos. Fall, even.

4463. Special Topics  Intensive study of individual authors, limited periods, movements, or specific theme. Spring, even.

4473. Women Writers  A study of literature written by women. Spring, odd.

4613. Ballad and Folk Song  Analysis and interpretation of oral poetry, especially that of the English speaking world. Fall, odd.

4623. Mythology  Content, structure, and belief systems of various mythologies from the perspectives of selected mythographers. Spring, odd.

4633. Material Folk Culture  The analysis and interpretation of traditional skills, services, and art and craft objects provided in folk societies. Spring, even.

4643. Independent Fieldwork in Folklore  Development and implementation of a research agenda, using standard field methods in folklore studies such as the tapedocd interview and participant observation. Prerequisites, ENG 3613 and permission of instructor. Fall, Spring.

4703. Persuasive Writing  Practice in reading and writing persuasive texts, with study of theories relating to rhetoric and persuasion. Fall.

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. Fall, Spring.

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. Fall, Spring.

1773. Introduction to Women and Gender Studies  An interdisciplinary introduction to the core concepts of gender and women studies, gender as a concept, the role of gender in society, and the variations in gender that stem from race, class, and nationality. Fall.

2403. Introduction to Cognitive Science  Cognitive Science is a wide ranging area of study focusing on cognition from a variety of perspectives. Spring.

3213. History of Ancient and Medieval Philosophy  Development of Western philosophy from the time of the PreSocratics to the end of the Middle Ages. Fall, even.

3223. History of Modern Philosophy  Development of Western philosophy from the Renaissance to the present. Spring, 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. Fall, odd.

3403. Theory of Knowledge  Basic questions about the nature of human knowledge with emphasis on truth, evidence, and justification. Fall, even.

3423. Philosophy of Science  Provides critical examination of methods and presuppositions of science. Fall, 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. Demand.

3623. Eastern Philosophy  Major non-western philosophical traditions including Hinduism, Taoism, Buddhism, and Confucianism. Spring, even.

3703. Philosophy of Law  Conceptual and ethical questions relating to law and philosophy, including analytical jurisprudence, the justification of punishment, etc. Spring, odd.

3723. Computers, Ethics, and Society  Introduction to moral, professional, and legal issues involving computer hardware and software. Prerequisite, PHIL 1103 or permission of instructor. Spring, 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 instructors permission. Demand.

4213. **Contemporary Philosophy**  
Major trends in contemporary philosophy, particularly British Empiricism, European Existentialism, and American Pragmatism. Spring, odd.

4403. **Metaphysics**  
Introduction to basic issues in analytic metaphysics including philosophy of mind, personal identity, determinism, realism, supervenience, and modalities. Fall, 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. Spring, even.

4703. **Contemporary Ethical Issues**  
Examination of important recent theories of the nature or content of moral language, judgments, and norms. Fall, even.

4723. **Aesthetics**  
The nature of art, designed to help students respond intelligently to works of art. Fall, even.

4733. **Environmental Ethics**  
An investigation of the ethical dimensions of environmental issues. Prerequisite, PHIL 1103. Fall, 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 instructors permission. Fall, even.

4773. **Defining Race**  
Biological, constructivist, and denial theories of race and their moral and political ramifications for racism, affirmative action, and hate crime legislation. Prerequisite, PHIL 1103. Spring, odd.

480V. **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. Fall, Spring.

4883. **Philosophical Classics**  
Advanced study of selected central works in philosophy. Content will vary. Prerequisite, 9 hours of philosophy. Demand.

**Teaching Internship (TIEN)**

**TIEN 4825.** ENGLISH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Ten semester hours. Full semester teaching internship. Fall, Spring.

**TIEN 4826.** ENGLISH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
12 semester hours. Full semester teaching internship. Fall, Spring.

**DEPARTMENT OF HISTORY**

1003. **Introduction to Legal Professions**  
GENERAL HISTORY. First year experience course examining legal professions and issues, as well as interdisciplinary skills to aid in college success. Fall.

1013. **World Civilization To 1660**  
WORLD AND EUROPEAN HISTORY. The great civilizations, with emphasis on the main historical currents influencing modern society. Fall, Spring, Summer.

1023. **World Civilization Since 1660**  
WORLD AND EUROPEAN HISTORY. Continuation of HIST 1013, with emphasis on the past three centuries. Fall, Spring, Summer.

2763. **The United States to 1876**  
UNITED STATES HISTORY. Social, economic, and political developments from Columbus to the end of Reconstruction. Fall, Spring, Summer.

2773. **The United States since 1876**  
UNITED STATES HISTORY. Social, economic, and political developments from Reconstruction to the present. Fall, Spring, Summer.

3013. **Civilizations of Africa**  
WORLD AND EUROPEAN HISTORY. African history from its earliest beginnings to modern times. Specific attention given to social, economic, political, and religious factors. Regional focus on West Africa. Spring, even.

3083. **History of Arkansas**  
UNITED STATES HISTORY. Social, economic, and political developments from the coming of the white man to the present. Required of BSE Social Science majors. Demand.

3123. **Latin America, The Colonial Period**  
WORLD AND EUROPEAN HISTORY. From the preColumbian Indian civilization to the era of independence. Fall, odd.

3133. **Latin America, The National Period**  
WORLD AND EUROPEAN HISTORY. Development of Latin American nation states. Spring, even.

3173. **Classical Mediterranean Civilization**  
WORLD AND EUROPEAN HISTORY. Major developments of the GrecoRoman civilizations pertaining to our present civilization. Fall, even.

3183. **Medieval Europe**  
WORLD AND EUROPEAN HISTORY. Europe from 500 to 1500 with emphasis on social institutions. Spring, odd.

3193. **The Crusades**  
WORLD AND EUROPEAN HISTORY. Medieval Crusading and Crusaders, the wars, religions, politics, economics, social effects and lasting legacies of the Crusade movement. Fall, odd.

3203. **The History of Law**  
GENERAL HISTORY. Law from primitive beings in early societies through the English Common Law, development of law in America. Recommended for PreLaw students. Demand.

3213. **Introduction to Museum Work**  
GENERAL HISTORY. Emphasizes both theory and hands on experience in administration, collections, management, exhibition techniques, museum education, and documenting artifacts. Spring.

3223. **Renaissance and Reformation Europe**  
WORLD AND EUROPEAN HISTORY. Political, economic, and cultural change in postmedieval Europe, 1350 to 1600. Spring, odd.

3233. **Age of Science and Reason**  
WORLD AND EUROPEAN HISTORY. Europe between the sixteenth and eighteenth centuries. Spring, even.

3253. **Modern Europe, 1750-1870**  
WORLD AND EUROPEAN HISTORY. Europe during the French and Industrial Revolutions, a study of the nation state system and imperialism. Fall, odd.

3273. **The Age of Crisis. Europe 1870 to Present**  
WORLD AND EUROPEAN HISTORY. World War I, the rise of Fascism, Communism, and the Welfare State. Spring, even.

3283. **Society and Thought in Europe**  
WORLD AND EUROPEAN HISTORY. Evolution of leading European cultural values against the background of socioeconomic change, 1500 to the present. Fall, even.
3293. History of Science  
GENERAL HISTORY. The emergence of modern science since 1500. Thematic studies to illuminate revolutionary change in science and the impact of science based technology on society. Spring, even.

3303. The Modern History of the Middle East. 1800 to the Present  
WORLD AND EUROPEAN HISTORY. Major developments in Middle Eastern history with emphasis on the twentieth century. Fall, odd.

3323. United States Environmental History  
UNITED STATES HISTORY. Examines the economic, philosophical, ethical and aesthetic issues involved in the history of conservation, preservation, management and exploitation of the American environment. Fall, odd.

3333. The Practice of History  
GENERAL HISTORY. Experiential study of historical scholarship, research, writing, and criticism. To be taken at the beginning of the major. Required for all history degrees. Fall, Spring.

3473. United States Labor History  
UNITED STATES HISTORY. The rise and progress of labor organizations and their impact on American life. Fall, even.

3483. The United States from 1917-1941  
UNITED STATES HISTORY. Social, political, and economic developments in the United States from 1917 to 1941. Spring, odd.

3493. The United States Since 1945  
UNITED STATES HISTORY. Social, political, and economic developments in the United States from 1945 to the present. Fall, even.

3503. U.S. Foreign Relations since 1900  
UNITED STATES HISTORY. History of United States relations with foreign nations from 1900 to the recent past. Fall, even.

3563. Constitutional History of the United States  
UNITED STATES HISTORY. Origin and development of American legal and constitutional systems. Recommended for prelaw students. Fall, odd.

3583. History of Law Enforcement  
UNITED STATES HISTORY. Policing, crime, and the criminal justice system in the United States. Recommended for criminology majors. Spring, even.

3603. The American South  
UNITED STATES HISTORY. The South in American history from Jamestown through the twentieth century. Fall, odd.

3623. The American West  
UNITED STATES HISTORY. The American West from the Lewis and Clark expedition to the closing of the frontier. Fall, even.

3653. The American Indian  
UNITED STATES HISTORY. History and culture of the American Indian and the role of government in Indian affairs. Spring, even.

3673. African American History I  
UNITED STATES HISTORY. Contributions of people of African descent in the creation of the United States from the Colonial period through Reconstruction. Fall, odd.

3683. African American History II  
UNITED STATES HISTORY. The African American experience from Reconstruction to the present and its impact in U.S. History. Spring, even.

3693. United States Women's History  
UNITED STATES HISTORY. The role of women in United States history from 1600 to the present. Spring, odd.

3743. The Urban Revolution in America  
UNITED STATES HISTORY. Evolution of the American city and its impact on society. Spring, even.

3753. History of American Technology  
UNITED STATES HISTORY. Development and institutionalization of technology in American society to the present. Includes innovation in homes, business, agriculture, transportation, construction, medicine, and government. Spring.

3813. The United States in World War I  
UNITED STATES HISTORY. U.S. Military involvement in World War I and the social, economic and political impact of the war on American society. Fall.

3823. The United States in World War II  
UNITED STATES HISTORY. American military involvement in World War II and the social, economic and political impact of the war on American society. Spring.

3853. U.S. Civil Rights Movement  
UNITED STATES HISTORY. The transformation of America through campaigns for African Americans civil rights. Prerequisites, HIST 2773, or HIST 3683, or POSC 3163, or instructors permission. Fall, even.

4113. Imperial Russia  
WORLD AND EUROPEAN HISTORY. Russian history to the Revolution of 1917. Fall, odd.

4123. Soviet Russia  

4133. History of Ancient China  
WORLD AND EUROPEAN HISTORY. Ancient Chinese civilization from the founding of the Shang Dynasty, 1766 B.C., to the end of the Three Kingdoms Period, A.D. 280. Demand.

4143. The Rise of Modern China  
WORLD AND EUROPEAN HISTORY. Major developments in Chinese history with emphasis on the twentieth century. Fall, odd.

4153. The Rise of Modern Japan  
WORLD AND EUROPEAN HISTORY. Major developments in Japanese history with emphasis on the twentieth century. Spring, odd.

4213. History of England, 55 BC to AD 1689  
WORLD AND EUROPEAN HISTORY. The social, political, and ecclesiastical history of England from Julius Caesars reconnaissance to the Glorious Revolution. Fall, even.

4223. History of Great Britain. 1688 to 1982  
WORLD AND EUROPEAN HISTORY. The social, political, economic, and imperial history of Great Britain from the Glorious Revolution to the Falklands War. Spring, odd.

4253. The Rise of Modern Germany  
WORLD AND EUROPEAN HISTORY. Germany and its role in world affairs since 1648, with emphasis on the period from Bismarck to Hitler. Fall, even.

4273. History of Mexico  
WORLD AND EUROPEAN HISTORY. Emphasizes contemporary developments and relations with the United States. Spring, odd.

4303. The Idea of History  
Study of the idea of history in its chronological, practical, and historiosophical manifestations. Spring.

4312. Computer Technology for the History/Social Sciences Educator  
GENERAL HISTORY. 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. Spring, Summer.

4413. Colonial North America  
UNITED STATES HISTORY. Colonial development from Jamestown through the American Revolution. Fall, even.

4423. Foundations of the American Republic, 1783 to 1850  
UNITED STATES HISTORY. Major political and social developments between the Revolution and the Civil War. Summer, odd.
453. United States Civil War and Reconstruction  UNITED STATES HISTORY. The Civil War period and the resulting problems of Reconstruction. Fall, even.

453. U.S. Gilded Age/Progressive Era  UNITED STATES HISTORY. Explores the dramatic economic, social, and political upheavals of 1880 to 1917. Spring, odd.

473. U.S. Southern Women’s History  UNITED STATES HISTORY. Examines the history and changing status of women in the U.S. South from the 1400s to the present. Spring, even.

4513. Museum Collections Management  GENERAL HISTORY. An overview of the management and preservation of material culture in museums. Policy development, documentation and care of collections are broad topic areas. Demand.

4553. History of Medicine  WORLD AND EUROPEAN HISTORY. Worldwide survey of medicine, disease, and health from prehistoric times to the present. Fall, odd.

4583. Special Topics in American History  UNITED STATES HISTORY. Subtitle varies. Topic varies, but especially emphasizes new developments in American history. May be repeated for credit with different subtitle. Demand.

4593. Special Topics in World History  WORLD AND EUROPEAN HISTORY. Subtitle varies. Topic varies, but especially emphasizes new developments in World History. May be repeated for credit with different subtitle. Demand.

460V. Special Problems in History  GENERAL HISTORY. Individual problems in history for juniors and seniors, arranged in consultation with a professor. Must be approved by the department chair. Demand.

4703. Internship in Public History  GENERAL HISTORY. Supervised practical experience with public agencies or private businesses in history related subjects. Prerequisite, consent of the department chair. Demand.

4763. Public History Seminar  GENERAL HISTORY. Examines the philosophical, ethical, and practical aspects of applying the historians craft and training outside the classroom. Spring, odd.

4803. Senior History Seminar  GENERAL HISTORY. Advanced study of selected topics, with focus on historical research, writing and critical thinking. Senior history or social science majors only. Content varies. Demand.

Teaching Internship (TIHI)

TIHI 4825. HISTORY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  Ten semester hours. Full semester teaching internship. Fall, Spring.

TIHI 4826. HISTORY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

DEPARTMENT OF LANGUAGES

Arabic (AR)

1036. Accelerated Elementary Arabic  Pronunciation and basic grammar, simple speaking and listening comprehension skills, and cultural understanding of the Arabic world. Fall.

2036. Accelerated Intermediate Arabic  Further development of listening and speaking skills, with increasing emphasis on reading and writing. Prerequisite, AR 1036. Spring.

French (FR)

1013. Elementary French I  Practice toward developing basic proficiency in listening comprehension, speaking, reading, writing, and cultural understanding of the French speaking world. Fall.

1023. Elementary French II  Continuation of FR 1013. Prerequisite, FR 1013 or consent of department chair. Spring.

1036. Accelerated Elementary French I & II  Intensive one semester course that covers the material of instruction designed for a regular academic year. Fall.

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. Fall.


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. Spring.

3013. French Phonetics  Intensive work on the sound system of French to develop skills in pronunciation and listening comprehension. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Fall, 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 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. Demand.

3183. French Conversation  Practice toward developing facility in oral expression in various everyday situations. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Fall, even.


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. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Demand.

3463. Advanced French Grammar  Grammar and structure of the French language in order to develop students facility in the written language. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Fall, 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. Spring, 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. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Fall, odd.

3623. Contemporary France Readings and discussions on post-war French political and social history, mentalities, and current problems. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Spring, 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. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Demand.

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. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Fall, 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. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Spring, even.

4503. Special Topics Advanced study in a particular area of literature, culture, or language. Topic varies. May be repeated when topic changes. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Spring, even, Fall, even.

460V. 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 credit. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Spring, even, Fall, even.

480V. 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 credit for majors and up to three hours credit for minors. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Demand.

German (GER)

1013. Elementary German I The listening, speaking, reading, writing approach to develop basic language skills. Fall.

1023. Elementary German II Continuation of GER 1013. Prerequisite, GER 1013 or consent of department chair. Spring.

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. Fall.

2023. Intermediate German II Continuation of GER 2013. Prerequisite, GER 2013 or consent of department chair. Spring.

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. Demand.

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. Prerequisite, GER 2023 or consent of instructor. Fall, 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. Prerequisite, GER 2023 or consent of instructor. Spring, odd.

3183. German Conversation Elements of spoken German with emphasis on the modern idiom. Prerequisite, GER 2023 or consent of instructor. Fall, even.

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 or consent of instructor. Spring, even.

480V. Readings in German Independent readings for advanced students only. Limited to three hours. Must have consent of department chair. Demand.

International Studies (INST)

4503. Special Topics Focused treatment of an issue, theme, or problem related to international history, politics, culture, or related area. Demand.

4803. Independent Study Independent readings for advanced students only. Limited to three hours. Must have consent of department chair. Demand.

Spanish (SPAN)

1013. Elementary Spanish I The listening, speaking, reading, writing, approach to develop basic language skills. Fall, Spring, Summer.

1023. Elementary Spanish II Continuation of SPAN 1013. Prerequisite, SPAN 1013 or consent of department chair. Fall, Spring, Summer.

1036. Accelerated Elementary Spanish I & II Intensive one semester course that covers the material of instruction designed for a regular academic year. Fall, Spring.

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. Fall, Spring, Summer.

2023. Intermediate Spanish II Continuation of SPAN 2013. Prerequisite, SPAN 2013 or consent of department chair. Fall, Spring, Summer.

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. Fall, Spring.

3013. Spanish Phonetics Provides a developmental study of sound production in Spanish through study and various modes direct application and interaction. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Spring, even.

3183. Spanish Conversation I Practice toward developing facility in oral expression in various everyday situations. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Fall.

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. Spring.
3303. Grammar and Composition I  Extensive practice in writing descriptive, narrative, and expository essays, including a review of the grammar of the language. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Fall.

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, SPAN 3303 or consent of instructor. Spring.

3413. Introduction to Hispanic Literature  An introduction to poetry, drama, novel, and short story with emphasis on analytical reading. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Fall. Spring.

3623. Culture and Civilization, The Americas  A panoramic approach to the histories, geographies, social constructs, and political scenarios of the Spanish speaking Americas. Prerequisite, SPAN 3183 or consent of instructor. Spring, 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. Spring, 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. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Spring. odd.

4413. 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. Fall. 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. Spring, 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. Spring, 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. Fall, even.

460V. Special Project in Teaching  Independent study of selected professional topics in language teaching. May not be used to satisfy major requirements. May be repeated for up to six hours credit. Prerequisite, SPAN 2023 or SPAN 2036 or consent of department chair. Fall. odd.

4703. Internship  Provides practical experience in the Spanish language and Hispanic cultures at a site offering interaction with the Hispanic community of this region. Prerequisite, 12 hours of Spanish above the intermediate level and approval of Department Chair. May be repeated for credit, but only 3 hours may be applied to the major or minor requirements. Demand.

480V. 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. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Demand.

Teaching Internship (TILA)

4825. LANGUAGE TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  Ten semester hours. Full semester teaching internship. Fall, Spring.

4826. LANGUAGE TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  12 semester hours. Full semester teaching internship. Fall, Spring.

DEPARTMENT OF POLITICAL SCIENCE

1003. Introduction to Politics  GENERAL 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. Fall, Spring.


2103. Introduction to United States Government  AMERICAN POLITICS. The constitution, government, and politics of the United States. Fall, Spring, Summer.

3003. Introduction to Political Analysis  POLITICAL METHODOLOGY. Introduction to the discipline of political science, its subfields, and to the use of the social scientific method and logical inquiry. Fall.

3113. American Municipal Government  AMERICAN POLITICS. Types of governments in municipalities of the United States. Fall, Spring.

3123. American Constitutional Law  AMERICAN POLITICS. 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. Fall.

3133. Political Parties and Interest Groups  AMERICAN POLITICS. American political parties and interest groups. Spring.

3143. State and Local Government  AMERICAN POLITICS. An examination of the powers and institutions and policies of state and local governments. Fall, Spring.

3153. American Executive Process  AMERICAN POLITICS. Governmental executive processes in the American political system. Spring, even.

3163. Black Politics  AMERICAN POLITICS. Exposes students to the variety of literature on Black people in American politics, political strategies and actions are the major themes. Spring, even.

3173. Civil Liberties  AMERICAN POLITICS. Judicial and statutory interpretations of the fundamental liberties contained in the U.S. Constitution. Spring.

3183. Criminal Law and the Constitution  AMERICAN POLITICS. An examination of state and federal police powers and how they are regulated by the Constitution and statutes. Fall, Spring, Summer.

3193. Arkansas Government and Politics  AMERICAN POLITICS. Introduction to Arkansas government and politics, focusing on the institutions of state government, Governor, General Assembly, Courts, and state politics, campaigns and elections, political parties, interest group activity, and selected policy issues facing state government in Arkansas. Spring.

3203. Introduction to Comparative Politics  COMPARATIVE POLITICS. Surveys the field of comparative politics, with case studies of selected countries. Fall, odd.
3213. African Political Systems  COMPARATIVE POLITICS. The government and politics of primarily sub-Saharan Africa, involves study of the people as well as their political institutions. Fall, even.

3223. European Political Systems  COMPARATIVE POLITICS. A comparative analysis of major European political systems in terms of their pressure groups, political parties, and policy formation processes. Demand.

3233. Chinese Political System  COMPARATIVE POLITICS. The Chinese government, the Chinese Communist Party, socioeconomic change, and Chinese foreign policy. Fall, odd.

3303. Introduction to International Politics  INTERNATIONAL POLITICS. Various approaches to the study of international politics. Fall, even.

3313. American Foreign Policy  INTERNATIONAL POLITICS. Development, formation, goals, administration, and realities of American foreign policy in modern times, with emphasis on current issues. Spring.

3323. American National Defense Policies  INTERNATIONAL POLITICS. Key issues vital to U.S. defense, including strategic force levels, sea, air and land forces, limited war, low intensity conflict, and nuclear nonproliferation. Fall, odd.

3413. Classical and Medieval Political Theory  POLITICAL THEORY. Classical Greek and Christian forms of political theory. Fall, odd.

3423. American Political Theory  POLITICAL THEORY. An analytical study of American political theories from the precolonial era to the present and their impact upon our political institutions. Spring, odd.

3433. Political Ideologies  POLITICAL THEORY. Contemporary political ideas and movements, including liberalism, conservatism, anarchism, fascism, communism, and nationalism. Fall, even.


3513. Public Budgeting Process  PUBLIC ADMINISTRATION. The public budgeting processes of the United States and of Arkansas, administrative and political problems connected with raising and expending public revenues. Spring, even.

4003. Special Topics. Political Psychology  GENERAL POLITICS. 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. Demand.

4113. American Legislative Process  AMERICAN POLITICS. Structure and organization of legislative bodies, with a detailed study of legislative processes. Spring, odd.

4123. Women in Politics  AMERICAN POLITICS. An examination of the interrelationship of gender, politics, and popular culture. Spring, odd.

4133. Intergovernmental Relations  AMERICAN POLITICS. The varied and complex relationships among governments in the American federal system, with special emphasis on issues of security, natural and manmade disasters. May be credited toward Minor in Homeland Security and Disaster Preparedness. Spring-odd.

4213. Politics of the Former Soviet Lands  COMPARATIVE POLITICS. 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. Spring, even.

4223. Middle Eastern Political Systems  COMPARATIVE POLITICS. Major Middle Eastern political systems, with concentration on their common characteristics and major differences. Spring, odd.

4313. International Organization  INTERNATIONAL POLITICS. Development, structure, and politics of international organizations such as the United Nations. Fall, odd.

4313. Modern Political Theory  POLITICAL THEORY. Writings of modern political philosophers such as Machiavelli, Hobbes, and Rousseau. Spring.

4453. Analysis of Contemporary Political Theory  POLITICAL THEORY. 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. Spring.

4503. Introduction to Public Policy Studies  PUBLIC ADMINISTRATION. Provides a framework for understanding the fundamentals of the policymaking process. Fall.

4513. Disaster Response Operation Management  PUBLIC ADMINISTRATION. Roles and responsibilities of public managers and others within the National Incident Management System. May be credited toward Minor in Homeland Security and Disaster Preparedness. Fall-odd.

4523. Public Personnel Administration  PUBLIC ADMINISTRATION. Policies, methods, and techniques utilized in public personnel. Fall.

4533. Environmental Law and Administration  PUBLIC ADMINISTRATION. Overview of current environmental law, its administration and enforcement. Demand.

4553. HSDP Capstone  PUBLIC ADMINISTRATION. Application of skills and knowledge gained in the minor to the analysis of a specific need or problem and the design of solutions. Teamwork among various specialties with the field. Prerequisite, NRS 4503. Permission of instructor required. Spring.

480V. Readings in Political Science  READINGS IN POLITICAL SCIENCE. Independent readings for all advanced students regardless of major. Limited to three hours. Students must have consent of instructor and department chair. Fall, Spring, Summer.

481V. Internships  GENERAL POLITICS. Placement of students in community based and government agencies to provide a practical framework for applying the theoretical instruction of the classroom. Demand.
College of Nursing and Health Professions

Professor Susan Hanrahan, Dean

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 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 (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, 773-714-8888. 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; telephone (312) 751-9100. 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.


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 972-5106; 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 NRSP 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.

After being admitted to Arkansas State University, students should obtain an application form from the department or program office. The application, together with other required materials, must be submitted in accord with 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.

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 such nursing 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 following: 3.1 or better GPA for PSY 2013, ZOOL 2003 and 2001, CD 2653, CD 2104, CD 2203, and GSP 1204; "C" or better in ENG 1003, ENG 1013, SCMT 1003 and MATH 1023; 2.75 or better overall GPA; ten (10) clock-hours of documented, prescribed observation; a speech and hearing screening; and a minimum of 30 hours of earned academic credit.

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 and West Memphis campus is October 1st. 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/admission/readmissions 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 students 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) interview, and 4) personal essay completed at the orientation session 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 prerequisite 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) selected course grades 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 online.

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 practicums, 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 2.0, 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 2.0 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.
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 depart-
      mental 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, Neely; 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, Sloas.

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 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
1204. 2. A "C" 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.
5. A speech and hearing screening. 6. A minimum of 30 hours of earned academic credit.

PHYSICAL THERAPIST 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 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 represen-
tatives 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 specialties: 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>* CHEM 1013 AND CHEM 1011, General Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CS 1043 or CIT 1503, Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1003 AND 1013, Composition I and II</td>
<td>6</td>
</tr>
<tr>
<td>HIST 2763 OR 2773, U.S. History To or Since 1876; OR POCS 2103, Introduction to United States Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1103, College Algebra (or higher level math)</td>
<td>3</td>
</tr>
</tbody>
</table>

* If the student has not had chemistry previously, then CHEM 1003, Intro. to Chemistry, must be completed first.

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2105/2101, Microbiology for Nursing and Allied Health AND Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CLS 1511/1512, Basic Principles AND Basic Principles Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CLS 1521/1531, Body Fluids AND Body Fluids Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CLS 2512/2531, Medical Microbiology AND Medical Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2541, Clinical Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2542, Clinical Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2543/2541, Medical Microbiology AND Medical Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2574/2571, Clinical Immunology AND Clinical Immunology and Serology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3514, Clinical Practicum III</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3504, Clinical Practicum IV</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 1021, Human Physiology Lab AND ZOOL 1023, Human Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 59

**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 adviser for a plan that best meets individual needs.

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CLS 1511</td>
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<tr>
<td>CLS 1512</td>
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</tr>
<tr>
<td>CLS 2523</td>
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<tr>
<td>ENG 1003</td>
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<tr>
<td>MATH 1023</td>
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<tr>
<td><strong>Summer I (4 hrs.)</strong></td>
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<tr>
<td>CLS 2514</td>
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**Second Year**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM 1011</td>
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<tr>
<td>CHEM 1013</td>
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<tr>
<td>CLS 2523</td>
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<td>CLS 2533</td>
<td>3</td>
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<tr>
<td>CLS 2563</td>
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<tr>
<td>CLS 2565</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR 2773, U.S. History To or Since 1876; OR POCS 2103, Introduction to United States Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1103</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2001/2003</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 147-148

**Clinical Laboratory Sciences Bachelor of Science**

Following is one suggested sequence in which requirements for the Bachelor of 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 adviser for a plan that best meets individual needs.

**First Year**

<table>
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<tr>
<th>Course</th>
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<tr>
<td>CHEM 1011</td>
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<tr>
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<tr>
<td>CLS 2523</td>
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<td>CLS 2533</td>
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<td>CLS 2563</td>
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<td>MATH 1103</td>
<td>3</td>
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<td>ZOOL 2001/2003</td>
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<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM 1023/1025, General Chemistry I AND General Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3113/3111, Organic Chemistry AND Organic Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>POCS 2103, Clinical Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CLS 1521/1531, Body Fluids AND Body Fluids Laboratory</td>
<td>2</td>
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<tr>
<td>CLS 2563/2561, Medical Microbiology AND Medical Microbiology Laboratory</td>
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<tr>
<td>CLS 2583, Clinical Practicum I</td>
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<td>CLS 2584, Clinical Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3504, Clinical Practicum IV</td>
<td>4</td>
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<tr>
<td>ZOOL 1021, Human Physiology Lab AND ZOOL 1023, Human Physiology</td>
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</tr>
</tbody>
</table>

Total 90-91

**Clinical Laboratory Sciences Bachelor of Science**

**First Year**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM 1011</td>
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<td>CLS 2523</td>
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<td>CLS 2533</td>
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<td>CLS 1521/1531, Body Fluids AND Body Fluids Laboratory</td>
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<tr>
<td>CLS 2563/2561, Medical Microbiology AND Medical Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2583, Clinical Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2584, Clinical Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3504, Clinical Practicum IV</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2001/2003</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 147-148

**Clinical Laboratory Sciences Bachelor of Science**

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1011</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>3</td>
</tr>
<tr>
<td>CLS 2523</td>
<td>3</td>
</tr>
<tr>
<td>CLS 2533</td>
<td>3</td>
</tr>
<tr>
<td>CLS 2563</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR 2773, U.S. History To or Since 1876; OR POCS 2103, Introduction to United States Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1103</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2001/2003</td>
<td>4</td>
</tr>
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</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1023/1025, General Chemistry I AND General Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3113/3111, Organic Chemistry AND Organic Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>POCS 2103, Clinical Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CLS 1521/1531, Body Fluids AND Body Fluids Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CLS 2563/2561, Medical Microbiology AND Medical Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2583, Clinical Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>CLS 2584, Clinical Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>CLS 3504, Clinical Practicum IV</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2001/2003</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 147-148
**Prerequisite:** Must be admitted into the undergraduate Communication Disorders Program.

### 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 .................................................. 46-49

#### 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>Semester</th>
<th>Course Codes</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Fall (15 hrs.)</td>
<td>BIOL 3313 or CLS 4013</td>
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<tr>
<td>Spring (15 hrs.)</td>
<td>BIOL 3313 or CLS 4013</td>
<td>4</td>
</tr>
<tr>
<td>Fall (15 hrs.)</td>
<td>CLS 1521</td>
<td>3</td>
</tr>
<tr>
<td>Spring (14 hrs.)</td>
<td>CLS 1521</td>
<td>3</td>
</tr>
<tr>
<td>Fall (15 hrs.)</td>
<td>CLS 2521</td>
<td>3</td>
</tr>
<tr>
<td>Spring (14 hrs.)</td>
<td>CLS 2521</td>
<td>3</td>
</tr>
<tr>
<td>Fall (15 hrs.)</td>
<td>CLS 3221</td>
<td>3</td>
</tr>
<tr>
<td>Spring (14 hrs.)</td>
<td>CLS 3221</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Preprofessional Requirements:

- An overall GPA of 2.75
- "C" or better in:
  - ENG 1003 Composition I
  - MATH 1013 Composition II
  - PSY 2013

#### Electives:

Free Electives / Enhancements ................................................................. 3

Total 124

---

### 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
- *CD 2203 Phonetics* (CD 2203 Speech Communication)
- *ENG 1003 Composition I* (ENG 1013 Composition I)
- *MATH 1013 College Algebra* (MATH 1023 College Algebra)
- *PSY 2103 Intro to Psychology* (PSY 2013 Intro to Psychology)
- *ZOOI 2003 Human Anatomy and Physiology Lab* (ZOOI 2003 Human Anatomy and Physiology)
- 10 clock hours of documented information
- Speech and hearing screening

#### Freshman Year

- ENG 1003 Composition I
- MATH 1013 Composition II
- PSY 2013
- ZOOI 2003 Human Anatomy and Physiology Lab
- PE 1002 or NRS 2203

#### Sophomore Year

- *CD 2203 Phonetics* (CD 2203 Speech Communication)
- *ENG 1003 Composition I* (ENG 1013 Composition I)
- *MATH 1013 College Algebra* (MATH 1023 College Algebra)
- *PSY 2103 Intro to Psychology* (PSY 2013 Intro to Psychology)
- *ZOOI 2003 Human Anatomy and Physiology Lab* (ZOOI 2003 Human Anatomy and Physiology)
- CD 4093 Neurological Bases

#### Junior Year

- CD 2104 Anatomy and Physiology of CD with Lab
- CD 2203, Phonetics
- CD 2653 Introduction to Communication Disorders
- PHSC 1203 Physical Science
- SCOM 1203 Speech Communication
- CD 2203 Speech Communication

#### Senior Year

- CD 4203, Organic Speech Disorders
- CD 4303 Language Intervention
- CD 4214 Aural Rehab (Child)
- CD 4751 Clinic
- CD 4102 Intro to Manual Communications
1. Social Sciences
   Two of the following courses must be completed
   
   At least one course must be selected from HIST 2763, 2773, or POSC 2103.

   ECON 2521, Principles of Macroeconomics
   ECON 2522, Principles of Microeconomics
   HIST 2763, The United States to 1876
   HIST 2773, The United States since 1876

2. Life Sciences
   Select one of the following

   BIOL 1003, Biological Science, and BIOL 1001, Biological Science Laboratory
   BIOL 1013, Biology of the Cell, and BIOL 1021, Biology of the Cell Laboratory
   BIOL 1033, Biology of Sex, and BIOL 1001, Biological Science Laboratory
   BIOL 1043, Plants and People, and BIOL 1001, Biological Science Laboratory
   BIOL 1053, People and the Environment, and BIOL 1001, Biological Science Laboratory
   BIOL 2123, Microbiology, and BIOL 2101, Microbiology for Nursing and Allied Health Laboratory

3. Physical Sciences
   Select one of the following

   CHEM 1003, General Chemistry I, and CHEM 1011, General Chemistry I Laboratory
   GEOG 1003, Environmental Geology, and GEOG 1001, Environmental Geology Laboratory
   PHYS 1003, General Physics I, and PHYS 1001, General Physics I Laboratory
   PHYS 1013, General Physics II, and PHYS 1011, General Physics II Laboratory
   PHYS 2003, University Physics I (Multimedia)

4. Arts and Humanities
   Students must complete three courses from this section.

   At least one must be a fine arts course, and at least one must be a humanities course.

   Fine Arts:
   ART 2503, Fine Arts Visual
   MUS 2503, Fine Arts Musical
   THEA 2503, Fine Arts Theatre
   Humanities:
   ENG 3003, Intro to Literature of the Western World
   ENG 2013, Intro to Literature of the Western World
   PHIL 1103, Intro to Philosophy

5. Writing
   One of the following courses must be completed

   One of the following courses must be completed

6. Understanding Global Issues
   One of the following courses must be completed

   One of the following courses must be completed

7. Psychology and Learning
   Two of the following courses must be completed

   PSY 3403, Child Psychology
   PSY 3413, Adolescent Psychology
   PSY 3453, Developmental Psychology
   PSY 3463, Cognitive Psychology

8. Aging
   One of the following courses must be completed

   SOC 4353, Sociology of Aging

9. Health Science
   One of the following courses must be completed

   One of the following courses must be completed

10. Enhancements
    One of the following courses must be completed. (May not duplicate #4 selection)

    AGR 2243, Feeding the Planet
    ENG 3013, Practical Writing
    ENG 3043, Technical Writing
    ENG 4703, Persuasive Writing

---

**Major in Physical Therapist Assistant Associate in Applied Science**

**General Education Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1043, Introduction to Computers or CIT 1503, Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1003 AND 1013, Composition I and II</td>
<td>6</td>
</tr>
<tr>
<td>HIST 2763 or HIST 2773, U.S. History To or Since 1876, OR POSC 2103, Introduction to U.S. Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1003, College Algebra or higher level math course</td>
<td>3</td>
</tr>
<tr>
<td>** ZOOL 2003 and 2001, Human Anatomy and Physiology I and II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>19</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.

**Major Requirements**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>PTA 2116, Patient Care Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PTA 2126, Movement Science</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PTA 2213, Musculoskeletal PT I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2223, Physical Agents and Massage</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2233, Neuro muscular PT I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2243, Cardiopulmonary PT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2252, Clinical Education I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2323, Seminar</td>
<td>3</td>
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<tr>
<td></td>
<td>PTA 2333, Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2343, Clinical Education III</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Support Courses**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>HP 2013, Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHYS 2133, Survey of Physics for Health Professions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY 2013, Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 2333, Economic Issues &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 2763, The United States to 1876</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 2773, The United States since 1876</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POSC 2103, Intro to American Government</td>
<td>3</td>
</tr>
</tbody>
</table>

**Physical Therapist Assistant Associate in Applied Science**

**Freshman Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENG 1003, Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HP 2013, Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHYS 2133, Survey of Physics for Health Professions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2003, Human Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2001, Human Anatomy and Physiology II</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>ENG 1013, Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CS 1043, Introduction to Computers or CIT 1503, Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HP 2013, Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHYS 2133, Survey of Physics for Health Professions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2003, Human Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2001, Human Anatomy and Physiology II</td>
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</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>PTA 2116, Patient Care Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PTA 2126, Movement Science</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PTA 2213, Musculoskeletal PT I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2223, Physical Agents and Massage</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2233, Neuro muscular PT I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2243, Cardiopulmonary PT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2252, Clinical Education I</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>PTA 2233, Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2233, Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2233, Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PTA 2233, Clinical Education II</td>
<td>3</td>
</tr>
</tbody>
</table>

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The BS in Radiologic Sciences degree is offered in 4 emphasis areas:

1. Imaging Specialist (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: 47
- 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 degree. (See the Health Professional Advisor or the Director of Radiologic Sciences Programs for complete details.)

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 www.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.
AAS Degree Radiologic Technology Emphasis

The following courses are required following admission to the professional program:

1st Summer I
- RT 1222, Radiation Physics ................................................................. 2

1st Summer II
- RT 1103, Introduction to Radiologic Technology ................................ 3
- RT 1112, Basic Radiologic Procedures ............................................... 2
- RT 1121, Basic Radiologic Procedures Laboratory .......................... 1

1st Fall
- RT 1202, Radiologic Procedures ...................................................... 2
- RT 1211, Radiologic Procedures Laboratory .................................... 1
- RT 1223, Principles of Exposure ..................................................... 3
- RT 1232, Clinical Practicum I ............................................................ 2

1st Spring
- RT 1303, Advanced Radiologic Procedures .................................... 3
- RT 1311, Advanced Radiologic Procedures Laboratory ............... 1
- RT 2122, Principles of Exposure II .................................................. 2
- RT 3333, Clinical Practicum VI ....................................................... 3
- RT 2121, Principles of Exposure II Laboratory ............................... 1
- RT 1332, Clinical Practicum II ......................................................... 2

2nd Summer I
- RT 2104, Clinical Practicum III ...................................................... 4

2nd Summer II
- RT 2114, Clinical Practicum IV ...................................................... 4

2nd Fall
- RT 2202, Radiologic Specials .......................................................... 2
- RT 2212, Principles of Exposure ..................................................... 2
- RT 3223, Clinical Practicum V ......................................................... 3

2nd Spring
- RT 3312, Radiology ................................................................. 2
- RT 3113, Radiologic Pathophysiology ........................................... 3
- RT 3332, Clinical Radiologic-Pharmacology ................................. 3

The following is a required support course for the degree:
- PSY 2013, Introduction to Psychology ........................................... 3

Admission Requirements for BSRS Degree Imaging Specialist Emphasis

To be admitted to the Bachelor of Science in Radiologic Sciences program, students must meet one of the requirements listed below:

1. Completion of a Joint Review committee on Education in Radiologic Technology (JRCERT) approved Associate Degree Program in Radiologic Technology OR

2. Receive credit by articulation. Registered radiologic technologists who do not possess an Associate degree may receive 47 radiologic technology credit hours by providing documentation of the following three requirements:
   a. graduation from a JRCERT approved school of Radiologic Technology
   b. a passing score on the American Registry of Radiologic Technologists certification examination
   c. successful academic performance on 6 semester hours of the BSRS Program.

When all three requirements have been met, the Chair of the Department of Radiologic Sciences will formally notify the Office of Admissions and Records and credit will be recorded on the student's transcript for 47 hours of ASU Radiologic Technology 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 for the ARRT examination in Radiation Therapy. Selection into the program is based on:

1. Cumulative grade point average
2. Selected course grades
3. Interview
4. Selection preference is given to those who are near successful completion of the General Education Curriculum and the Radiologic Sciences core courses

The above criteria are converted to a point system. ASU graduates receive extra points when calculating total scores.

Admission Requirements for BSRS Degree Diagnostic Medical Sonography Emphasis

The Diagnostic Medical Sonography Program is accredited by the Joint Review Committee on Education in Diagnostic Medical Sonography. This major is designed to produce competent and compassionate entry-level sonographers for the practice of diagnostic medical sonography. To complete the major in this area, student must complete the 50 hours of the program. No minor is required. Upon completion of the baccalaureate degree students are prepared to sit for the American Registry of Diagnostic Medical Sonographers (ARDMS) examinations in ultrasound physics and instrumentation, abdomen, obstetrics/gynecology, vascular physics, and vascular technology.

Applicants to the Diagnostic Medical Sonography Program are selected by the Admissions Committee using the following criteria:

1. Cumulative grade point average
2. Selected course grades
3. Personal essay completed at time of orientation session
4. Selection preference is given to those who are near successful completion of the General Education Curriculum and the Radiologic Sciences core courses

The above criteria are converted to a point system.

Admission Requirements for BSRS Degree Nuclear Medicine Technology Emphasis

The Nuclear Medicine Technology program is a joint accreditation arrangement between ASU and Methodist Healthcare of Memphis and Baptist Healthcare in Little Rock, accredited by the Joint Review Committee on Education in Nuclear Medicine Technology. The major is designed to provide the student with the skills necessary to become a nuclear medicine technologist. To complete the major in this area, students must complete the 31 hours of the program. Didactic (class room) courses will be held in Memphis, while clinical courses will be held in Jonesboro. To be eligible to apply to the Nuclear Medicine Program students must either:

- be a graduate of a JRCERT program in radiologic technology or
- possess another healthcare associate or bachelors degree or
- possess a bachelors degree in a scientific area

Applicants to the Nuclear Medicine Technology Program are selected by the Admissions Committee, composed of faculty from ASU and Methodist Healthcare, using the following criteria:

1. Cumulative grade point average
2. Selected course grade
3. Interview

Upon completion of the baccalaureate degree students are prepared to sit for the ARRT or CNMT examination in Nuclear Medicine Technology.
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 BRSRS degree and at least two courses in the specialty from ASU to complete the requirements for a major toward the BRSRS 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 adviser for further information.

The specific courses required for each major and minor are:

<table>
<thead>
<tr>
<th>General Education Requirements:</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>

<table>
<thead>
<tr>
<th>Radiologic Sciences Core (14 hours)</th>
<th>Sem.Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 4102, Special Problems in Clinical Lab Science</td>
<td>2</td>
</tr>
<tr>
<td>RS 3133, Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>RS 3142, Advanced Imaging and Therapy I</td>
<td>2</td>
</tr>
<tr>
<td>RS 4112, Radiologic Research Analysis</td>
<td>2</td>
</tr>
<tr>
<td>RS 4852, Advanced Radiologic Pathology I</td>
<td>2</td>
</tr>
<tr>
<td>RS 4343, Radiologic Administrative Concepts OR RS 4333, Radiologic Education Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Imaging Specialist Emphasis (27-31 hours)</th>
<th>Sem.Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 3122, Legal and Regulatory Environment of Radiology</td>
<td>2</td>
</tr>
<tr>
<td>RS 3152, Advanced Imaging and Therapy II</td>
<td>2</td>
</tr>
<tr>
<td>RS 3811, Radiologic Quality Management Administration</td>
<td>1</td>
</tr>
<tr>
<td>RS 4862, Advanced Radiologic Pathophysiology II</td>
<td>2</td>
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<tr>
<td>Select two (2) of the following specialties:</td>
<td></td>
</tr>
<tr>
<td>Cardiovascular Interventional Technology (8 hours)</td>
<td></td>
</tr>
<tr>
<td>RS 4423, Cardiovascular Interventional Procedures and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>RS 4442, Cardiac Physiology and Procedures</td>
<td>2</td>
</tr>
<tr>
<td>RS 4451, Cardiovascular Interventional Clinical Education I</td>
<td>1</td>
</tr>
<tr>
<td>RS 4462, Cardiovascular Interventional Clinical Education II</td>
<td>2</td>
</tr>
<tr>
<td>Mammography and Bone Densitometry (5 hours)</td>
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</tr>
<tr>
<td>RS 4532, Mammography Procedures &amp; Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>RS 4541, Mammography Clinical Education I</td>
<td>1</td>
</tr>
<tr>
<td>RS 4552, Mammography Clinical Education II</td>
<td>2</td>
</tr>
<tr>
<td>Computed Tomography (7 hours)</td>
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</tr>
<tr>
<td>RS 4622, Computed Tomography Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>RS 4632, Computed Tomography Procedures</td>
<td>2</td>
</tr>
<tr>
<td>RS 4641, Computed Tomography Clinical Education I</td>
<td>2</td>
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<tr>
<td>RS 4652, Computed Tomography Clinical Education II</td>
<td>2</td>
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<tr>
<td>Magnetic Resonance Imaging (9 hours)</td>
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<tr>
<td>RS 4713, Magnetic Resonance Imaging Physics and Instrumentation</td>
<td>3</td>
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<tr>
<td>RS 4723, Magnetic Resonance Imaging Procedures</td>
<td>3</td>
</tr>
<tr>
<td>RS 4751, Magnetic Resonance Imaging Clinical Education I</td>
<td>2</td>
</tr>
<tr>
<td>RS 4762, Magnetic Resonance Imaging Clinical Education II</td>
<td>2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Radiation Therapy Emphasis (41 hours)</th>
<th>Sem.Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>RST 4513, Healthcare Administration OR RS 4343, Radiologic Administrative Concepts</td>
<td>3</td>
</tr>
<tr>
<td>RST 4203, Introduction to Radiation Therapy and Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>RST 4214, Radiation Therapy Principles and Practice I</td>
<td>4</td>
</tr>
<tr>
<td>RST 4313, Radiation Physics</td>
<td>3</td>
</tr>
<tr>
<td>RST 4513, Radiation Therapy Clinical Education I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>RST 4204, Radiation Therapy Principles and Practice II</td>
<td>4</td>
</tr>
<tr>
<td>RS 4333, Applied Radiation Biology</td>
<td>3</td>
</tr>
<tr>
<td>RST 4323, Radiation Physics II</td>
<td>3</td>
</tr>
<tr>
<td>RST 4523, Radiation Therapy Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td></td>
</tr>
<tr>
<td>RST 4204, Radiation Therapy Principles and Practice III</td>
<td>4</td>
</tr>
<tr>
<td>RST 4413, Radiation Protection, Safety, and Quality Management</td>
<td>3</td>
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<tr>
<td>RST 4422, Radiation Therapy Clinical Treatment Planning</td>
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<tr>
<td>RST 4533, Radiation Therapy Clinical Education I</td>
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<table>
<thead>
<tr>
<th>Diagnostic Medical Sonography Emphasis (50 hours)</th>
<th>Sem.Hrs.</th>
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<tbody>
<tr>
<td><strong>1st Summer</strong></td>
<td></td>
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<tr>
<td>RSU 4102, Introduction to Ultrasound</td>
<td>2</td>
</tr>
<tr>
<td>RSU 4112, Sectional Anatomy - Sonography</td>
<td>2</td>
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<tr>
<td>RSU 4122, Small Parts</td>
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<tr>
<td>RSU 4134, Introduction to Sonography Lab</td>
<td>4</td>
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<tr>
<td><strong>1st Fall</strong></td>
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<tr>
<td>RSU 4113, Physics and Instrumentation I</td>
<td>3</td>
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<tr>
<td>RSU 4223, Abdomen Sonography AND RSU 4222, Abdomen Sonography Lab</td>
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<tr>
<td>RSU 4513, Ultrasound Clinical I</td>
<td>3</td>
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<tr>
<td><strong>2nd Summer, 1st Session</strong></td>
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<tr>
<td>RSU 4534, Ultrasound Clinical III</td>
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<tr>
<td><strong>2nd Summer, 2nd Session</strong></td>
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<tr>
<td>RSU 4544, Ultrasound Clinical IV</td>
<td>4</td>
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<td><strong>2nd Fall</strong></td>
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<tr>
<td>RSU 4413, Vascular Sonography AND RSU 4422, Vascular Sonography Lab</td>
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<td>RSU 4443, Vascular Physics</td>
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<tr>
<td>RSU 4552, Ultrasound Clinical V</td>
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<table>
<thead>
<tr>
<th>Nuclear Medicine Technology Emphasis (46 hours)</th>
<th>Sem.Hrs.</th>
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<tbody>
<tr>
<td><strong>Radiologic Sciences Support Courses</strong></td>
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<tr>
<td>RS 3122, Legal and Regulatory Environment of Radiology</td>
<td>2</td>
</tr>
<tr>
<td>RS 4862, Advanced Radiologic Pathophysiology II</td>
<td>2</td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>RS 4343, Radiologic Administrative Concepts</td>
<td>3</td>
</tr>
<tr>
<td>RSN 4213, Nuclear Medicine Physics and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>RSN 4313, Nuclear Medicine Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>RSN 4523, Nuclear Medicine Clinical Education I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>RSN 4113, Nuclear Medicine Pharmacy</td>
<td>3</td>
</tr>
<tr>
<td>RSN 4323, Nuclear Medicine Procedures II</td>
<td>3</td>
</tr>
<tr>
<td>RSN 4523, Nuclear Medicine Clinical Education II</td>
<td>3</td>
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<tr>
<td><strong>Summer</strong></td>
<td></td>
</tr>
<tr>
<td>RSN 4535, Nuclear Medicine Clinical Education III</td>
<td>5</td>
</tr>
</tbody>
</table>
**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), Isaason, McDougal, McLarty (ASU-Mountain Home), R. Miller, Nix, Owens, Persell, Pfriemer, Shafer (West Memphis), Sifth, Smith (ASU-Beebe), Stacy, 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 eastern and western 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 NRS 3391). The BSN program has a specially designated 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 unencumbered license to practice Nursing in the state of Arkansas.

**DISTANCE LEARNING PROGRAM:** The Department of Nursing offers nursing courses and programs by compressed video to selected rural Arkansas sites: MidSouth Community College (West Memphis); 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

**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, NRSP 4323, and NRSP 4366 or NRSP 4336. The approximate cost is $35.00. 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>CS 1043, Introduction to Computers; OR CIT 1503, Microcomputer Applications; OR any comparable three-hour computer course</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1003 and 1013, Composition I and II</td>
<td>6</td>
</tr>
<tr>
<td>HIS 2763 or 2773, U.S. History To or Since 1876; OR POSC 2103, Introduction to United States Government</td>
<td>3</td>
</tr>
<tr>
<td>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 Human Anatomy and Physiology II Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 19

**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>NRS 1235, Nursing I</td>
<td>5</td>
</tr>
<tr>
<td>NRS 1252, Role Development 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>5</td>
</tr>
<tr>
<td>NRS 2252, Role Development II</td>
<td>2</td>
</tr>
<tr>
<td>NRS 2262, Role Development III</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3392, Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NRSP 1222, Fundamentals of Nursing Practice</td>
<td>2</td>
</tr>
<tr>
<td>NRSP 1243, Clinical Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NRSP 2224, Clinical Practicum</td>
<td>4</td>
</tr>
<tr>
<td>NRSP 2244, Clinical Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NRSP 2272, Role Development Practicum</td>
<td>2</td>
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<tr>
<td>NRSP 3391, Health Assessment Practicum</td>
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</tr>
</tbody>
</table>

Total 43

**Required Support Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2103 and 2101, Microbiology for Nursing and Allied Health and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PSY 2013, Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2003 and 2001, Human Anatomy and Physiology II AND Human Anatomy and Physiology II Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 11

**Nursing**

**Associate in Applied Science in Nursing**

**Mountain Home and West Memphis**

To the following thirteen hours must be completed prior to acceptance into the program:

- ZOOL 2003/2001, Human Anatomy and Physiology
- ENG 1003, Composition I (must have a “C” or better)
- PSY 2013, Introduction to Psychology
- MATH 1023, College Algebra (or higher level math)
B. The following courses must be completed prior to taking NRS 1235, Nursing I and NRSP 1243, Clinical Practicum I:
NRS 3392, Health Assessment
NRSP 3391, Health Assessment Practicum
ZOOI 1043, Introduction to Computers, or CIT 1503, Microcomputer Applications
C. The following courses must be completed prior to taking NRS 2235, Nursing III and NRSP 2244, Clinical Practicum III:
BIOI 2101, Microbiology for Nursing and Allied Health with Lab
ENG 1013, Composition II (must have a "C" or better)
D. The following must be completed prior to graduation:
HIST 2763 or HIST 2773, U.S. History to 1815 or POSC 2103, Introduction to U.S. Government
E. A minimum grade of "C" is required in all nursing course for progression.
F. A minimum grade of "C" in all lab science and mathematics courses for an Associate in Applied Science in Nursing degree is required 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 advisor for a plan that best meets individual needs.

**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>Major Requirements</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOI 2101, Micro BioI for Nurs &amp; Allied Hlth</td>
<td>3</td>
<td>BIOI 2101, Micro BioI for Nurs &amp; Allied Hlth Lab</td>
</tr>
<tr>
<td>BIOI 2101, Micro BioI for Nurs &amp; Allied Hlth Lab</td>
<td>5</td>
<td>NRS 2215, Nursing II</td>
</tr>
<tr>
<td>NRS 1235, Nursing I</td>
<td>5</td>
<td>NRS 2252, Role Development II</td>
</tr>
<tr>
<td>NRS 1252, Role Development I</td>
<td>2</td>
<td>NRSP 2224, Clinical Practicum III</td>
</tr>
<tr>
<td>NRSP 1424, Clinical Practicum I</td>
<td>3</td>
<td>NRSP 2272, Role Development Practicum</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:
CIT 1503, Microcomputer Applications or CS 1043, Introduction to Computers
ENG 1003, Composition I (grade of "C" or better)
MATH 1103, College Algebra (or higher level math course)
NRS 3392, Health Assessment
NRSP 3391, Health Assessment Practicum
PSY 2013, Introduction to Psychology
ZOOI 2003/2001, Anatomy and Physiology II with Lab
ZOOI 2013/2011, Anatomy and Physiology II with Lab

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 completed prior to NRS 2235 and NRSP 2244:
BIOI 2101, Microbiology for Nursing and Allied Health Laboratory
ENG 1013, Composition II (grade of "C" or better)

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

**Major in Nursing**

**Bachelor of Science in Nursing**

**General Education Requirements:**
Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees 40-49

**Specific General Education Requirements:**
Students with this major must take the following:
BIOI 2101, Microbiology for Nursing and Allied Health
CHEM 1011, General Chemistry Laboratory AND CHEM 1013, General Chemistry I
MATH 1103, College Algebra
PSY 2013, Introduction to Psychology
SOC 2213, Principles of Sociology

**Major Requirements:**
Sem. Hrs.
NRS 2314, Concepts of Nursing 4
NRS 2334, Health Promotion and Introduction to Acute Care Nursing 4
NRS 3312, Introduction to Nursing Research 2
NRS 3315, Acute Care Nursing I 5
NRS 3343, Clinical Pharmacology and Nursing Management 3
NRS 3345, Acute Care Nursing II 5
NRS 3352, Health Assessment 2
NRS 4312, Chronic Illness and Rehabilitation Nursing 2
NRS 4342, Professional Nursing—Community 3
NRS 4355, Critical Care and Emergency Nursing 5
NRS 4362, Professional Role Development 3
NRS 4543, Health Care Administration 2
NRS Elective (upper level course) 3
NRSP 1243, Foundations of Nursing Practice 2
NRSP 2234, Nursing Care II 3
NRSP 3325, Nursing Care III 5
NRSP 3355, Nursing Care IV 5
NRSP 3391, Health Assessment Practicum 1
* NRSP 4336, Nursing Care V 6
* NRSP 4366, Nursing Care Systems VI 6

**Required Support Courses:**
CHEM 1011, Introduction to Organic and Biochemistry Laboratory 1
CHEM 1033, Introduction to Organic and Biochemistry 3
PSY 3103 and 3101, Quantitative Methods for Behavioral Sciences and Quantitative Methods Laboratory 4
SOC 3393 and 3391, Social Statistics and Social Statistics Methods Laboratory 4
ZOOI 2003, Human Anatomy and Physiology I and ZOOI 2001, Human Anatomy and Physiology II Lab 4
ZOOI 2013 and 2011, Human Anatomy and Physiology II and Human Anatomy and Physiology II Lab 4
ZOOI 3143, Pathophysiology or NRS 3023, Interdisciplinary Clinical Pathophysiology 3

**Special Requirements for qualified RNs who have at least 1000 hours of work experience following RN licensure:**
* RNs will take NRS 4311 and NRSP 4323 and 4363 in place of NRS 4336 and 4366 (Total degree hours will be 131.)

**Total** 129-132
**(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 unencumbered LPN License to practice in Arkansas
2. Overall GPA of 2.5
3. Current CPR certification
4. Acceptable immunization status
5. Completed physical examination
6. Completion of all lab sciences and mathematics courses required for a baccalaureate degree in nursing, with a "C" or better in each class.
7. Completion of required support courses.

**Required Support Courses prior to Junior Year:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 2101</td>
<td>Microbiology for Nursing and Allied Health Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1011</td>
<td>General Chemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1031</td>
<td>Intro. to Organic and Biochemistry Lab.</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1033</td>
<td>Intro. to Organic and Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>ENG 1003</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 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>NRS 3390</td>
<td>Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3391</td>
<td>Health Assessment Practicum</td>
<td>1</td>
</tr>
<tr>
<td>PSY 3101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Principles of Sociology</td>
<td>3</td>
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<tr>
<td>ZOOL 2011</td>
<td>Human Anatomy and Physiology I Lab.</td>
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<tr>
<td>ZOOL 2013</td>
<td>Human Anatomy and Physiology I</td>
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<tr>
<td>ZOOL 2001</td>
<td>Human Anatomy and Physiology II Lab.</td>
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<tr>
<td>ZOOL 2003</td>
<td>Human Anatomy and Physiology II</td>
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**Recommended General Education Credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY 3103</td>
<td>Quantitative Methods of Behavior Science</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3381</td>
<td>Social Statistics Laboratory</td>
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<tr>
<td>SOC 3383</td>
<td>Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1003</td>
<td>Composition I</td>
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<tr>
<td>ENG 1004</td>
<td>Composition II</td>
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</table>

**General Education Critical Thinking Option**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2101</td>
<td>Microbiology for Nursing and Allied Health Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1011</td>
<td>General Chemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1031</td>
<td>Intro. to Organic and Biochemistry Lab.</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1033</td>
<td>Intro. to Organic and Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>ENG 1003</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 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>NRS 3390</td>
<td>Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3391</td>
<td>Health Assessment Practicum</td>
<td>1</td>
</tr>
<tr>
<td>PSY 3101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2011</td>
<td>Human Anatomy and Physiology I Lab.</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2013</td>
<td>Human Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2001</td>
<td>Human Anatomy and Physiology II Lab.</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2003</td>
<td>Human Anatomy and Physiology II</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

**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. Completed physical examination form

**Required Support Courses prior to Senior Level:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 3301</td>
<td>Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3302</td>
<td>Health Assessment Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NRS 3312</td>
<td>Nursing Research</td>
<td>2</td>
</tr>
</tbody>
</table>

**Senior Level:**

**Theory Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4311</td>
<td>Clinical Pharmacology and Nursing Management: Tertiary</td>
<td>1</td>
</tr>
<tr>
<td>NRS 4312</td>
<td>Chronic Illness and Rehabilitation Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NRS 4343</td>
<td>Professional Nursing: Community</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4350</td>
<td>Critical Care and Emergency Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4362</td>
<td>Professional Role Development</td>
<td>5</td>
</tr>
<tr>
<td>NRS 4373</td>
<td>Professional Nursing: Management</td>
<td>3</td>
</tr>
<tr>
<td>NRS 3312</td>
<td>Nursing Research</td>
<td>2</td>
</tr>
</tbody>
</table>

**Clinical Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4323</td>
<td>Nursing Care VII: Community and Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4363</td>
<td>Nursing Care VIII: Critical Care and Management</td>
<td>3</td>
</tr>
</tbody>
</table>
### Nursing Bachelor of Science (BSN)

Following is one suggested sequence in which requirements for the Bachelor of Science in Nursing degree may be completed. Students should consult with their advisor for a plan that best meets individual needs.

#### Freshman Year (Pre-Nursing)

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1003</td>
<td>BIOL 2101</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>BIOL 2103</td>
</tr>
<tr>
<td>ZOOL 2001</td>
<td>ENG 1013</td>
</tr>
<tr>
<td>ZOOL 2003</td>
<td>HIST 2763 or HIST 2773 or POSC 2103</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>PSY 2013</td>
</tr>
<tr>
<td>Global Issues</td>
<td>ZOOL 2111</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2123</td>
</tr>
</tbody>
</table>

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 laboratory sciences
A minimum grade of "C" earned in the required math and science courses

#### Sophomore Year (Admission to BSN Program)

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1013 and CHEM 1011</td>
<td>CHEM 1033 and CHEM 1031</td>
</tr>
<tr>
<td>NRS 2314</td>
<td>NRS 2334</td>
</tr>
<tr>
<td>NRS 2322</td>
<td>NRS 2343</td>
</tr>
<tr>
<td>PE 1002</td>
<td>NRS 3392</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>NRS 3381</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>Humanities</td>
</tr>
</tbody>
</table>

The following must be completed before enrollment in NRS 3315 and NRS 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, 2001, 2013 and 2011.

#### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 3315</td>
<td>NRS 3312</td>
</tr>
<tr>
<td>NRS 3343</td>
<td>NRS 3345</td>
</tr>
<tr>
<td>NRS 3325</td>
<td>NRS 3355</td>
</tr>
<tr>
<td>PSY 3101 and PSY 3103 or SOC 3383 and SOC 3381</td>
<td>ZOOL 3143 or NRS 3023</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4312</td>
<td>NRS 4355</td>
</tr>
<tr>
<td>NRS 4336</td>
<td>NRS 4543</td>
</tr>
<tr>
<td>NRS 4343</td>
<td>NRS Upper level elective</td>
</tr>
<tr>
<td>NRS 4362</td>
<td>NRS 4366</td>
</tr>
<tr>
<td>Enhancement</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

Bachelor’s 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.

### Bachelor of Social Work (BSW)

#### General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Issues</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>4</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>
</tbody>
</table>

#### Specific General Education Requirements:

Students with this major must take the following:
- BIOL 1001, Biological Science Laboratory AND BIOL 1003, Biological Science
- POSC 2102, US Government
- PSY 2013, Introduction to Psychology

#### Major Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 4533, Psychology of the Abnormal</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3353, Minority Groups</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3381, Social Statistical Methods Laboratory AND SOC 3383, Social Statistical Methods</td>
<td>4</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 2223, 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 4263, 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>

*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.

#### Minor in Homeland Security and Disaster Preparedness

The minor in Homeland Security and Disaster Preparedness is a multidisciplinary program offered in the College of Nursing and Health Professions and the College of Humanities and Social Sciences. The structure of the minor provides students with the skills to specialize in each of the three tracks. The introductory and capstone course provide the common framework necessary for the integration of these fields and the cooperative efforts of the specialists working within them.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4503, Principles of Disaster and Emergency Preparedness</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4553, Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>Choice of three (3) courses from within a single track</td>
<td>9</td>
</tr>
</tbody>
</table>

#### Track 1: Healthcare in Homeland Security and Emergency Preparedness

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 4513, Physical Care of Victims of Chemical, Biological, Radiological and Nuclear Disasters</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4533, Evidence Based Practice – Operations and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Track 2: Managing Disaster and Crisis

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 4133, Intergovernmental Relations – Federalism in an Era of Insecurity</td>
<td>3</td>
</tr>
<tr>
<td>POSC 4513, Disaster Response – Operations and Management</td>
<td>3</td>
</tr>
<tr>
<td>PR 4603, Crisis Communication</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4343, GIS for Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Track 3: Social, Cultural & Political Factors

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 3363, Sociology of Religion or SW 4363, Religion and Spirituality in Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4003, Perspectives on Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4663, Sociology of Disasters</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4663, Terrorism as a Social Movement</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 15

Choice of one (1) course from one of the other two tracks

Total 3

Total 18

### Note

*Approved Electives:*

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>* 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.</td>
<td>14-29</td>
</tr>
<tr>
<td>Total</td>
<td>124</td>
</tr>
</tbody>
</table>
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:
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)
Fine Arts (3 hrs)

Spring Semester (15 hrs)
BIOL 1001, Biology I
BIOL 1003, Biology
ENG 1013, Composition II
PE 1002, Concepts of Fitness or NRS 2203, Basic Human Nutrition
POSC 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)

Spring Semester (18 hrs)
ANTH 2233, Intro to Cultural Anthropology
ECON 2313, Principles of Macroeconomics
ENG 2013, Intro to Lit II
SOC 2223, Social Problems
Electives (6 hrs)

Junior Year
Fall Semester (16 hrs)
PSY 4533, Abnormal Psychology
SOC 3381, Social Statistics Lab
SOC 3383, Social Stats Methods
SW 3303, HBSE I
Electives (6 hrs)

Spring Semester (15 hrs)
SOC 3353, Minority Groups
SOC 4293, Methods of Social Research
SW 3353, Social Work Practice I
SW 3333, HBSE II
Electives (3 hrs)

Senior Year
Fall Semester (15 hrs)
SW 4263, Social Work Practice II
SW 4303, Social Work Practice III
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
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.

DEPARTMENT OF HEALTH PROFESSIONS

Health Professions (HP)

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. Special course fees may apply. Fall.

2013. Medical Terminology  Basic language related to medical science and the health professions, word analysis, construction, spelling, definitions. Special course fees may apply. Fall, Spring.

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, and a survey of career opportunities in the health sciences. Additional enrollment will be at the discretion of the instructor. Special course fees may apply. Fall, Spring.

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. Special course fees may apply. Spring.

4803. Introduction to Geriatrics  Provides the learner with an introduction of geriatrics through a multidisciplinary approach. Topics explored will encompass how people age physically and how this aging affects other dimensions of life. Special course fees may apply. Prerequisites, ZOOL 2011, ZOOL 2013. Enrollment will be limited. Enrollment preference will be given to students in the Sports Medicine and Athletic Training Program. Additional enrollment will be at the discretion of the instructor. Special course fees may apply. Fall, Spring.

Clinical Laboratory Science (CLS)

1511. Principles of Clinical Laboratory Science Laboratory  Development of laboratory skills techniques which are applicable in all clinical laboratory areas. Open to other students who may have an interest in the clinical laboratory profession. Corequisite, CLS 1512. Fall, Spring.

1512. Principles of Clinical Laboratory Science  Introduction to concepts utilized throughout all the clinical laboratory areas. Open to other students who may have an interest in the clinical laboratory profession. Corequisite, CLS 1511. Fall, Spring.


1531. Urine and Body Fluid Analysis Laboratory  Performance of body fluid testing procedures necessary to function in a clinical body fluid laboratory. Corequisite, CLS 1521. Spring.
2511. Medical Parasitology Laboratory  Performance of laboratory procedures necessary to function in a clinical parasitology laboratory. Corequisite, CLS 2512. Summer.

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. Summer.

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, CLS 2543, CHEM 1011, CHEM 1013. Fall, Spring, Summer.

2521. Hematology I Laboratory  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. Fall.

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. Fall.

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, CLS 1531, CLS 2521, CLS 2523. Fall, Spring, Summer.

2531. Medical Microbiology I Laboratory  Performance of laboratory procedures necessary to function in the microbiology section of a clinical laboratory. Prerequisite, BIOL 2101, BIOL 2103. Corequisite, CLS 2533. Fall.

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. Fall.

2541. Clinical Chemistry I Laboratory  Laboratory methods and techniques for the analysis of body fluids including routine assessment of body metabolism, renal function, liver function, electrolytes and acid and base balance, enzymes, and other analytes. Corequisite, CLS 2543. Pre or corequisite, CLS 1511, CLS 1512, CHEM 1013, CHEM 1011. Spring.

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, acid and base balance, enzymes, and other routine assessment. Corequisite, CLS 2541. Pre or corequisites, CLS 1511, CLS 1512, CHEM 1013, CHEM 1011. Spring.

2551. Hematology Disorders for the Clinical Laboratory Technician  Discussion of the basic principles of hematologic disorders, causes, laboratory results, and treatment. Prerequisites, CLS 2523 and CLS 2521. Spring.


2563. Immunohematology I  Discussion of the principles involved in compatibility testing, and antibody identification, donor blood acquisition and preparation, and a basic discussion of relevant diseases. Prerequisites, CLS 2523, CLS 2521, CLS 2573, CLS 2571, ZOOL 2013 and ZOOL 2011. Corequisite, CLS 2561. Spring.

2571. Clinical Immunology and Serology Laboratory  Performance of laboratory procedures necessary to function in the serology section of a clinical laboratory. Prerequisites, ZOOL 2001, ZOOL 2003, Corequisite, CLS 2573. Fall.


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. Spring.

3221. Hematology II Laboratory  Performance of advanced laboratory procedures, recognition of cells and lab values related to hematological disorders, development of cases related to specified hematological disorders. Prerequisites, CLS 2523 and CLS 2521. Corequisite, CLS 3223. Fall.

3223. Hematology II  In depth discussion of hematological disorders, causes, laboratory results, and treatment. Prerequisites, CLS 2523 and CLS 2525. Corequisite, CLS 3521. Fall.

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. Fall.

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, CLS 2512, CLS 2531, CLS 2533. Fall, Spring, Summer.

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, completion of a CLT or MLT AAS degree, or completion of 36 credit hours in the CLS program to include at least one clinical practicum. Fall.

3524. Clinical Pracitcum 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, CLS 2563, CLS 2571, CLS 2573. Fall, Spring, Summer.

4013. Molecular Diagnostics  This course will identify important aspects of molecular based hematologic, oncology testing, microbiology testing, and pharmacogenetics, as well as addressing proteomics and genomics in the clinical laboratory environment. Permission of instructor required. Prerequisites, CLS 2571, CLS 2573, CLS 2531, CLS 2533, CHEM 3101, and CHEM 3103. Spring.

410V. 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. Fall, Spring.

4111. Clinical Chemistry II Laboratory  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 and base balance, enzymes, and other routine assessments. Prerequisites, CHEM 1013, CHEM 1011, CLS 2543, CLS 2541. Corequisite, CLS 4113. Fall.
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, acid and base balance, enzymes, endocrinology and therapeutic drug monitoring. Prerequisites, CHEM 1013, CHEM 1011, CLS 2543, CLS 2541. Corequisite, CLS 4111. Fall.

4174. Clinical Practicum I Clinical laboratory experience in chemistry and special chemistry. Prerequisite, admission to clinical program. Permission of instructor required. Fall, Spring, Summer.

4184. Clinical Practicum II Clinical laboratory experience in hematology and coagulation and urinalysis. Prerequisite, admission to clinical program. Permission of instructor required. Fall, Spring, Summer.

4194. Clinical Practicum III Clinical laboratory experience in microbiology and parasitology. Prerequisite, admission to clinical program. This course open only to CLS Majors with permission of instructor. Fall, Spring, Summer.

4204. Clinical Practicum IV Clinical laboratory experience in immunohematology and serology. Prerequisite, admission to clinical program. Permission of instructor required. Fall, Spring, Summer.

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. Spring.

4212. Interpreting Laboratory Data This course is an overview that explains why laboratory tests are ordered and how interpretation of laboratory data is used in the care and welfare of patients. This course is open only to CLS majors. Permission of instructor required. Spring.

4214. Clinical Practicum V Clinical laboratory experience in management and clinical electives. Prerequisite, Admission to the clinical program and completion of CLS 4174, CLS 4184, CLS 4194, CLS 4204. This course open only to CLS Majors. Fall, Spring, Summer.

4331. Immunohematology II Laboratory Performance procedures necessary to solve intermediate to advanced problems in a clinical blood bank. Prerequisites, CLS 2523, CLS 2521, CLS 2561, CLS 2563. Corequisite, CLS 4333. Spring.

4333. Immunohematology II Discussion of advanced theory related to all facets of blood banking. Emphasis on interpreting cases and identifying appropriate problem solving protocols. Prerequisites, CLS 2523, CLS 2521, CLS 2561, CLS 2563. Corequisite, CLS 4331. Spring.

4441. Medical Microbiology II Laboratory Performance of complex laboratory procedures in the clinical microbiology laboratory. Prerequisites, CLS 2533 and CLS 2531. Corequisite, CLS 4443. Spring.

4443. Medical Microbiology II Discussion of mechanisms of pathogenicity, quality management, nosocomial infections, specimen collection and processing, automation and instrumentation, molecular techniques, and medical microbiology in patient care. Covers the theoretical elements of related laboratory procedures. Prerequisites, CLS 2533 and CLS 2531. Corequisite, CLS 4441. Spring.

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, monotonous speech, harsh, nasal, or breathy voice, not using pitch inflections to carry meaning, and speaking too fast. Demand.

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 and 1 Human Anatomy and Physiology I and Lab prior to CD 2104 Anatomy and Physiology of Communication. Fall, Spring.


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. Ten hours of clinical observation required. Fall, Spring.

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. Fall, Spring.

3043. Speech Science A study underlying the human communication process including speech anatomy, production, transmission, and perception. Admission to the Communication Disorders program required. Prerequisite, CD 2103. Demand.

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. Summer.

3303. Normal Language Development Normal development of the oral communication process emphasizing phonological and syntactical development of children. Fall.


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. Fall.

3803. Service Delivery in Communication Disorders An introduction to speech language programs, their organization and administration. Fifteen hours of clinical observation required. Admission to the Communication Disorders program required. Fall.

4093. Neurological Bases of Human Communication A study of the structure and function of the nervous system as related to normal communication. Admission to the Communication Disorders program required. Fall.

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. Admission to the Communication Disorders program required. Spring.

4203. Organic Speech Disorders This course examines the characteristics of a number of organic disabilities that impact human communication. Included in this course are the primary etiologies of the disability, the salient symptoms of the disability, the real or potential impact of the disability on the development, use, and maintenance of communication, and the impact of the resulting communication disorders on the client life and family. Spring.

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. Admission to the Communication Disorders program required. Prerequisite, CD 4093 or permission of instructor. Spring.
4303. Language Intervention for Individuals with Mild Disabilities  Assessment procedures for evaluating language disorders and language intervention procedures for individuals with mild disabilities. Admission to the Communication Disorders program required. Prerequisite, CD 3303 or permission of instructor. Fall.

4403. Aural Rehabilitation  Method of instruction in auditory training, speech reading, and hearing aid orientation. Prerequisite, CD 3503 or permission of instructor. Spring.

4451. Introduction to Clinical Practice  Management of articulatory and language impaired client to include assessment, IEP and lesson plan development, and intervention. Admission to the Communication Disorders program required. Prerequisites, CD 3703, CD 3803, and CD 4303. Demand.

4502. Advanced Manual Communication  Management of articulatory and language impaired client to include assessment, IEP and lesson plan development, and intervention. Prerequisites, CD 3703, CD 3803, and CD 4303. Demand.

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. Fall.

4703. Articulation and Phonological Disorders  Characteristics of articulatory and phonologic disorders. Assessment and intervention of articulatory and phonologic disorders. Admission to the Communication Disorders program required. Prerequisite, CD 2203. Fall.

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 fifty clock hours of clinical practice. Admission to the Communication Disorders program required. Prerequisites, CD 3803, CD 4303 and CD 4703. Spring.

4755. Practicum in Communication Disorders (10 hours credit)  Clinical experience with clients with speech, language, and acoustical disabilities. Must meet requirements for student teaching. Demand.

480V. 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. Demand.

489V. 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. Demand.

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. Fall, Spring.

400V. 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. Fall, Spring.

Physical Therapist Assistant (PTA)

2116. Patient Care Fundamentals  Introduction to fundamentals of physical therapy patient care. PTA courses are only open to students admitted to the professional program. Summer.

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. PTA courses are only open to students admitted to the professional program. Summer.

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. PTA courses are only open to students admitted to the professional program. Fall.

2223. Physical Agents and Massage  Basic principles and techniques of massage and application of modalities are presented. An investigation into the risk factors and pathophysiologic considerations associated with intergenerational diseases and conditions as well as aseptic technique and universal precautions is provided. PTA courses are only open to students admitted to the professional program. Fall.

2233. Neuromuscular PT I  Covers foundational science and theory behind the physical therapy management of patients with neuromuscular conditions. PTA courses are only open to students admitted to the professional program. Fall.

2243. Cardiopulmonary PT  Review of cardiopulmonary anatomy and physiology. Covers physical therapy assessment and rehabilitation of patients with cardiopulmonary disorders frequently seen by physical therapy in the clinical setting. PTA courses are only open to students admitted to the professional program. Fall.

2525. Clinical Education I  Four weeks of full time affiliation at one facility working under the supervision of an on site clinical instructor. Students integrate knowledge of basic sciences and interventions to practice treatment techniques in the clinical setting. Forty hours per week. PTA courses are only open to students admitted to the professional program. Prerequisite, instructor approval. Fall.

2303. Adult Neuromuscular PT II  Covers common interventions used in the physical therapy management of patients with neuromuscular conditions. PTA courses are only open to students admitted to the professional program. Spring.

2323. Seminar  Introduction to principles of administration, teaching and learning, and evidence based practice as they apply to physical therapy practice. Social responsibility, career development and lifelong learning are also discussed. PTA courses are only open to students admitted to the professional program. Spring.
2333. Clinical Education II Six weeks of full time affiliation at one facility working under the supervision of an on site clinical instructor. Students integrate knowledge of basic sciences and interventions to practice treatment techniques in the clinical setting. Twenty hours per week. PTA courses are only open to students admitted to the professional program. Prerequisite, PTA 2252 and instructor approval. Spring.

2343. Clinical Education III Six weeks of full time affiliation at one facility working under the supervision of an on site clinical instructor. Students integrate knowledge of basic sciences and interventions to practice treatment techniques in the clinical setting. Forty hours per week. PTA courses are only open to students admitted to the professional program. Prerequisite, PTA 2333 and instructor approval. Spring.

2413. Directed Study Guided investigation of a topic related to physical therapy selected in consultation with a member of the Physical Therapist Assistant faculty. PTA courses are only open to students admitted to the professional program. Prerequisite, Approval of the Program Coordinator. Demand.

Nuclear Medicine (RSN)

300V. Nuclear Medicine Program Exchange Clinical Preceptorship to be taken concurrently while enrolled in the nuclear medicine program. Fall, Spring, Summer.

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. Spring.

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. Fall.

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. Fall.

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. Spring.

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. Fall.

4523. Nuclear Medicine Clinical Education II The course will provide intermediate 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. Spring.

4533. Nuclear Medicine Clinical Education III 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 nuclear medicine procedures. Prerequisites, Good standing in Nuclear Medicine program. Summer.

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. Summer.

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. Summer.


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 RT 1121. Fall.


1222. Radiologic Physics This is an initial program course designed to provide students foundational concepts of physics associated with diagnostic radiology. Includes basics of electricity, electromagnetism, the x-ray imaging system, and radiologic quantities. Prerequisite, Admission to the Radiologic Technology program. Summer.

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, RT 1203, RT 1211, and RT 2133. Fall.

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, RT 1211, RT 1232 and ZOOL 1013 and ZOOL 1011. Spring.


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. Fall.

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. Spring.

200V. 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. Fall, Spring, Summer.

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. Summer.

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. Summer.

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. Spring.

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. Fall.

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. Fall.

3113. Radiologic Pathophysiology A general survey of medical and surgical diseases. Focus is on manifestations of disease related to all imaging modalities in radiology. Fall.

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, RT 2202, and RT 2212. Fall.


3323. 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. Spring.

3333. Clinical Practicum VI Continuation of RT 3223. Includes final competency evaluation. Prerequisite or corequisite, RT 3223, RT 3312, and RT 3332. Spring.

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. Spring, Summer.

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 ZOOL 2001. Fall, Spring, Summer.

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. Fall.

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. Spring.

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. Fall.

4112. 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. Fall.

4183. Leadership Practicum Experiential learning practicum with three radiological facilities that allows students to participate with department management the skills, concepts and theories studied in RS 4343. Prerequisite, RS 4343. Fall, Spring, Summer.

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 competency based approach to instruction and JRCERT guidelines. Pre or corequisite, PSY 3703 or permission of program director. Spring.

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. Fall.

436V. 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. Fall.

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. Spring.

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 radiography. Prerequisites, Good standing in the Radiologic Sciences program. Fall, Spring, Summer.

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 radiography. Prerequisites, RS 4451. Fall, Spring, Summer.

4541. Mammography 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. Fall, Spring, Summer.

4552. Mammography 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 4541. Spring, Summer, Fall.

4622. Computed Tomography Instrumentation Advanced concepts and applications of the instrumentation and operation of equipment used in the Computed Tomography suite. Understanding of the computer components, imaging theory, and equipment operation will be stressed. Fall.
4612. 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. Fall, Spring, Summer.

4613. 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, Admission to DMS program. Fall, Spring, Summer.

4713. Magnetic Resonance Imaging Physics and Instrumentation  This course provides equipment instrumentation information for magnetic resonance imaging studies. Prerequisites, None. Fall, even.

4714. Magnetic Resonance Imaging Procedures  This course provides clinical procedure information for magnetic resonance imaging studies. Prerequisites, Good standing in the Radiologic Sciences program. Spring, odd.

4815. 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. Fall, Summer.

4816. 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. Spring, Summer.

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 practitioners role in the health care delivery system. Prerequisites, Admission to the Radiation Therapy program. Fall.

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. Fall.

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. Spring.

4225. 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. Summer.

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. Summer.

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. Fall.

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. Fall.

4413. Radiation Protection, Safety, and Quality Management  This course will present principles of radiation protection and safety for the radiation therapist. Prerequisites, RST 4214 Radiation Therapy Principles and Practice I and good standing in the Radiation Therapy program. Spring.

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. Fall.

4523. Radiation Therapy Clinical Education II  The course will have immediate level 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. Fall, Summer.

4533. Radiation Therapy Clinical Education III  The course will examine and evaluate the management of specific neoplastic disease. Prerequisites, RST 4413 Radiation Therapy Principles and Practice II and good standing in the Radiation Therapy program. Spring, Summer.

Diagnostic Medical Sonography (RSU)

4102. Introduction to Ultrasound  This course will provide an overview of the foundations of diagnostic medical sonography and the practitioners role in the health care delivery system. Prerequisites, Admission to the Diagnostic Medical Sonography program. Fall.

4112. Sectional Anatomy Sonography  Knowledge of anatomical layering and review body systems. Sonographic terminology, organ and organ system relationships, and directional terminology will also be focused upon in this course. Prerequisite, Admission to DMS program. Summer.
4122. Small Parts Sonography Knowledge of anatomy pathology of small parts including male pelvis, breast, thyroid, and musculoskeletal sonography. Prerequisites Admission to DMS program. Summer.

4134. Introduction to Sonography Laboratory Clinical application knowledge of sonography equipment, sonographic terminology, and anatomy pathology of small parts. Students will participate in directed scanning exercises and simulator scanning to develop the critical thinking skills needed in practice of sonography. Prerequisites Admission to DMS program. Summer.

4213. Ultrasound Physics and Instrumentation I This course will provide theoretical foundations and clinical applications of ultrasound physics and instrumentation, including Doppler principles, performance testing, and bioeffects. Prerequisites, Grade of C or better in the DMS program. Fall.

4223. Abdominal Sonography I Specific anatomic and pathologic information necessary for the clinical practice of abdominal diagnostic medical sonography, including abdominal organs and organ systems, normal, abnormal appearances, and pertinent laboratory tests are discussed. Prerequisites, Successful completion of 1st Summer Term in DMS program. Fall.

4232. OB&GYN Sonography Laboratory Laboratory scanning of specific anatomy and pathology necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonography. Corequisites, RSU 4613 and 4323. Prerequisites, Successful completion of the 1st Summer and Fall semesters in the DMS program. Spring.

4323. Physics and Instrumentation II This course is a continuation of RSU 4213. Advanced theoretical foundations and clinical applications of ultrasounds physics and instrumentation, including Doppler principles, performance testing, and bioeffects. Prerequisites, RSU 4213. Spring.

4413. Vascular Sonography Knowledge of venous and arterial anatomy, physiology and clinical considerations necessary for practice in the vascular clinical setting. Anatomy of the upper and lower extremities, abdomen, special circulations, cerebrovascular circulation. Prerequisites, RSU 4213, and 4323. Good standing in DMS program. Fall.

4422. Vascular Sonography Laboratory Ultrasound scanning of anatomy of the upper and lower extremities, abdomen, and special circulations, as well as cerebrovascular intra and extracranial circulation will be the focus of this course. Prerequisites, Good standing in DMS program. Fall.

4433. Vascular Physics Knowledge of vascular principles and instrumentation to aid sonographers in understanding the physics of Doppler ultrasound, hemodynamics, physiology, and fluid dynamics necessary to become competent in the field. Prerequisites, Good standing in DMS program. Fall.

4513. Ultrasound Clinic I Experiential learning practicum with three radiological facilities that allows students to participate with department management the skills, concepts and theories studied in RS 4343. Prerequisite, RS 4343. Fall, Spring. Summer.

4523. Ultrasound Clinical Education II Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, and ob-gyn sonography. Must have good academic standing in the DMS program. Spring.

4534. Ultrasound Clinical Education III Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, and obstetrics and gynecology sonography. Prerequisites, RSU 4513, RSU 4523, and RSU 4534. Summer.

4544. Ultrasound Clinical Education IV Advanced level content and clinical practice experiences designed for sequential development application, analysis, integration, synthesis and evaluation of concepts. Prerequisites, RSU 4513, RSU 4523, and RSU 4534. Summer.

4552. Ultrasound Clinical Education V Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, ob gyn, and vascular sonography. Prerequisites, Successful completion of RSU 4513, RSU 4523, RSU 4534, and RSU 4544. Fall.

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. Fall.

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 ZOOL 2001, ENG 1003. Spring.

1235. Nursing I Theories and concepts necessary for effective assessment of individual and family ability to meet activities of daily living and developmental needs. Child and adult health problems that are usual, expected and have predictable outcomes are studied. Emphasis is placed upon student use of the nursing process in identifying these problems and their resolutions through relevant nursing interventions. Prerequisites, admission to the program or NRS 1214, NRSP 1222, NRS 3392, NRSP 3391 or Corequisites, NRS 1252, NRSP 1243. Fall.

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 NRSP 1243. Fall.

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. Fall, Spring.

2203. Basic Human Nutrition Basic concepts of nutrition including factors that have an impact upon nutritional practices. Special attention to age related nutritional needs. May be used for General Education requirements. Fall, Spring.

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. Spring.

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. Fall.
2252. **Role Development II** An analysis of the role of the associate degree nurse, and the legal and 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. Spring.

2252. **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 and skills are explored. Prerequisite, NRS 2215, NRS 2252, and NRSP 2224. Corequisites, NRS 2235, NRS 2272, and NRSP 2244. Fall.

2311. **NCLEX Preparation** An introduction to the essential skills of problem solving and test taking that are critical to professional nursing. Fall.

2314. **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 life span. Prerequisite, Admission to the BSN program. Corequisite, NRS 1222. Fall.

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. Spring.

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 and II and Microbiology or by permission of instructor. Fall, Spring, Summer.

330V. **Special Problems in Nursing** Specific areas with the topic and mode of study agreed upon by the student and the instructor. Course may be repeated with various topics. Registration must be approved by the department chair. Demand.

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 PSY 3101 or SOC 3383 and SOC 3381. Corequisite, NRS 3345 and NRSP 3335. Spring.

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, NRSP 2343, NRS 3392 and NRSP 3391. Fall.

3325. **Nursing Care Systems III** Practicum in which NURS 3314 is implemented. The student designs and implements care for adults and children in a secondary care setting. Prerequisite or corequisite, NRS 3314. Fall.

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. Fall, Summer.

3343. **Clinical Pharmacology and Nursing Management** Concepts essential for integration of pharmacological theory into professional nursing practice. Corequisite, NRS 3315 or permission of instructor. Fall, Summer.

3345. **Acute Care Nursing II** Continuation of concepts introduced in NRS 3315. Prerequisites, NRS 3315 and NRS 3343. Spring.

3353. **Aging and the Older Adult** Analysis of the aging process, including theories of aging, ethical issues, biopsychosocial aging changes, impact of changing needs on support systems. Designed for Nursing, Health Care, and Health Promotions majors. Other majors allowed by consent of instructor. Prerequisites, PSY 2013. Fall, Summer.

3355. **Nursing Care Systems IV** Practicum in which theory from NRS 3344 is implemented or expanded. The student designs, implements, and evaluates care of individual clients and families in secondary care settings. Prerequisites, NRS 3325 and prerequisite or corequisite, NRS 3344. Spring.

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 ten hours of nursing credit, Registered Nurse status, or permission of instructor. Demand.

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 2334, NRSP 2543 or permission of the instructor. Prerequisite for LPN, AASN Program, permission of the instructor. Corequisite, NRS 3392. Fall, Spring, Summer.

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, ZOOL 2003 and ZOOL 2001. Pre or corequisite, ZOOL 2013, ZOOL 2011, and NRSP 3391. Fall, Spring, Summer.

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, twelve hours of coursework in Interdisciplinary Family Minor or Instructors permission. Spring.

4311. **Clinical Pharmacology and Nursing Management. Tertiary** Focuses on nursing responsibilities related to medications used in complex patient care structure. Prerequisite, CHEM 1033 and CHEM 1031, RN status or permission of instructor. Fall.

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 3335, NRS 3312. Fall.

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. Spring.

4343. **Professional Nursing. Community** Concepts of professional nursing practice expanded to the care of families and groups of clients in the community setting. Focuses also on change theory, group process strategies and professional and health care issues. Prerequisites, NRS 3345, NRSP 3335, NRS 3343, NRS 3392 and NRSP 3391. Fall, Spring.

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, NRSP 3355, NRS 3343, NRS 3392, and NRSP 3391. Fall, Spring.

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. Fall, Spring.
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. Fall.

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 PSY 3101 or SOC 3383 and SOC 3381. Fall, Spring.

Advanced Nutritional Concepts and 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. Spring.

Critical Decision Making and Testing Competencies in Nursing Further assists students to identify areas for improving critical thinking skills and test taking skills. Will enhance the students ability to problem solve in providing complex care to individuals, groups, communities and populations. Prerequisites, senior nursing student status or permission of instructor. Fall, Spring.

Principles of Disaster Preparedness An all hazards approach is utilized to identify legal and ethical issues, cultural, political and religious issues, collective behaviors and group panic, role of the media, effective communication, and identification of resources for persons engaged in disaster and emergency preparedness. Fall, Spring, Summer.

Physical Care of CBRN Victims Elucidates recognition, treatment and containment of Category A biological agents, chemical agents and radiological incidents. Content discussion will include advanced principles of disaster management, worker safety, advanced triage, disaster effects on special populations, laboratory analysis and expanded mental health response. Fall even.

Disaster Risk Identification Identifies actions communities, institutions and governments must take to identify the risk and prevent injury from man made and natural disasters, including acts of terrorism. Course topics include risk assessment, mitigation, surveillance, disaster epidemiology, emerging infections and socio-political implications. Fall odd.

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. Fall, Spring.

Nursing Practicum (NRSP)

Fundamentals of Nursing Practicum Practicum emphasizes the fundamental skills of nursing as utilized in maintaining activities of daily living. A clinical laboratory fee will be assessed. Prerequisite or corequisite, NRS 1214, NRS 3392, and NRSP 3391. Fall, Spring.

Clinical Practicum I Initial medical, surgical, maternal, and 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. A clinical laboratory fee will be assessed. Corequisites, NRS 1235 and NRS 1252. Fall.

Foundations of Nursing Practice Practicum emphasizes the fundamental skills of nursing as utilized in maintaining activities of daily living. A clinical laboratory fee will be assessed. Prerequisite or corequisite, NRS 2314. Fall.

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. A clinical laboratory fee will be assessed. Demand.

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. A clinical laboratory fee will be assessed. Spring. An additional fee is assessed for this course for a communication assessment test.

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 NRSP 2272. A clinical laboratory fee will be assessed. Fall. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students.

Role Development Practicum Course assists the graduating student to integrate the Associate Degree Nurse roles, including provider of care, manager of care and member of the profession. A clinical laboratory fee will be assessed. Demand.

Nursing Care II Practicum in which the clinical skills associated with the events of childbearing and peripertative care are developed. A clinical laboratory fee will be assessed. Prerequisites, NRS 2314 and NRSP 1422. Prerequisite or corequisite, NRS 2334. Spring.

Nursing Care III Practicum in which NURS 3314 is implemented. The student designs and implements care for adults and children in a secondary care setting. A clinical laboratory fee will be assessed. Prerequisite or corequisite, NRS 3315. Fall.

Nursing Care IV Practicum in which theory from NRS 3344 is implemented or expanded. The student designs, implements, and evaluates care of individual clients and families in secondary care settings. A clinical laboratory fee will be assessed. Prerequisites, NRSP 3325 and prerequisite or corequisite, NRS 3345. Spring.

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. Prerequisite for LPN, AASN Program. Permission of the instructor required. A clinical laboratory fee will be assessed. Corequisite, NRS 3392. Fall, Spring, Summer.

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. A clinical laboratory fee will be assessed. Prerequisites, RN status. Corequisites or prerequisites, NRS 4362, NRS 4343, and NRS 4312. Spring.

Nursing Care V Practicum in which NRS 4314 and 4343 are implemented. Provision of health promotion, health maintenance, and disease management nursing care in home based and community based settings. A clinical laboratory fee will be assessed. Prerequisites or corequisites, NRS 4343 and 4314. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students. Fall, Spring.

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. A clinical laboratory fee will be assessed. Prerequisites, RN status. Corequisites or prerequisites, NRS 4355 and 4373. Fall.

Nursing Care VI Practicum in which theory from NRS 4354 and NRS 4373 is implemented. Care of clients and families in critical care and emergency care areas of the hospital. Also assumes role of coordinator and manager of client care in acute care setting. A clinical laboratory fee will be assessed. Prerequisite or corequisite, NRS 4354 and NRS 4373. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students. Fall, Spring.
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. A clinical laboratory fee will be assessed. Prerequisites, Must have completed all Junior level BSN nursing courses and ZOOL 3143. Fall, Spring.

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. Fall, Spring.

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. Fall, Spring, Summer.

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. Spring.

3303. Human Behavior and Social Environment I Physical, psychological, social growth and development, across the life span. For social workers. Prerequisite, SW 2203. Fall.

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. Fall.


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. Spring 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. Spring.

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. Fall.

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 4263. Fall.

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. Fall.

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. Spring.

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. Spring.

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 and communities, as well as policy practice. Open only to seniors. Prerequisite, SW 4263. To be taken concurrently with SW 4283 and SW 4296. Spring.

4313. Social Welfare Policy Analytical evaluation of how social welfare policies are formulated and implemented. Prerequisite, SW 3333. Fall.

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. Demand.

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 and disability, death and dying are examined from an ecological systems perspective. Issues of diversity and bioethics are emphasized. Demand.

460V. Special Problems Individually directed problems in Social Work. Must be arranged with the professor and approved by department chair. TBA.
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 a 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 12 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. Grippio, R. Grippio, 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.

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:**
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:
BIOL 1013, Biology of the Cell AND BIOL 1021, Biology of the Cell Laboratory
CHEM 1013, General Chemistry I AND CHEM 1011, General Chemistry I Laboratory
HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876
MATH 1054, Precalculus Mathematics (OR MATH 1023 and MATH 1054 if ACT Math score less than 22)
PSG2C103, Introduction to United States Government
PSY 2013, Introduction to Psychology
SCOM 2003, Oral Communication

**Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>BIOL 3122, Principles of Ecology AND BIOL 3121, Principles of Ecology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3313, Genetics AND BIOL 3311, Genetics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3813, Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4014, Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4133, Cell Biology AND BIOL 4131, Cell Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BOT 1103, Biology of Plants AND BOT 1101, Biology of Plants Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1021, General Chemistry I AND CHEM 1023, General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3032, Comparative Anatomy AND ZOOL 3012, Comparative Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3121, Principles of Ecology AND BIOL 3122, Principles of Ecology</td>
<td>2</td>
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<tr>
<td>BIOL 3313, Genetics AND BIOL 3311, Genetics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3314, Introduction to Organic and Biochemistry AND CHEM 3031, Intro to Organic and Biochemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2184, Survey of Calculus</td>
<td>4</td>
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<tr>
<td>PHYS 2054, General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2064, General Physics II</td>
<td>4</td>
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<tr>
<td>ZOOL 1043, Biology of Animals AND ZOOL 1041, Biology of Animals Laboratory</td>
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<tr>
<td>Earth Science Electives: (3-6 credit hours above 100 level)</td>
<td>6-12</td>
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<tr>
<td>GEOL 1003, Environmental Geology AND GEOL 1001, Environmental Geology Laboratory</td>
<td>4</td>
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<tr>
<td>GEOL 3723, Introduction to Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1103, Introduction to Space Science AND PHYS 1101, Introduction to Space Science Laboratory; OR PHYS 3313, Astronomy</td>
<td>9</td>
</tr>
</tbody>
</table>

| Total | 61-63 |

**Professional Education Requirements:**
Sem. Hrs.
EDSC 4593, Methods and Materials for Teaching Science in the Secondary School | 3 |
PSY 3703, Educational Psychology | 3 |
SCED 2014, Introduction to Secondary Teaching | 3 |
SCED 3515, Performance Based Inst. Design | 5 |
SCED 4713, Educational Measurement with Computer Applications | 3 |
SE 9643, The Exceptional Student in the Regular Classroom | 3 |
Tibi 4826, Teaching Internship in the Secondary School | 12 |

* See Bachelor of Science in Education degree—College of Education
** Prerequisite: Admission into the Teacher Education Program

**Additional General Requirements for Teacher Education:**
Sem. Hrs.
HLTH 2513, Principles of Personal Health | 3 |

| Total | 3 |

Emphasis Area: (Select one of the five options):

**Biology:**
Sem. Hrs.
BIOL 4014, Microbiology | 4 |
BOT 3012, Plant Morphology AND BOT 3022, Plant Morphology Laboratory | 4 |
CHEM 3103, General Chemistry I AND CHEM 3101, General Chemistry I Laboratory | 4 |
CHEM 3102 AND CHEM 3101, Invertebrate Zoology and Invertebrate Zoology Laboratory | 4 |
STAT 3233, Applied Statistics; OR CHEM 4243, Biochemistry | 3 |
ZOOL 3032, Comparative Anatomy AND ZOOL 3012, Comparative Anatomy Laboratory | 4 |
ZOOL 3021 AND ZOOL 3023, Animal Physiology Laboratory and Animal Physiology; OR BOT 4111 AND 4112, Plant Physiology Laboratory and Plant Physiology | 4 |
ZOOL 4063, Animal Embryology AND ZOOL 4071, Animal Embryology Laboratory | 4 |

| Total | 27 |

**Botany:**
Sem. Hrs.
BIOL 4014, Microbiology | 4 |
BOT 3012, Plant Morphology AND BOT 3022, Plant Morphology Laboratory | 4 |
CHEM 3103, General Chemistry I AND CHEM 3101, General Chemistry I Laboratory | 4 |
STAT 3233, Applied Statistics; OR CHEM 4243, Biochemistry | 3 |
BOT 4111, Plant Physiology AND BOT 4111, Plant Physiology Laboratory | 4 |
Botany electives | 6 |

| Total | 27 |

**Environmental Biology:**
Sem. Hrs.
BIOL 4133 AND 4131, Cell Biology and Cell Biology Lab; OR CHEM 4243 AND 4241, Biochemistry and Biochemistry Lab | 4 |
BOT 3102 AND 3101, Plant Taxonomy and Plant Taxonomy Lab; OR ZOOL 3122 AND 3121, Invertebrate Zoology and Invertebrate Zoology Lab | 3-4 |
ENVR 4003, Conservation Biology | 3 |
ENVR 4103, Environmental Microbiology | 3 |
ENVR 4202, Legal Aspects of Environmental Management | 3 |
ENVR 4203, Environmental Toxicology: Mechanisms and Impacts | 3 |
ENVR 4300 AND 4301, Environmental Biology and Environmental Biology Lab | 4 |
STAT 3233, Applied Statistics | 3 |
Biological Sciences electives | 9 |

| Total | 34-35 |
### Pre-professional Studies:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>BIOL 4014, Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4133 AND 4131, Cell Biology and Cell Biology Laboratory OR CHEM 4243, Biochemistry</td>
<td>4-3</td>
</tr>
<tr>
<td>ZOOL 3002 and 3012, Comparative Anatomy and Comparative Anatomy Laboratory AND ZOOL 3151, 3153, 3151, AND 3163, Human structure and Function I and II Laboratories and Human Structure and Function II and III</td>
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<tr>
<td>ZOOL 3203 AND 3201, Animal Physiology and Animal Physiology Laboratory OR Botany Elective</td>
<td>3</td>
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</table>

Any three or more of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>BIOL 4123 AND 4121, Human Genetics and Human Genetics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4133 AND 4131, Cell Biology and Cell Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4243, Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4272 AND 4282, Immunology and Immunology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BOT 4282 AND 4281, Medical Mycology and Medical Mycology Laboratory</td>
<td>3</td>
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<tr>
<td>CHEM 3143, Physical Chemistry with Biological Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3713, Ethics in the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3233, Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 4012 AND 4022, Animal Histology and Animal Histology Laboratory</td>
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</tr>
<tr>
<td>ZOOL 4003 AND 4005, Animal Embryology and Animal Embryology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 4163 AND 4161, Mammalian Neurobiology and Mammalian Neurobiology Laboratory</td>
<td>4</td>
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Total: 24-28

### Zoology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>STAT 3233, Applied Statistics; OR CHEM 4243, Biochemistry</td>
<td>3</td>
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<tr>
<td>ZOOL 3002, Comparative Anatomy AND ZOOL 3012, Comparative Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 3151 AND 3153, Invertebrate Zoology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENT 3003 AND 3001, General Entomology and General Entomology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 3201, Animal Physiology Laboratory AND ZOOL 3203, Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 4063, Animal Embryology AND ZOOL 4071, Animal Embryology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Botany elective</td>
<td>3</td>
</tr>
<tr>
<td>Zoology elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 25

### Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>If BOTH options are completed, the additional course(s) may count as an elective.</em></td>
<td>0-15</td>
</tr>
</tbody>
</table>

Total: 124-130

### Major in Wildlife Ecology and Management Bachelor of Science

### General Education Requirements:

<table>
<thead>
<tr>
<th>Course</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>

Specific General Education Requirements:

- Students with this major must take the following:
  - BIOL 1013, Biology of the Cell AND BIOL 1025, Biology of the Cell Laboratory
  - CHEM 1013, General Chemistry I AND CHEM 1011, General Chemistry II Laboratory
  - MATH 1054, Precalculus Mathematics (or MATH 1023 and MATH 1054 if Math ACT score less than 22)

### Language Requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language (Refer to index for foreign language requirements)</td>
<td>0-6</td>
</tr>
</tbody>
</table>

### Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3121, Principles of Ecology AND BIOL 3121, Principles of Ecology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2013, Genetics AND BIOL 3111, Genetics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4371, Biological Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BOT 1103, Biology of Plants AND BOT 1101, Biology of Plants Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BOT 3101, Plant Taxonomy AND BOT 3102, Plant Taxonomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1021, General Chemistry II AND CHEM 1023, General Chemistry II Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2194, Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3233, Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 1043, Biology of Animals AND ZOOL 1041, Biology of Animals Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 4001 AND 4002, Fishery Biology and Fishery Biology Laboratory, OR ZOOL 4021 AND 4022, Ichthyology and Ichthyology Laboratory, OR ZOOL 4042 and 4241, Ichthyology and Ichthyology Laboratory, OR</td>
<td>3-4</td>
</tr>
<tr>
<td>BIOL 4363 and 4361, Limnology and Limnology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 4311, Mammalogy Laboratory AND ZOOL 4032, Mammalogy</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 4361, Ornithology Laboratory AND ZOOL 4263, Ornithology</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 4153, Wildlife Management AND ZOOL 4151, Wildlife Management Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 4203, Animal Ecology AND ZOOL 4201, Animal Ecology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 4273 AND ZOOL 4271, Wildlife Management Investigational Techniques and Laboratory, OR ZOOL 4383, Wildlife Program Internship, OR BIOL 4393, Special Problems in Biology</td>
<td>3</td>
</tr>
<tr>
<td>Botany Elective; OR HORT 3283, Forestry</td>
<td>3</td>
</tr>
<tr>
<td>Communication Electives (functional writing, speech, journalism, use of mass media, etc., to be approved by advisor or chair)</td>
<td>6</td>
</tr>
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</table>

### The following are specialized programs within Biology. Students pursuing the following curricula should enroll as Biology majors.

#### Recommended Program for Pre-Chiropractic Students

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>sophomore year</td>
<td>General Education Requirements</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td></td>
<td>CHEM 1011</td>
<td>BOT 1101</td>
</tr>
<tr>
<td></td>
<td>CHEM 1013</td>
<td>BOT 1103</td>
</tr>
<tr>
<td></td>
<td>MATH 1023 or MATH 1054</td>
<td>CHEM 1021</td>
</tr>
<tr>
<td></td>
<td>ZOOL 1041</td>
<td>ZOOL 1043</td>
</tr>
<tr>
<td></td>
<td>ZOOL 1043</td>
<td>CHEM 1021</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2001</td>
<td>MATH 1054 or MATH 2194</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2003</td>
<td>ZOOL 2003</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>sophomore year</td>
<td>General Education Requirements</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td></td>
<td>CHEM1301</td>
<td>CHEM3111</td>
</tr>
<tr>
<td></td>
<td>CHEM1303</td>
<td>CHEM3131</td>
</tr>
<tr>
<td></td>
<td>PHYS2054</td>
<td>PHYS2064</td>
</tr>
<tr>
<td></td>
<td>PSY 2013</td>
<td>Social Sciences/Humanities (3 hrs.)</td>
</tr>
<tr>
<td></td>
<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>Semester</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>sophomore year</td>
<td>General Education Requirements</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td></td>
<td>ENG 1003</td>
<td>ENG 1013</td>
</tr>
<tr>
<td></td>
<td>MATH 1023 or 1054</td>
<td>MATH1054 or 2194</td>
</tr>
<tr>
<td></td>
<td>PSY 2013</td>
<td>SOCOM 1203</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2003</td>
<td>ZOOL 2013</td>
</tr>
<tr>
<td></td>
<td>ZOOL 2001</td>
<td>ZOOL 2011</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>sophomore year</td>
<td>General Education Requirements</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td></td>
<td>BOT 1101</td>
<td>CHEM 1011</td>
</tr>
<tr>
<td></td>
<td>BOT 1103</td>
<td>CHEM 1013</td>
</tr>
<tr>
<td></td>
<td>HIST 2763 or POSC 2313</td>
<td>SOC 2213</td>
</tr>
<tr>
<td></td>
<td>PHYS 2054</td>
<td></td>
</tr>
</tbody>
</table>
### Recommended Program for Pre-medical and Pre-dental Students

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>Fine Arts (3 hrs.)</td>
<td>Liberal Arts electives (3 hrs.)</td>
</tr>
<tr>
<td>BIOL 1013 or ZOOL 1043</td>
<td>ENG 1013</td>
</tr>
<tr>
<td>BIOL 1021 or ZOOL 1041</td>
<td>CHEM 1013</td>
</tr>
<tr>
<td>ENGL 1003</td>
<td>CHEM 1011</td>
</tr>
<tr>
<td>HIST 1013</td>
<td>HIST 1023</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>SCOM 1203</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>Liberal Arts electives (2-4 hrs.)</td>
<td>Fine Arts (2 hrs.)</td>
</tr>
<tr>
<td>BIOL 2103</td>
<td>JR/ST Electives (6-8 hrs.)</td>
</tr>
<tr>
<td>BIOL 2107</td>
<td>CS 1043 or CIT 1503</td>
</tr>
<tr>
<td>ENGL 2003 or ENGL 2013**</td>
<td>HIST 2763 or HIST 2773</td>
</tr>
<tr>
<td>PSY 2103</td>
<td>SOC 2213</td>
</tr>
</tbody>
</table>

As requirements differ for each dental hygiene program, it is strongly recommended that you see an advisor before scheduling classes.

*Meets requirements for UAMS program.

---

### 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 chemical 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 mathematic courses found in the Sciences 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-medical Hygiene Students*

<table>
<thead>
<tr>
<th>Category</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>General Education Requirements</td>
<td></td>
</tr>
<tr>
<td>Liberal Arts electives (3 hrs.)</td>
<td>Liberal Arts electives (3 hrs.)</td>
<td></td>
</tr>
<tr>
<td>ENG 1013</td>
<td>CHEM 1013</td>
<td></td>
</tr>
<tr>
<td>CHEM 1011</td>
<td>HIST 1023</td>
<td></td>
</tr>
<tr>
<td>MATH 1023</td>
<td>SCOM 1203</td>
<td></td>
</tr>
</tbody>
</table>

* Meets requirements for UAMS program.

---

### Major in Chemistry Bachelor of Science

#### 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:

- BIOL 1021, Biology of the Cell
- BIOL 1031, Principles of Zoology AND CHEM 1013, General Chemistry I
- MATH 1054, Precalculus Mathematics; OR MATH 2204, Calculus I

#### Language Requirement:

Foreign Language (Refer to index for foreign language requirements)

#### Major Requirements:

- CHEM 1021, General Chemistry II Laboratory AND CHEM 1023, General Chemistry II
- CHEM 2001, Descriptive Inorganic Chemistry
- CHEM 3054, Organic Chemistry I Laboratory AND CHEM 3103, Organic Chemistry II
- CHEM 3111, Organic Chemistry II Laboratory AND CHEM 3113, Organic Chemistry III
- CHEM 3154, Survey of Physical Chemistry
- CHEM 3134, Physical Chemistry II
- CHEM 4204, Inorganic Chemistry
- CHEM 4224, Instrumentation
- MATH 2214, Calculus II
- MATH 3254, Calculus III
- **PHYS 2034, University Physics I, OR PHYS 2054, General Physics I**
- **PHYS 2044, University Physics II, OR PHYS 2064, General Physics II**

*Required only if not taken to satisfy a part of the General Education Requirements
**American Chemical Society requires PHYS 2034 and PHYS 2044 for certified degree

### Emphasis Area: (Select one of the three options):**

#### Chemistry:

- Geology or Biological Sciences Elective
- Electives

#### Environmental:

- CHEM 4043, Environmental Chemistry
- CHEM 4053, Geochemistry
- GEOF 1001, Environmental Geology LIAB AND GEOF 1003, Environmental Geology
- Electives

#### Pre-professional Studies:

- ZOOL 1041, Principles of Zoology Laboratory AND ZOOL 1043, Principles of Zoology
- Biology or Zoology Electives
- Electives

Total

---

340
Major in Chemistry
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: 

CHEM 1011, General Chemistry I or CHEM 1113, General Chemistry I  
MATH 1054, Precalculus Mathematics; OR MATH 2204, Calculus I

Language Requirement:  
Foreign Language (Refer to index for foreign language requirements) ................................................................. 0-12

Major Requirements:  

CHEM 1021, General Chemistry II Laboratory AND CHEM 1023, General Chemistry II ........................................ 4
CHEM 3004, Descriptive Inorganic Chemistry .............................................................. 4
CHEM 3054, Quantitative Analysis .............................................................................. 4
CHEM 3101, Organic Chemistry I Laboratory AND CHEM 3103, Organic Chemistry I .................................. 4
CHEM 3111, Organic Chemistry II Laboratory AND CHEM 3113, Organic Chemistry II ................................... 4
CHEM 3154, Physical Chemistry I .............................................................................. 4
CHEM 4234, Biochemistry ......................................................................................... 4
* MATH 2204, Calculus I ......................................................................................... 4
PHYS 2034, General Physics I, AND PHYS 2084 General Physics II; OR 
PHYS 2034, University Physics I, AND PHYS 2044, University Physics II .................. 8
Botany, Zoology, or Geology Electives .................................................................... 6

* Required only if not taken to satisfy a part of General Education Requirements 

Emphasis Area: Pre-pharmacy

Additional Specific General Education Requirement  
ECON 2313, Principles of Macroeconomics ............................................................................... 3

Electives:  

Sem. Hrs. 

Sem. Hrs. 

Total 124

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:  

General Education Requirement  
BIOL 1001
CHEM 1011
CHEM 1013
ENG 1003
MATH 1054*  

Spring Semester: 

General Education Requirement  
BIOL 1001
CHEM 1011
CHEM 1013
ENG 1003
MATH 2194 or 2204

MAY begin with MATH 2194 or MATH 2204 if qualified

Sophomore Year

Fall Semester: 

General Education Requirements  
CHEM 3101
CHEM 3103
ECON 2213
PHYS 2054

Spring Semester: 

General Education Requirements  
CHEM 3111
CHEM 3113
PHYS 2064

Major in General Science: Chemistry 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: 

CHEM 1013, General Chemistry I AND CHEM 1111, General Chemistry I Laboratory 
HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876
* MATH 1054, Precalculus Mathematics; OR MATH 2204, Calculus I 
POSC 2103, Introduction to United States Government
PSY 2013, Introduction to Psychology

*If qualified, may begin MATH 2194 or MATH 2204

Major Requirements:  

(The specific requirements listed above will not be counted in the major.) 

CHEM 1021, General Chemistry II Laboratory AND CHEM 1023, General Chemistry II ........................................ 4
CHEM 3004, Descriptive Inorganic Chemistry .............................................................. 4
CHEM 3054, Quantitative Analysis .............................................................................. 4
CHEM 3101, Organic Chemistry I Laboratory AND CHEM 3103, Organic Chemistry I .................................. 4
CHEM 3111, Organic Chemistry II Laboratory AND CHEM 3113, Organic Chemistry II ................................... 4
CHEM 3154, Survey of Physical Chemistry ........................................................................... 4
GEOG 2723, Introduction to Physical Geography .......................................................... 3
GEOG 3703, Environmental Geography ......................................................................... 3
MATH 2204, Calculus I (if not taken as General Education requirement) ................. 4
PHYS 2034, University Physics I OR PHYS 2054, General Physics I .............................................. 4
PHYS 2044, University Physics II OR PHYS 2064, General Physics II ............................. 4

Professional Education Requirements:*  

** EDSC 4593, Methods and Materials for Teaching Science in the Secondary School  
** PSY 3703, Educational Psychology  
** SCED 2614, Introduction to Secondary Teaching  
** SCED 3515, Performance Based Inst. Design  
** SCED 4713, Educational Measurement with Computer Applications  
** SE 5643, The Exceptional Student in the Regular Classroom  
** TICH 4826, Teaching Internship in the Secondary School  

* See Bachelor of Science in Education degree—College of Education  

Prerequisite: Admission into the Teacher Education Program

Additional General Requirements for Teacher Education:  

HLTH 2103, Principles of Personal Health  
SCOM 1203, Oral Communication  

Total 126-133

Major in Physics
Bachelor of Science

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: 

MATH 2204, Calculus 
PHYS 2034, University Physics

Language Requirement:  
Foreign Language (Refer to index for foreign language requirements) ................................................................. 0-6
**Major Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2182</td>
<td>Programming I AND CS 2181, Programming I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry I AND CHEM 1011, General Chemistry I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1023</td>
<td>General Chemistry II AND CHEM 1021, General Chemistry II Laboratory</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>
<tr>
<td>MATH 4403</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2044</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3103</td>
<td>Thermal Physics</td>
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<tr>
<td>PHYS 3103</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3203</td>
<td>Electromagnetic Theory</td>
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<td>PHYS 3303</td>
<td>Modern Physics</td>
<td>3</td>
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<td>PHYS 3303</td>
<td>Optics</td>
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**Electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>HLTH 2513</td>
<td>Principles of Personal Health</td>
<td>3</td>
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<tr>
<td>FOSC 2013</td>
<td>Forensic Science Survey</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 411V</td>
<td>Forensic Science Internship/Research</td>
<td>4-6</td>
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<tr>
<td>BIOL 4141</td>
<td>Microtechnique</td>
<td>3</td>
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<tr>
<td>PSY 2013</td>
<td>Intro to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2023</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2024</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2033</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2043</td>
<td>Personality</td>
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<td>PSY 2053</td>
<td>Personality</td>
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<td>PSY 2064</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Intro to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3254</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2044</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3103</td>
<td>Mechanical Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 124

**Major in General Science**:  

**Physics Emphasis**: Bachelor of Science in Education

**General Education Requirements**:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>HIST 2763</td>
<td>The U.S. To 1876</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2044</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3254</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Intro to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>Intro to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

**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
- MATH 2204, Calculus I
- PSY 2013, Intro to Psychology

**Major Requirements**:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry I AND CHEM 1011, General Chemistry I Laboratory</td>
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<tr>
<td>CHEM 1023</td>
<td>General Chemistry II AND CHEM 1021, General Chemistry II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CS 2182</td>
<td>Programming I AND CS 2181, Programming I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2732</td>
<td>Introduction to Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 1003</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2214</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH 3254</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>MATH 4403</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1102</td>
<td>Introduction to Space Science OR PHYS 3123, Astronomy</td>
<td>3</td>
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<tr>
<td>PHYS 2044</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3103</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3203</td>
<td>Electromagnetic Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3303</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 44

**Professional Education Requirements**:

- EDSC 4593, Methods and Materials for Teaching Science in the Secondary School | 3
- PSY 3703, Educational Psychology | 3
- SEDU 2014, Introduction to Secondary Teaching | 4
- SEDU 3505, Performance based Instruction Design | 5
- SEDU 4713, Educational Measurement with Computer Applications | 3
- SE 3663, The Exceptional Student in the Regular Classroom | 3
- TIPH 426, Teaching Internship in the Secondary School | 12

**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 Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2751</td>
<td>Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>SCOM 1203</td>
<td>Oral Communication</td>
<td>3</td>
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</table>

**Total** 6

**Minor in Chemistry**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1011</td>
<td>General Chemistry I Laboratory AND CHEM 1013, General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1021</td>
<td>General Chemistry II Laboratory AND CHEM 1023, General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3101</td>
<td>Organic Chemistry I Laboratory AND CHEM 3102, Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3111</td>
<td>Organic Chemistry II Laboratory AND CHEM 3113, Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3113</td>
<td>Organic Chemistry I Laboratory AND CHEM 3113, Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3115</td>
<td>Organic Chemistry I Laboratory AND CHEM 3115, Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3117</td>
<td>Organic Chemistry I Laboratory AND CHEM 3117, Organic Chemistry II</td>
<td>4</td>
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</table>

**Total** 20

**Minor in Physics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>PHYS 2034</td>
<td>University Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2044</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3003</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3103</td>
<td>Principles of Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 3103</td>
<td>Research in Physics-Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 6

**Bachelor of Science in Forensic Science**

The Bachelor of Science in Forensic Science is a cross-disciplinary degree featuring courses in the College of Sciences 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**:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1011</td>
<td>Biology of the Cell Laboratory AND BIOL 1013, Biology of the Cell</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1011</td>
<td>General Chemistry Laboratory AND CHEM 1013, General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Intro to Psychology</td>
<td>3</td>
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<tr>
<td>SOC 2213</td>
<td>Intro to Sociology</td>
<td>3</td>
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**Major Requirements**:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4141</td>
<td>Microtechnique AND BIOL 4142, Techniques in Electron Microscopy Lab</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1021</td>
<td>General Chemistry II Laboratory AND CHEM 1023, General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3101</td>
<td>Organic Chemistry I Laboratory AND CHEM 3102, Organic Chemistry I</td>
<td>4</td>
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<tr>
<td>CHEM 3111</td>
<td>Organic Chemistry II Laboratory AND CHEM 3113, Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CRIM 2253</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 2263</td>
<td>Criminal Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 411V</td>
<td>Forensic Science Internship/Research</td>
<td>4-6</td>
</tr>
<tr>
<td>FOSC 2013</td>
<td>Forensic Science Survey</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 2113</td>
<td>Forensic Science Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2054</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2064</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3233</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Forensic Chemistry**: CHEM 3054, CHEM 4204, CHEM 4224, CHEM 3154

**Electives**: 23 Minimum

- CHEM 4243 and 4241, CHEM 4263, ENVR 4203, FOSC 4271-3, CHEM 4353, CHEM 4254, BIOL 3313 and 3311, ENVR 4121

**Note**: All Forensic Science majors are required to complete the following General Education Courses:

- BIO 1011, Biology of the Cell Laboratory AND BIO 1013, Biology of the Cell
- CHEM 1011, General Chemistry Laboratory AND CHEM 1013, General Chemistry
- MATH 2204, Calculus I
- PSY 2013, Intro to Psychology
- SOC 2213, Intro to Sociology

**Sem. Hrs.** 46

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Department of Computer Science

Associate Professor Jeff Jennex, 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 ................................................................. 46-49

Specific General Education Requirements:

- Students with this major must take the following:
  - MATH 1054, Precalculus Mathematics
  - PHIL 1103, Introduction to Philosophy
  - PHYS 2054, General Physics I

Language Requirement: Foreign Language (Refer to index for foreign language requirements) ................................................................. 0-12

Major Requirements:

- CS 2171, Introduction to Programming Lab AND CS 2173, Introduction to Programming ................................................................. 4
- CS 2181, Structured Programming Lab AND CS 2183, Structured Programming ................................................................. 4
- CS 2191, Object-Oriented Programming Lab AND CS 2193, Object-Oriented Programming ................................................................. 4
- CS 3453, Operating Systems ......................................................................................................................................................... 3
- CS 3363, Data Structures ......................................................................................................................................................... 3
- CS 4373, Database Systems ......................................................................................................................................................... 3
- CS 4463, Computer Networks ......................................................................................................................................................... 3
- CS 4523, Software Engineering I ......................................................................................................................................................... 3
- CS 4533, Software Engineering II ......................................................................................................................................................... 3
- MATH 2183, Discrete Structures ......................................................................................................................................................... 3
- MATH 2204, Calculus I ......................................................................................................................................................... 3
- MATH 2214, Calculus II ......................................................................................................................................................... 3
- MATH 2274, Calculus III ......................................................................................................................................................... 3
- MATH 3264, Calculus IV ......................................................................................................................................................... 3
- CS 4273, Computers, Ethics, and Society ......................................................................................................................................................... 3
- PHYS 2033, Fundamental Physics II and PHYS 2081, Fundamental Physics II Laboratory, OR PHYS 2044, University Physics II ......................................................................................................................................................... 3
- STAT 4453, Probability and Statistics I ......................................................................................................................................................... 3

Electives (one of the following) ......................................................................................................................................................... 12
- BIO 1013 AND BIO 1011, Biology of the Cell
- BOT 1103 AND BOT 1101, Biology of Plants
- CHEM 1013 AND CHEM 1011, General Chemistry I
- ZOOL 1043 AND ZOOL 1041, Biology of Animals

Minor in Computer Science

Bachelor of Science

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:
  - MATH 2204, Calculus I
  - PHYS 2034, University Physics I

Language Requirement: Foreign Language (Refer to index for foreign language requirements) ................................................................. 0-6

Major Requirements:

- CS 2171, Introduction to Programming Lab AND CS 2173, Introduction to Programming ................................................................. 4
- CS 2181, Structured Programming Lab AND CS 2183, Structured Programming ................................................................. 4
- CS 2191, Object-Oriented Programming Lab AND CS 2193, Object-Oriented Programming ................................................................. 4
- CS 3453, Operating Systems ......................................................................................................................................................... 3
- CS 3363, Data Structures ......................................................................................................................................................... 3
- CS 4373, Database Systems ......................................................................................................................................................... 3
- CS 4463, Computer Networks ......................................................................................................................................................... 3
- CS 4523, Software Engineering I ......................................................................................................................................................... 3
- CS 4533, Software Engineering II ......................................................................................................................................................... 3
- MATH 2183, Discrete Structures ......................................................................................................................................................... 3
- MATH 2204, Calculus I ......................................................................................................................................................... 3
- MATH 2274, Calculus III ......................................................................................................................................................... 3
- PHIL 3723, Computers, Ethics, and Society ......................................................................................................................................................... 3
- STAT 3233, Applied Statistics ......................................................................................................................................................... 3

Computer Science Electives (except CS 1043, may include MATH 4533) ......................................................................................................................................................... 9

Electives: Total 124-127
Major in Mathematics
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:
- HIST 2793, The U.S. To 1876 OR HIST 2773, The U.S. Since 1876
- PHYS 2034, University Physics I
- PSYC 2103, Introduction to United States Government
- PSY 213, Introduction to Psychology

### Major Requirements:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1054</td>
<td>Precalculus Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2183</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<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>
<tr>
<td>MATH 3243</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3303</td>
<td>Modern Algebra I</td>
<td>3</td>
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<tr>
<td>MATH 3323</td>
<td>Mathematics Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3343</td>
<td>College Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3353</td>
<td>History of Mathematics</td>
<td>3</td>
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<tr>
<td>STAT 3233</td>
<td>Applied Statistics</td>
<td>3</td>
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<tr>
<td>STAT 4453</td>
<td>Probability and Statistics</td>
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</table>

Total 40

### Additional Departmental Requirements:

<table>
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<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>PHYS 2044</td>
<td>University Physics II or PHYS 2654, General Physics II</td>
<td>4</td>
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<tr>
<td>Computer Science Elective</td>
<td>3</td>
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Total 7

### Professional Education Requirements:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>EDMA 4563</td>
<td>Methods and Materials for Teaching Mathematics in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3703</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCED 2514</td>
<td>Introduction to Secondary Teaching</td>
<td>3</td>
</tr>
<tr>
<td>SCED 4515</td>
<td>Performance Based Instructional Design</td>
<td>5</td>
</tr>
<tr>
<td>SCED 4713</td>
<td>Educational Measurement with Computer Applications</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>TIMA 4826</td>
<td>Teaching Internship in the Secondary School</td>
<td>12</td>
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</table>

** See Bachelor of Science in Education degree—College of Education
** Prerequisite: Admission into the Teacher Education Program

Total 33

### Additional General Requirements for Teacher Education:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>HILTH 2513</td>
<td>Principles of Personal Health</td>
<td>3</td>
</tr>
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</table>

Total 3

Total 131-135

### Electives:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>STAT 4453</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4553</td>
<td>Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3254</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
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Total 33-39

Total 124-127

### Minor in Mathematics

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 2214</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3254</td>
<td>Calculus III</td>
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Total 20

### Minor in Statistics

<table>
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<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>STAT 4453</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4463</td>
<td>Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 20

### Language Requirement:

Foreign Language (Refer to index for foreign language requirements) .......................................................... 0-6
COLEGE OF SCIENCES AND MATHEMATICS 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.

DEPARTMENT OF BIOLOGICAL SCIENCES

Biology (BIOL)

1001. Biological Science Laboratory Two hours per week. To be taken concurrently with BIOL 1003. Special course fees may apply. Fall, Spring, Summer.

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 and natural environment. Lecture three hours per week. Special course fees may apply. Fall, Spring, Summer.

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. Special course fees may apply. Prerequisite, CHEM 1013. Fall, Spring, Summer.

1021. Biology of the Cell Laboratory Two hours per week. To be taken concurrently with BIOL 1012. Special course fees may apply. Prerequisite, CHEM 1011. Fall, Spring.

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. Special course fees may apply. Prerequisite, None. To be taken concurrently with BIOL 1001. Spring.

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. Special course fees may apply. Fall, Spring.

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. Special course fees may apply. Fall, Spring.

2101. Microbiology for Nursing and Allied Health Laboratory Two hours per week. To be taken concurrently with BIOL 2103. Special course fee, $10.00. Fall, Spring, Summer.

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. Special course fees may apply. Fall, Spring, Summer.

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 and ZOOL 1043, 1041. Enrollment limited to students seeking a career in dentistry, medicine, podiatry, or optometry. Graded pass or fail, credit cannot be applied to degree requirements. Special course fees may apply. Spring.

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 or fail, credit cannot be applied to degree requirements. Special course fees may apply. Spring.

3121. Principles of Ecology Laboratory Two hours per week. To be taken concurrently with BIOL 3122. Special course fees may apply. Fall, Spring.

3122. Principles of Ecology The relation of plants to environmental factors of soil, climate, and biotics. Lecture two hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103 and ZOOL 1043 and 1041. Fall, Spring.

3311 Genetics Laboratory 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. Special course fees may apply. Fall, Spring.

3313. Genetics A study of the principles of heredity including Mendelian genetics, population and evolutionary genetics, and molecular genetics with a focus on patterns of human inheritance. Special course fees may apply. Prerequisites, BIOL 1013 and BIOL 1021. Fall, Spring.

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. Special course fees may apply. Prerequisites, eight hours upper level biology and consent of instructor. Fall, even.

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. Special course fees may apply. Prerequisite, CHEM 1001 and 1003. Spring, odd.

4003. Laboratory Techniques in Electron Microscopy Laboratory Six hours per week. To be taken concurrently with BIOL 4001. Special course fees may apply. Fall, 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. Special course fees may apply. Fall, Spring, Summer, even.

4111. Issues in Human Ecology Laboratory Two hours per week. To be taken concurrently with BIOL 4112. Special course fees may apply. Summer, 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. Summer, odd.

4121. Human Genetics Laboratory Three hours per week. To be taken concurrently with BIOL 4123. Special course fees may apply. Fall, even.

4123. Human Genetics Current advances in the understanding of the human genome. Lecture three hours per week. Prerequisite, BIOL 3313. Special course fees may apply. Fall, even.

4131. Cell Biology Laboratory Two hours per week. To be taken concurrently with BIOL 4133. Special course fees may apply. Spring.
4133. **Cell Biology** Organization and activities of cells, with emphasis on the ultrastructure and function of cellular organelles. Lecture three hours per week. Special course fees may apply. Prerequisites, ZOOL 1041, 1043 and CHEM 1023 and 1021. Spring.

4141. **Microtechnique** Methods of killing, fixing, staining, and mounting tissues. Lecture one hour per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103 and ZOOL 1041, 1043 and CHEM 2064 or 3103 and 3101. Fall, odd.

4142. **Microtechnique Laboratory** Four hours per week. To be taken concurrently with BIOL 4141. Special course fees may apply. Fall, 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. Special course fees may apply. Spring, even years.

4263. **Virology** The structure, function, and classification of viruses, and their impact on modern society and the biological world. Lecture three hours per week. Special course fees may apply. Prerequisites, BIOL 2103 or BIOL 3513 or BIOL 4012 or BIOL 4133. Fall, even.

4271. **Microtechnique** Methods of killing, fixing, staining, and mounting tissues. Lecture one hour per week. Special course fees may apply. Prerequisites, BIOL 1013 and CHEM 1013. Fall.

4273. **Immunology Laboratory** Study of classical and current immunology techniques such as ELISA, immuno electrophoresis and Western Blot analysis. Laboratory 3 hours per week. Special course fees may apply. Prerequisites, BIOL 1013 and CHEM 1013. Fall.

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. Special course fees may apply. 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. Spring, odd.

4322. **Marine Mammals Laboratory** Hands on experience on the classification, anatomy, and behavior of marine mammals. Concurrent enrollment in BIOL 4323. Special course fees may apply. Permission of instructor required. Spring, odd.

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. Special course fees may apply. 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. Spring, 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. Special course fees may apply. Prerequisites, BIOL 1013, Biology of the Cell, or BIOL 4133; Cell Biology, or permission of the instructor. Spring, odd.

4343. **Pharmacology** The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, ZOOL 2003 and 2013, or ZOOL 3153 and 3253, BIOL 4014, and CHEM 4243. Spring.

4353. **Field Techniques for Marine Mammals** Field experience in describing and analyzing marine behavior of dolphins and other marine mammals. Special course fees may apply. Permission of Instructor required. Summer, odd.

4361. **Limnology Laboratory** Two hours per week. To be taken concurrently with BIOL 4363. Special course fees may apply. Fall, 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. Special course fees may apply. Prerequisite, ZOOL 1041 and 1043. Fall, 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. Special course fees may apply. Fall, Spring, Summer.

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. Special course fees may apply. 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. Fall, odd.

439V. **Special Problems in Biology** Specific area with the topic and mode of inquiry agreed upon by student and instructor. Registration may be repeated with various topics. Registration must be approved by the program director. Demand.

444V. **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 and approach. Number of credit hours will vary. Special course fees may apply. Prerequisites, consent of the instructor. May be repeated for a total credit of 6 hours. Fall, Spring.

**Botany (BOT)**

1101. **Biology of Plants Laboratory** Three hours per week. To be taken concurrently with BOT 1103. Special course fees may apply. Fall, Spring, Summer, odd.

1103. **Biology of Plants** Form, structure, function, and reproduction of plants. Lecture three hours per week. Special course fees may apply. Fall, Spring, Summer, 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. Special course fees may apply. Summer, odd every 4 years.

3011. **Wild Flowers of Arkansas Laboratory** Two hours per week. To be taken concurrently with BOT 3001. Special course fees may apply. Summer, odd every 4 years.

3013. **Plant Morphology** Development, structure, and reproduction of plants. Lecture three hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Fall, odd.

3021. **Plant Morphology Laboratory** Two hours per week. To be taken concurrently with BOT 3013. Special course fees may apply. Fall, odd.
3101. Plant Taxonomy A taxonomic study of the regional flowering plants and important plant families of North America. Lecture one hour per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Spring, odd.

3102. Plant Taxonomy Laboratory Four hours per week. To be taken concurrently with BOT 3101. Special course fees may apply. Spring, odd.

3113. Economic Botany Economic plants and their use by man. Lecture three hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Summer, even every 4 years.

3141. Plant Pathology Laboratory Two hours per week. To be taken concurrently with BOT 3142. Special course fees may apply. Spring.

3143. Plant Physiology General principles of conduction, cellular reactions, respiration, growth, photosynthesis, movement, hormones, and metabolism in plants. Lecture three hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Spring.

4101. Anatomy of Vascular Plants Laboratory Two hours per week. To be taken concurrently with BOT 4102. Special course fees may apply. Summer, odd every 4 years.

4102. Anatomy of Vascular Plants Development and structure of the vascular plants. Lecture two hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Summer, odd every 4 years.

4111. Plant Physiology Laboratory Three hours per week. To be taken concurrently with BOT 4113. Special course fees may apply. Spring, even.

4113. Plant Pathology Nature, cause, and control of diseases of orchard, garden, and field crops. Lecture two hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Spring.

4171. Wetland Plant Ecology Laboratory Two hours per week. To be taken concurrently with BOT 4172. Special course fees may apply. Spring, odd.

4172. Wetland Plant Ecology A study of plant responses to environmental factors during germination, growth, reproduction, and dormancy. Lecture two hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Fall, even every 4 years.

4181. Aquatic Plants Structure, classification, and ecology of freshwater algae and freshwater aquatic vascular plants. Lecture one hour per week. Special course fees may apply. Prerequisites, BIOL 3121 and 3122 or permission of professor or chair. Spring, odd.

4182. Aquatic Plants Laboratory Four hours per week. To be taken concurrently with BOT 4181. Special course fees may apply. Fall, even every 4 years.

4191. Mycology Laboratory Two hours per week. To be taken concurrently with BOT 4192. Four hours per week. To be taken concurrently with BOT 4181. Special course fees may apply. Fall, even every 4 years. Fall, odd.

4192. Mycology Morphology, cytology, genetics, and physiology of fungi. Lecture two hours per week. Four hours per week. To be taken concurrently with BOT 4181. Special course fees may apply. Fall, even every 4 years. Prerequisites, BOT 3012 and 3022. Fall, odd.

4281. Medical Mycology Laboratory Two hours per week. To be taken concurrently with BOT 4282. Special course fees may apply. Fall, even.

4282. Medical Mycology Cutaneous, systemic, and opportunistic fungus diseases mycoses of man and other animals. Lecture two hours per week. Special course fees may apply. Prerequisites, BOT 1101 and 1103. Fall, even.

Entomology (ENT)

3001. General Entomology Laboratory Two hours per week. To be taken concurrently with ENT 3003. Fall.

3003. General Entomology Identification, structure, and life history of the principal insect orders. Lecture three hours per week. Prerequisites, ZOOL 1041 and 1043. Fall.

3011. Economic Entomology Laboratory Two hours per week. To be taken concurrently with ENT 3013. Spring.

3013. Economic Entomology Life history, distribution, and control of injurious insects. Lecture three hours per week. Prerequisites, ZOOL 1041 and 1043. Spring.

4001. Aquatic Entomology Identification, life histories, and ecology of aquatic arthropods, 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 3121 and 3122 or ZOOL 4201 and 4202. Spring, odd.

4002. Aquatic Entomology Laboratory Four hours per week. To be taken concurrently with ENT 4001. Spring, odd.

4103. Forensic Entomology The life history, ecology and behavior of insects and related arthropods and how they affect the interpretation of potential crime scenes. Prerequisite, BIOL 1013 or ZOOL 1043. Fall, odd.

Environmental Biology (ENVR)

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. Special course fees may apply. Prerequisites, BIOL 3122 or permission of instructor. Spring, odd.

4101. Environmental Microbiology Laboratory Laboratory and field investigation into the role of microbes in the environment. Two hours per week. To be taken concurrently with ENVR 4103. Special course fees may apply. Spring, 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. Special course fees may apply. Prerequisites, CHEM 1023 and BIOL 2103 or 4012, or BIOL 4133. Spring, odd.

4121. 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. Special course fees may apply. Demand.

4202. Legal Aspects of Environmental Management Policy, law and regulations relating to society 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. Special course fees may apply. Prerequisite, BIOL 1003 and BIOL 1001 or equivalent. Lecture two hours per week. Spring, 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. Special course fees may apply. Fall, even.
Environmental Biology Laboratory  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. Special course fees may apply. Fall, odd.

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. Special course fees may apply. Prerequisites, BIOL 3122 or ZOOL 4203, ENVR 4203, or permission of instructor. Fall, odd.

Teaching Internship (TIBI)

BIOLOGY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  Ten semester hours. Full semester teaching internship. Fall, Spring.

BIOLOGY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  Twelve semester hours. Full semester teaching internship. Fall, Spring.

Zoology (ZOOL)

Human Anatomy Laboratory  Study of the structure of the human body with emphasis on the muscular, skeletal, nervous, and vascular systems. For Radiologic Technology Science majors only. Special course fees may apply. Two hours per week. To be taken concurrently with ZOOL 1013. Fall.

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. Special course fees may apply. To be taken concurrently with ZOOL 1011. Fall.

Human Physiology Laboratory  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. Special course fees may apply. To be taken concurrently with ZOOL 1023. Spring.

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. Special course fees may apply. To be taken concurrently with ZOOL 1011. Spring.

Biology of Animals Laboratory  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 1043. Fall, Spring, Summer, even.

Biology of Animals  Fundamentals of modern zoology and a survey of the phyla. Lecture three hours per week. Special course fees may apply. Fall, Spring, Summer, even.

Human Anatomy and Physiology I Laboratory  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. Special course fees may apply. To be taken concurrently with ZOOL 2003. Fall, Spring, Summer.

Human Anatomy and Physiology I  Introduction to the biology of atoms, molecules, organellas and cellular functions, tissues, functional anatomy of integumentary, skeletal, muscular and central nervous systems, interaction with external environment. Three hours per week. Special course fees may apply. No prerequisites. Fall, Spring, Summer.

Human Anatomy and Physiology II Laboratory  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. Special course fees may apply. Prerequisites, ZOOL 2001, 2003. To be taken concurrently with ZOOL 2013. Fall, Spring, Summer.

Human Anatomy and Physiology II  Major sense organs, autonomic nervous system and internal environment, neuro endocrine control mechanisms, respiratory and cardiovascular functions, oxygen and carbon dioxide transport, liver functions, digestive, renal and reproductive processes. Three hours per week. Special course fees may apply. Prerequisites, ZOOL 2001, 2003. Fall, Spring, Summer.

Comparative Anatomy  Chordate morphology, phylogeny, ontogeny, organology, and homology. Lecture two hours per week. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Fall.

Comparative Anatomy Laboratory  Four hours per week. Special course fees may apply. To be taken concurrently with ZOOL 3002. Fall.

Invertebrate Zoology  Classification and natural history of representatives invertebrates. Lecture two hours per week. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Spring, even.

Invertebrate Zoology Laboratory  Four hours per week. Special course fees may apply. To be taken concurrently with ZOOL 3122. Spring, even.


Human Structure and Function I Laboratory  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 3153. Fall.

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. Special course fees may apply. Prerequisites, ZOOL 1043 and 1041, CHEM 1023 and 1021. Fall.

Human Structure and Function II Laboratory  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 3163. Spring.

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. Special course fees may apply. Prerequisites, ZOOL 3153 and 3151. Spring.

Animal Physiology Laboratory  Three hours per week. Special course fees may apply. To be taken concurrently with ZOOL 3203. Spring.

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. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043, CHEM 1021 and 1023. Spring.

Physical Diagnosis  This course provides an introduction to clinical medicine for Pre medical students by teaching the basics of physical examination. Prerequisites, ZOOL 1043 and 1041. Enrollment limited to Pre medical students. Special course fees may apply. Graded pass or fail, credit cannot be applied to degree requirements. Fall.
3621. **Introduction to Pathology**  This course introduces premedical students to presentation, physical findings, etiology and basic treatment of a number of common diseases and conditions. Special course fees may apply. Prerequisite, ZOOL 1043 and 1041. Enrollment limited to premedical students. Graded pass or fail; credit cannot be applied to degree requirements. Spring.

4001. **Fishery Biology**  Identification, ecology, food habits, management, and behavior of fishes. Lecture one hour per week. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Summer, even.

4002. **Fishery Biology Laboratory**  Four hours per week. To be taken concurrently with ZOOL 4001. Special course fees may apply. Summer, even.

4012. **Animal Histology**  Cells and tissues of the organ systems of vertebrates. Lecture two hours per week. Special course fees may apply. Prerequisites, ZOOL 3002 and 3012. Spring.

4022. **Animal Histology Laboratory**  Four hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4012. Spring.

4031. **Mammalogy Laboratory**  Three hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4032. Fall, even.

4032. **Mammalogy**  Classification, distribution, structure, ecology, adaptations, and economic importance of mammals. Lecture two hours per week. Prerequisites, ZOOL 1041 and 1043. Fall, 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. Special course fees may apply. Prerequisites, ZOOL 4001 and 4002. Summer.

4052. **Applied Fisheries**  Field course in which principles are applied within several fisheries management settings. Intended for the Wildlife Ecology and Management major. Special course fees may apply. Prerequisite, ZOOL 4001. Summer.

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. Special course fees may apply. To be taken concurrently with ZOOL 4071. Prerequisites, ZOOL 1041 and 1043. Spring.

4071. **Animal Embryology Laboratory**  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4063. Spring.

4151. **Wildlife Management Laboratory**  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4153. Spring.

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. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Fall, even.

4161. **Mammalian Neurobiology Laboratory**  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4163. Summer, even every 4 years.

4163. **Mammalian Neurobiology**  A detailed study of the mammalian nervous system with particular emphasis on morphological aspects. Lecture three hours per week. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043, or 2001 and 2003, or permission of instructor. Fall, odd.

4201. **Animal Ecology Laboratory**  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4202. Fall, 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. Special course fees may apply. Prerequisites, BIOL 3121 and 3122. Fall, odd.

4222. **Parasitology**  Parasites of vertebrates and plants, with emphasis on protozoa and helminth parasites of man and domestic animals. Lecture two hours per week. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Spring.

4232. **Parasitology Laboratory**  Four hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4222. Spring.

4241. **Ichthyology Laboratory**  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4242. Fall, even.

4242. **Ichthyology**  Taxonomy, distribution, natural history, and economic importance of fishes, with emphasis on Arkansas species. Lecture two hours per week. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Fall, even.

4251. **Herpetology Laboratory**  Two hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4252. Spring, 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. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Spring.

4261. **Ornithology Laboratory**  Three hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4263. Spring, even.

4263. **Ornithology**  Morphology, physiology, taxonomy, behavior, ecology, natural history, zoogeography, and evolution of birds. Lecture three hours per week. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Spring.

4271. **Wildlife Management Investigational Techniques Laboratory**  Three hours per week. Special course fees may apply. To be taken concurrently with ZOOL 4273. Spring.

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. Special course fees may apply. Prerequisites, ZOOL 1041 and 1043. Spring, odd.

4363. **Comparative Vertebrate Reproduction**  This combined lecture and lab course surveys major events in the vertebrate reproductive cycles and patterns. Special course fees may apply. Prerequisites, ZOOL 3161 and ZOOL 3163, or ZOOL 3203 and ZOOL 3201. Dual listed ZOOL 5363. Fall even.

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. Special course fees may apply. Must be approved by adviser or chair. Fall, Spring, Summer.
### DEPARTMENT OF CHEMISTRY AND PHYSICS

**Chemistry (CHEM)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1003</td>
<td>Introduction to Chemistry</td>
<td>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. Special course fees may apply. Corequisite, MATH 0003, MATH 0013, or MATH 1023. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>1011</td>
<td>General Chemistry I Laboratory</td>
<td>Three hours per week. Special course fees may apply. Credit for this course is contingent upon earlier or simultaneous completion of CHEM 1013. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>1013</td>
<td>General Chemistry I</td>
<td>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 thermochmistry. Special course fees may apply. Corequisite, MATH 0013 or MATH 1023. Prerequisite, CHEM 1003 or high school chemistry strongly recommended. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>1021</td>
<td>General Chemistry II Laboratory</td>
<td>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. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>1023</td>
<td>General Chemistry II</td>
<td>Study of liquids, solids, solutions and the fundamentals of chemical kinetics, chemical equilibria, acids and bases, thermodynamics, and electrochemistry. Special course fees may apply. Prerequisites, CHEM 1011 and CHEM 1013. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>1031</td>
<td>Introduction to Organic and Biochemistry Laboratory</td>
<td>Three hours per week. Not open to chemistry majors. Special course fees may apply. Prerequisites, CHEM 1011 and CHEM 1013. Corequisite, CHEM 1033. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>1033</td>
<td>Introduction to Organic and Biochemistry</td>
<td>Emphasis on applications to body functions. Lecture three hours, laboratory three hours. Not open to chemistry majors. Special course fees may apply. Prerequisite, CHEM 1011 and CHEM 1013. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>2004</td>
<td>Descriptive Inorganic Chemistry</td>
<td>Systematic study of the chemistry of the elements with problem solving using microcomputers. Lecture four hours per week. Special course fees may apply. Prerequisite, CHEM 1021 and 1023. Fall.</td>
</tr>
<tr>
<td>3054</td>
<td>Quantitative Analysis</td>
<td>Emphasizes quantitive analysis based on wet chemical methods and modern instrumentation. Topics include statistics, gravimetry, acid-base, redox and complex ion equilibria, absorptometry and electroanalytical methods. Lecture two hours, laboratory six hours per week. Special course fees may apply. Prerequisites, CHEM 1021 and 1023. Spring.</td>
</tr>
<tr>
<td>3101</td>
<td>Organic Chemistry I Laboratory</td>
<td>Laboratory skills illustrating the principles of Organic Chemistry I. Three hours per week. Special course fees may apply. Corequisite or prerequisite, CHEM 3103. Credit for this course is contingent upon earlier or simultaneous completion of CHEM 3103. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>3103</td>
<td>Organic Chemistry I</td>
<td>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. Special course fees may apply. Prerequisites, CHEM 1023 and CHEM 1021. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>3111</td>
<td>Organic Chemistry II Laboratory</td>
<td>Laboratory skills illustrating the principles of Organic Chemistry II. Three hours per week. Special course fees may apply. Prerequisite, CHEM 3101. Credit for this course is contingent upon earlier or simultaneous completion of CHEM 3113. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>3113</td>
<td>Organic Chemistry II</td>
<td>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. Special course fees may apply. Prerequisite, CHEM 3103. Fall, Spring, Summer.</td>
</tr>
<tr>
<td>3124</td>
<td>Physical Chemistry I</td>
<td>Systematic rigorous development of fundamental chemical concepts presented in a unified lecture and laboratory format. Special course fees may apply. Prerequisites, PHYS 2044 or PHYS 2064, and MATH 3254. Fall.</td>
</tr>
<tr>
<td>3134</td>
<td>Physical Chemistry II</td>
<td>Systematic, rigorous development of fundamental chemical concepts presented in a unified lecture and laboratory format. Prerequisite, CHEM 3124. Spring.</td>
</tr>
<tr>
<td>3154</td>
<td>Survey of Physical Chemistry</td>
<td>A one semester course exploring the systematic development of fundamental chemical concepts. Special course fees may apply. Prerequisites, PHYS 2034, 2044 or PHYS 2054, 2064, MATH 2204, CHEM 3113. Spring.</td>
</tr>
<tr>
<td>4043</td>
<td>Environmental Chemistry</td>
<td>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 and control procedures will be covered. Special course fees may apply. Prerequisites, CHEM 3103 and CHEM 3101. Fall, even.</td>
</tr>
<tr>
<td>4201</td>
<td>Biochemistry Laboratory</td>
<td>Experiments aimed to acquaint the student with the chemistry profession. Special course fees may apply. Prerequisite, CHEM 3103. Spring.</td>
</tr>
<tr>
<td>4204</td>
<td>Inorganic Chemistry</td>
<td>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. Special course fees may apply. Prerequisites, CHEM 3103. Spring.</td>
</tr>
<tr>
<td>4224</td>
<td>Instrumentation</td>
<td>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. Special course fees may apply. Prerequisites, CHEM 3054, CHEM 3121, and CHEM 3123. Fall, Spring.</td>
</tr>
<tr>
<td>4232</td>
<td>Chemical Literature</td>
<td>Systematic study of chemical literature and its use in the chemistry profession. Special course fees may apply. Spring.</td>
</tr>
<tr>
<td>4241</td>
<td>Biochemistry</td>
<td>Experiments aimed to acquaint the student with problems and more important methods of biochemical research. Laboratory three hours per week. Special course fees may apply. Corequisite, CHEM 4243. Fall.</td>
</tr>
<tr>
<td>4243</td>
<td>Biochemistry</td>
<td>Presentation of the important areas of modern biochemistry and a description of methods commonly employed in biochemical research. Lecture three hours per week. Special course fees may apply. Prerequisites, CHEM 3113 and 3111. Fall.</td>
</tr>
<tr>
<td>4254</td>
<td>Fundamentals of Mass Spectrometry</td>
<td>Special topics in spectrochemical analysis. Atomic and molecular spectrometry, surface analytical methods, and their applications to forensic, environmental, atmospheric, geochemical, and bioanalytical problems. Integrated lecture and laboratory format. Special course fees may apply. Prerequisite, CHEM 3054 and CHEM 4244. Spring.</td>
</tr>
<tr>
<td>4263</td>
<td>Radiochemical Techniques</td>
<td>Radioactivity and its uses as related to chemical, physical, and geological problems. Lecture two hours, laboratory three hours per week. Special course fees may apply. Prerequisites, CHEM 3124. Fall, odd.</td>
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</table>
427V. Research in Chemistry Directed study in some specialized phase of chemistry designed to provide experience in independent investigations. Special course fees may apply. Prerequisite, permission of the Chemistry Departments Independent Studies Committee. Fall, Spring, Summer.

4281. Chemistry Seminar Directed study in some specialized phase of chemistry designed to provide experience in independent investigations. Special course fees may apply. Prerequisite, permission of the Chemistry Departments Independent Studies Committee. Fall, Spring, Summer.

4343. Pharmacology The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, ZOOL 2003 and 2013 or ZOOL 3153 and 3253, BIOL 4014, and CHEM 4243. Spring.

4353. Advanced Analytical Chemistry The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, ZOOL 2003 and 2013 or ZOOL 3153 and 3253, BIOL 4014, and CHEM 4243. Spring.

Forensic Science (FOSC)

2013. Forensic Science Survey An overview of forensic science including techniques in crime scene investigation, physical evidence collection and analysis, and expert testimony. Special course fees may apply. Fall.

2113. Forensic Science Professional Practice Introduction of ethics and methods of forensic science from the perspective of practicing professionals including case studies and seminars. Special course fees may apply. Prerequisite, FOSC 2013.

3853. Computer Forensics Students are introduced to information systems role in forensic computing. Emphasis will be on the retrieval, preservation, and analysis of computer data which might be used in legal cases. Special course fees may apply. Prerequisites, CRIM 2253, FOSC 2013. Fall.

411V. 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 forensic biology. Special course fees may apply. Special course fees may apply. Prerequisite, permission of the Forensic Science Internship Coordinator. Fall, Spring, Summer.

427V. Special Problems in Forensic Science Topical or technique driven seminar relating to the forensic sciences that will lead to the training of students in a body of work, such as newly developed research technique and approach. Number of credit hours will vary. May be taken for a maximum of 3 hours. Special course fees may apply. Prerequisite, Permission of the instructor. Fall, Spring, Summer.

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. Fall, Spring.

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. Fall, Spring.

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. Spring.

4331. Hydrogeology Laboratory Laboratory associated with GEOL 4333. Three hours per week. Corequisite, GEOL 4333. Spring.

4333. 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. Prerequisites, CHEM 1021, CHEM 1023, GEOL 1001 and GEOL 1003. Corequisite, GEOL 4331.

Physical Science (PHSC)

1201. Physical Science Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with PHSC 1203. Fall, Spring, Summer.

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. Special course fees may apply. To be taken concurrently with PHSC 1201. Prerequisite, MATH 0013 or ACT Mathematics score of 16. Fall, Spring, Summer.

Physics (PHYS)

1101. Introduction to Space Science Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with PHYS 1103. Fall, Spring.

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. Special course fees may apply. Prerequisite, MATH 0013 or ACT Math score of 16. Fall, Spring.

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 and lab format. 6 hours per week. Special course fees may apply. This course may be substituted for PHYS 2053 and 2051. This course will meet the General Education Requirements for Physical Science. Corequisite, MATH 2204. Fall, Spring, Summer.
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 and lab format. 6 hours per week. Special course fees may apply. Special course fees may apply. Prerequisite, PHYS 2034 or 2053 and 2051. This course may be substituted for PHYS 2063 and 2061 or for PHYS 2083 and 2081. Corequisite, MATH 2214. Fall, Spring, Summer.

2054. General Physics I The essential of mechanics, heat, materials and simple harmonic motion in a unified lecture and laboratory format utilizing multimedia computers at each student station. Six hours per week. This course will meet the General Education Program requirements for physical science. PHYS 2034 may be substituted. Special course fees may apply. Special course fees may apply. Prerequisite, MATH 1033. Fall, Spring, Summer.

2064. General Physics II Continuation of PHYS 2054, the essentials of electricity, magnetism, wave motion, light and modern physics in a unified lecture and laboratory format utilizing multimedia computers at each student station. Six hours per week. PHYS 2044 may be substituted for this course. Special course fees may apply. Prerequisite, PHYS 2054 or 2034. Fall, Spring, Summer.

2071. Fundamental Physics I Laboratory Two hours per week. Special course fees may apply. Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2073. Fall, Spring, Summer.

2073. Fundamental Physics I Basic principles of mechanics, special relativity, thermodynamics, and wave motion utilizing calculus. Lecture three hours per week. Special course fees may apply. Students enrolling in this course should enroll in Laboratory for Fundamental Physics I. Corequisite, MATH 2204. Fall, Spring, Summer.

2081. Fundamental Physics II Laboratory Two hours per week. Special course fees may apply. Prerequisites, PHYS 2071 and 2073. Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2083. Fall, Spring, Summer.

2083. Fundamental Physics II Continuation of PHYS 2073. Covering electricity, magnetism, optics, and modern physics. Lecture three hours per week. Special course fees may apply. Students enrolling in this course should enroll in Laboratory for Fundamental Physics II. Corequisite, MATH 2214. Prerequisites, PHYS 2071 and 2073. Fall, Spring, Summer.

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. Special course fees may apply. Summer.

3052. Relativity Quantitative introduction to the special theory of relativity with a brief qualitative introduction to general relativity. Special course fees may apply. Prerequisites, PHYS 2044 or 2064 or PHYS 2081 and 2083. Demand.

3103. 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. Special course fees may apply. Corequisite, MATH 3254. Prerequisites, PHYS 2044 or 2064. Spring, even.

3133. Astronomy Theories of the origin, development, present state, and future of the universe, with special emphasis on the place of astronomy in mans cultural and scientific development. Special course fees may apply. Fall, Spring, Summer.

3153. Mechanics Particle dynamics in inertial and accelerated reference frames. Newtons law of gravitation, orbit theory, and elementary rigid body dynamics. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 2214 and PHYS 2044 or 2064. Fall.

3203. Electromagnetic Theory Electrostatics, electric and magnetic properties of materials. Ampere's and Faradays laws, and Maxwells equations. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 3254 and PHYS 2044 or PHYS 2044. Spring.

3253. Optics Geometrical optics and physical optics, including interference, diffraction, dispersion, absorption, and polarization of light. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 2214 and PHYS 2044 or 2064. Spring, odd.

3272. Physical Instrumentation I Design and use of physical instruments, including data reduction. Laboratory four hours per week. Special course fees may apply. Prerequisites, PHYS 2044 or 2064. Fall, odd.

3282. Physical Instrumentation II A continuation of PHYS 3272, including advanced data reduction techniques. Laboratory four hours per week. Special course fees may apply. Prerequisites, PHYS 2044 or 2064. Spring, even.

3303. Modern Physics An elementary study of the atomic nature of matter and nuclear structure of the atom. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 2214, and PHYS 2044 or 2064. Fall.

4353. Mathematical Physics The mathematical aspects of classical physics including Newtons laws, Lagrangian and Hamiltonian dynamics, Electrodynamics and Relativity. Lecture three hours per week. Special course fees may apply. Prerequisites, PHYS 3303 and MATH 3254. Fall, even.

4403. Nuclear and Particle Physics Introduction to the structure of the nucleus, nuclear scattering and decay processes, mesons, nucleons, and quarks. Lecture three hours per week. Special course fees may apply. Prerequisite, PHYS 3303. Spring, odd.

4432. Advanced Physics Laboratory I Experiments in classical and modern physics. Laboratory four hours per week. Special course fees may apply. Prerequisites, PHYS 2044 or 2064. Fall, even.

4442 Advanced Physics Laboratory II Continuation of PHYS 4432, including individual student projects. Special course fees may apply. Laboratory four hours per week. Prerequisite, PHYS 2044 or 2064. Spring, odd.

4463. Advanced Mechanics The Lagrangian and Hamiltonian formulations, rigid body mechanics, and special relativity. Special course fees may apply. Prerequisite, PHYS 3153. Spring.

4513. Advanced Electromagnetic Theory Maxwells equations as applied to waveguides, radiation, and wave propagation in various media. Lecture three hours per week. Special course fees may apply. Prerequisite, PHYS 3203. Fall.

4533. 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. Special course fees may apply. Prerequisite, 20 hours of physics. Demand.

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. Special course fees may apply. Prerequisite, 20 hours of physics. Spring, even.

4571. Physics Seminar Prerequisite, Fourteen hours of physics. Special course fees may apply. Demand.

459V. Research in Physics Prerequisite, Fourteen hours of physics. Special course fees may apply. Demand.
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. Special course fees may apply. Prerequisite, Twenty hours of Physics. Fall, Spring.

**Teaching Internship (TI__ __)**

TICH 4825. CHEMISTRY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TICH 4826. CHEMISTRY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

TIPH 4825. PHYSICS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

TIPH 4826. PHYSICS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

**DEPARTMENT OF COMPUTER SCIENCE**

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. Fall, Spring, Summer.

2171. Introduction to Programming Laboratory 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. Fall, Spring.

2181. Structured Programming Laboratory Two hours per week. Corequisite, CS 2183. Fall, Spring.

2183. Structured Programming First course in programming, emphasis on programming methodology, procedural abstraction, and top down design. Introduction to string processing, file input and output, recursion, and simple data structures. Prerequisite, MATH 1023 or equivalent. Corequisite, CS 2181. Fall, Spring.

2191. Object-Oriented Programming Laboratory Two hours per week. Corequisite, CS 2193.


3333. Assembly Language Programming Basic concepts of computer systems and architecture. Programming and debugging of assembly language programs. Prerequisites, CS 2183 and CS 2181. Fall.

3363. Data Structures Analysis of data structures and associated algorithms. Examination of advanced tree structures, heaps, hashing techniques, and graph algorithms. Prerequisites, CS 2193, CS 2191, MATH 2183, and one of MATH 2204, MATH 2143 or MATH 2194. Fall.

3383. Computer Architecture Basic principles of computer architectural design including instruction set principles, pipelining, instruction level parallelism, memory hierarchy, storage systems, and multiprocessing. Prerequisite, MATH 2204, CS 3333 and ECIE 3333. Fall, Spring.

3453. Operating Systems Policies, design issues, and implementation techniques for operating system software. Synchronization, process scheduling, memory and storage management, and system protection. Prerequisite, CS 3333 or CS 3363. Fall.

3543. Programming Languages Survey of organization and behavior of programming languages. Examination of data typing, control structures, syntactic representation and specification. Prerequisites, CS 2192 and CS 2191. Spring.

4373. Database Systems Topics include major database models, relational algebra, data independence and database normalization, entity relationship model, security, integrity, recovery, and concurrency issues, physical organization of a database. Prerequisite, CS 3363. Fall.

4393. Automata Theory Study formal languages and equivalent models of computation, finite state automata and regular expressions, push down automata and context free grammars, pumping lemmas and closure properties, and turing machines. Prerequisite, CS 3363. Spring, even.

4463. Computer Networks Issues and principles involved in the design of computer networks using the OSI reference model as a framework. Prerequisite, CS 3453. Spring.

4473. Distributed Computing Study of client server systems, distributed databases, distributed transaction processing, and distributed applications. Provides overview of recent trends in distributed object technologies. Applications will be designed and constructed using object software architectures. Prerequisites, CS 3363 Data Structures. Summer.

4483. Artificial Intelligence Representation of knowledge and introduction to a functional programming language, search methods and control. Typical applications of artificial intelligence. Prerequisite, CS 3363. Fall, odd.

4493. Computer Graphics I Creation, storage, and manipulation of graphical models of objects. Implementation of graphics routines in both two and three dimensional techniques. Prerequisite, CS 3363. Fall, even.


4523. Software Engineering I Techniques of design, implementation, automated tools, quality assurance, metrics, and maintenance for large scale software systems. Projects include team programming experience. Prerequisite, CS 3363. Fall.

4531. 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. Demand.

4533. Software Engineering II Continuation of Software Engineering I. Projects will provide team programming experience. Prerequisite, CS 4523. Spring.

454V. Internship Supervised work experience participating in application system development in a business and manufacturing environment. Grade earned will be pass or fail. Prerequisites. Permission of the Computer Science faculty and CS 3363. Demand.

457V. 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. Demand.
DEPARTMENT OF MATHEMATICS AND STATISTICS

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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

1143. Finite Mathematics Selected topics include linear systems, matrices, linear equalities, linear programming simplex method, probability, combinatorics, statistics and finance application. Prerequisites, MATH 1023. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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, extrema and concavity of functions of one and several variables. Will not satisfy requirements for mathematics degrees. Prerequisite, MATH 1023 or MATH 1054 or a Math ACT score of 24 or an SAT score of 660. Fall, Spring, Summer.

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. Fall, Spring, Summer.

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. Spring.

2204. Calculus I Limits, derivatives, implicit differentiation, applications of the derivative, indefinite integrals, 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 1053 or MATH 1054. Fall, Spring, Summer.

2214. Calculus II Inverse trigonometric functions, hyperbolic functions, integration by parts, trigonometric substitution, partial fractions, integral tables, approximating definite integrals, Taylor's Theorem, LHospitals Rule, improper integrals, sequences, series, power series, Taylor series, parametric curves, arc length, surface area and polar coordinates. Prerequisite, MATH 2204. Fall, Spring, Summer.

3243. Linear Algebra Introduction to vector spaces, with application to matrix theory. Prerequisite, MATH 2214. Spring, Summer.

3254. Calculus III Vectors, lines, and planes in two and three dimensions, vector equations and probability modeling. Prerequisites, High School Algebra II and score of 24 or above on math ACT or 660 or above on SAT, or MATH 1023 and MATH 1053 or MATH 1054. Fall, Spring, Summer.

3256. Functions and Modeling Functions, limits, derivatives, integral calculus, applications, optimization problems, and partial derivatives. Prerequisite, MATH 2204. Fall.

3263. Differential Equations Topics in the elementary theory of differential equations, including existence theorems. Prerequisite, MATH 3254. Fall, Spring.
4533. Numerical Methods Algebraic, transcendental, ordinary and partial differential equations, finite differences, and integral equations. Numerical integration, error analysis, and other topics of numerical analysis utilizing high speed computer techniques. Prerequisites, MATH 2214 and CS 2163 or 2183. Fall, 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. Fall, Summer, even.

4563. Advanced Calculus II Continuation of MATH 4553. Prerequisite, MATH 4553. Spring, Summer, even.

4581. Mathematics Seminar Prerequisite, MATH 3303. Demand.

459V. Special Problems in Mathematics Prerequisite, MATH 3303. Demand.

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. Fall, Spring, Summer.

4453. Probability and Statistics I Probability spaces, random variables, probability distributions, independence, conditioning, probability laws, sampling theory, and associated topics. Prerequisite, MATH 3254. Fall.

4463. Probability and Statistics II Point and interval estimation, testing hypotheses, standard statistical tests, correlation and regression, and nonparametric methods. Prerequisite, STAT 4453. Spring.

4473. Data Analysis Topics include simple linear regression, multiple linear regression, and analysis of variance, ANOVA. Prerequisite, STAT 3233 or equivalent. Spring.

Teaching Internship (TIMA)

4825. MATH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL Ten semester hours. Full semester teaching internship. Fall, Spring.

4826. MATH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL 12 semester hours. Full semester teaching internship. Fall, Spring.

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

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.

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. Fall, Spring.
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.

THE ADVANCED COURSE

The ROTC Advanced Course consists of four courses designed to be taken one each semester during the junior and senior years (or graduate school). Students must attend the Leader Development and Assessment Course (LDAC) between their MSL III and MSL IV year. Upon entry into the Advanced Course, a student must sign a contract recognizing a service obligation. The obligation may be served in either the reserve components (Reserve Component duty can be guaranteed) or the Active Army (depending on the needs of the Army). Cadets in the Advanced Course receive textbooks, uniforms, and a nontaxable subsistence allowance (10 months per year), as well as pay for attending the LDAC. Prerequisites for admission to the Advanced Course are:

(1) Completion of the Basic Course, the Leaders Training Course, or U.S. Armed Forces Basic Training.
(2) Physical qualification as determined by medical examination.
(3) Selection by Professor of Military Science.
(4) Under 32 years of age by the time of graduation (may be waived in certain cases).
(5) Pass a screening evaluation.
(6) At least two academic years remaining before graduation or be enrolled in graduate school.
(7) A grade point average of 2.00 or better for all college work and completion of at least sixty semester hours of college work towards a baccalaureate degree. Applicants will normally be required to have achieved “junior” academic status.

In addition to the Military Science and Leadership courses, advanced course students must complete professional military education courses in the fields of Written Communication, Computer Literacy, Mathematic Reasoning, Human Behavior, and Military History. The Communication, Human Behavior, and Mathematic Reasoning requirements are normally met by the General Education Courses offered by the university. The Military History requirement must be met by completing one of several history classes offered. (Specific course requirements will be prescribed by the PMS, based on a review of the student’s enrollment into the advanced course.) Field Training Exercises will be conducted to provide practical experience as required to supplement classroom training.

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 complete the application 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 $450-$500 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 (E5 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 participation in 1 hour physical fitness session. Fall, Spring.

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 participation in 1 hour physical fitness session. Fall, Spring.

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. Fall.

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 is optional for those students not on ROTC scholarship. Prerequisites, both MSL I courses. Spring.

209V. Leadership Training Course  A four week summer camp conducted at Fort Knox, Kentucky. The student receives pay. Travel, lodging, and most meals 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, which is paid 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. Summer.

2102. Military History  Special topics in military history. Instructor approval required. Prerequisites, both MSL I courses. Fall, Spring.

**ADVANCED COURSES**

A prerequisite for entrance into the Advanced Course is completion of the Advanced 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. Fall.

3063. Leadership and Ethics  Probes leader responsibilities that foster an ethical command climate. Develop cadet leadership competencies. Prepare for success at Leader Development and Assessment Course - LDAC. Recognize leader responsibility to accommodate subordinate spiritual needs. Apply principles and techniques of effective written and oral communication. Spring.

4073. Leadership and Management  Builds on National Advanced Camp 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 and simulation. Fall.

4083. Officership  Capstone course designed to explore topics relevant to second lieutenants entering the Army. Describe legal aspects of decision making and leadership. Analyze Army organization for operations from the tactical to strategic level. Assess administrative and logistics management functions. Discuss reporting and Permanent Change of Station, PCS, process. Perform platoon leader actions. Examine leader responsibilities that foster an ethical command climate. Spring.

409V. Special Problems  Individually selected material directed towards the field of Military Leadership or Military History. This course must be arranged in consultation with the Professor or Military Science. A course outline and goals will be kept on file with the Training Officer of this department.

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**

<table>
<thead>
<tr>
<th>Component</th>
<th>Sem. Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Basic Course</td>
<td>6 hrs</td>
</tr>
<tr>
<td>MSL 1011, Foundations of Officership</td>
<td>1 hr</td>
</tr>
<tr>
<td>MSL 1021, Basic Leadership</td>
<td>1 hr</td>
</tr>
<tr>
<td>MSL 2032, Individual Leadership Studies</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MSL 2042, Leadership and Teamwork</td>
<td>2 hrs</td>
</tr>
<tr>
<td>B. Advanced Course</td>
<td>12 hrs</td>
</tr>
<tr>
<td>MSL 3053, Leadership and Problem Solving</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MSL 3063, Leadership and Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MSL 4073, Leadership and Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MSL 4083, Officership</td>
<td>2-3 hrs</td>
</tr>
<tr>
<td>C. Military History Course</td>
<td>2-3 hrs</td>
</tr>
</tbody>
</table>

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.
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. Business Administration - B.S. Business Management - 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.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.

Ozarka 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. See the “University General Requirements for all Baccalaureate Degrees” in this bulletin to determine how many credit hours of correspondence will apply to any specific 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:

<table>
<thead>
<tr>
<th>Course</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>

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2003 and 2013, Principles of Accounting I and II</td>
<td>6</td>
</tr>
<tr>
<td>CA 2003, Introduction to Computing/BASIC</td>
<td>3</td>
</tr>
<tr>
<td>CA 3023, FORTRAN Programming Applications I</td>
<td>3</td>
</tr>
<tr>
<td>CA 3033, Principles of Computer Electronics</td>
<td>3</td>
</tr>
<tr>
<td>CA 3043, COBOL Programming Applications I</td>
<td>3</td>
</tr>
<tr>
<td>CA 3063, RPS Programming Applications I</td>
<td>3</td>
</tr>
<tr>
<td>CA 4023, Computer Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CA 4043, Data Base Systems Applications</td>
<td>3</td>
</tr>
<tr>
<td>CA 4053, COBOL Programming Applications II</td>
<td>3</td>
</tr>
<tr>
<td>CA 4063, Computer Organization and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CA 4073, Systems Programming Applications</td>
<td>3</td>
</tr>
<tr>
<td>CA 4083, Computer Center Operations</td>
<td>3</td>
</tr>
</tbody>
</table>
ECON 2313 and 2323, Principles of Macroeconomics and Principles of Microeconomics .............................................. 3-6
ENG 3043, Technical Writing ................................................. 3
MATH 1023, College Algebra ............................................. 3
MATH 2144, Mathematics with Applications in Business and Economics ................................................................. 4
MGMT 3123, Organizational Management ........................................ 3
MGMT 3203, Operations Management ....................................... 3
SOMC 3203, Business and Professional Speech Communication ............................................................................. 3
STAT 3203, Applied Statistics ............................................... 3
TECH 1113, Operations Systems Research ....................................... 3

Natural Science Elective with Lab ................................................... 4
OR
SOC 2213, Principles of Sociology ........................................... 4
PSY 2013, Introduction to Psychology .............................................. 3
OR
PE 1002, Concepts of Fitness ................................................ 2
POSC 2103, Introduction to United States Government .......................................................................... 3
OR
HIST 2763, United States History To 1876 OR HIST 2773, United States History Since 1876 OR
POSC 2103, Introduction to United States Government .......................................................................... 3
MATH 1023, College Algebra ............................................. 3
PE 1002, Concepts of Fitness ................................................ 2
SOG 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology ........................................ 3
Fine Arts or Humanities Elective ...................................................... 3
Natural Science Elective with Lab ................................................... 4

Total 124

Major Requirements: (62 credits required)
AST 1107, Automotive Engine Repair ...................................... 7
AST 1209, Automotive Electrical/Electronic Systems ......................... 9
AST 1306, Automotive Suspension and Steering .............................. 6
AST 1408, Automotive Engine Performance ..................................... 8
AST 1504, Automotive Brake System ............................................. 4
AST 2106, Automatic Transmissions/Transaxles .................................. 8
AST 2208, Automotive Manual Drive Train and Axles ......................... 8
AST 1606, Automotive Heating and Air Conditioning ....................... 6
COM 1203, Technical Communications ........................................... 3
MTH 1203, Technical Mathematics (or related lab) ......................... 3

Total 62*

*Hours include extensive hands-on laboratory work

Associate in Applied Science
Major in Automotive Technology

General Education Requirements:
CIT 1503, Computer Applications for Business ................................ 3
ENG 1003, Composition I ......................................................... 3
ENG 1013, Composition II ....................................................... 3
HIST 2763, United States History To 1876 OR HIST 2773, United States History Since 1876 OR
POSC 2103, Introduction to United States Government ......................... 3
MATH 1023, College Algebra ............................................. 3
PE 1002, Concepts of Fitness ................................................ 2
SOG 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology ........................................ 3
Fine Arts or Humanities Elective ...................................................... 3
Natural Science Elective with Lab ................................................... 4

Total 27

Data Processing Emphasis:
BUS 1013, Business Communications ........................................... 3
BUS 1003, Business English ....................................................... 3
BUS 1113, Mathematics with Business Applications ......................... 3
BUS 1123, Accounting I ........................................................... 3
BUS 1203, Keyboarding ............................................................. 3
BUS 1563, Administrative Support Procedures AND BUS 1413, Multimedia Applications
OR BUS 1133, Accounting II AND BUS 1143, Computer Applications for Accounting 6
BUS 1313, Software Applications .................................................... 3
BUS 1373, Microcomputer Applications/Database .............................. 3
BUS 1383, Microcomputer Spreadsheet Applications .................................. 3
BUS 1513, Word Processing I .................................................... 3
BUS 1503, Word/Information Processing I ............................................ 3
BUS Elective ................................................................. 3

Total 38

Secretarial Emphasis:
BUS 1003, Business English ....................................................... 3
BUS 1013, Business Communications ........................................... 3
BUS 1113, Mathematics with Business Applications ......................... 3
BUS 1123, Accounting I ........................................................... 3
BUS 1203, Keyboarding ............................................................. 3
BUS 1373, Microcomputer Applications/Database .............................. 3
BUS 1383, Microcomputer Applications/Spreadsheet .................................. 3
BUS 1403, Desktop Publishing ...................................................... 3
BUS 1503, Word/Information Processing I ............................................ 3
BUS 1513, Word/Information Processing II .......................................... 3
BUS 1523, Machine Transcription .................................................. 3
BUS 1563, Administrative Support Procedures ...................................... 3
BUS Elective ................................................................. 3

Total 39

Computerized Accounting Emphasis:
BUS 1003, Business English ....................................................... 3
BUS 1013, Business Communications ........................................... 3
BUS 1113, Mathematics with Business Applications ......................... 3
BUS 1123, Accounting I ........................................................... 3
BUS 1133, Accounting II ........................................................... 3
BUS 1143, Computer Applications for Accounting .................................. 3
BUS 1203, Keyboarding ............................................................. 3
BUS 1383, Microcomputer Applications/Spreadsheet .................................. 3
BUS 1503, Word/Information Processing I ............................................ 3
BUS 1513, Word/Information Processing II .......................................... 3
BUS 1563, Administrative Support Procedures ...................................... 3
BUS Elective ................................................................. 3
BUS Elective ................................................................. 3

Total 39

Associate in Applied Science
Major in Digital Electronic Technology

General Education Requirements:
BUS 1303, Computer Applications for Business ......................... 3
ENG 1003, Composition I ......................................................... 3
ENG 1013, Composition II ....................................................... 3
HIST 2763, United States History To 1876 OR HIST 2773, United States History Since 1876 OR
POSC 2103, Introduction to United States Government ......................... 3
MATH 1023, College Algebra ............................................. 3
PE 1002, Concepts of Fitness ................................................ 2
SOG 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology ........................................ 3
Fine Arts or Humanities Elective ...................................................... 3
Natural Science Elective with Lab ................................................... 4

Total 27
Major Requirements:

COM 1203, Technical Communications ................................................................. 3
ECT 1303, Electronic Motors and Programmable Controllers ................................ 3
ECT 1333, Programmable/Logic Controllers .......................................................... 3
ELT 1105, AC Circuits .......................................................................................... 5
ELT 1205, DC Circuits ......................................................................................... 5
ELT 1655, Digital Logic ....................................................................................... 5
ELT 1656, Programming ..................................................................................... 2
ELT 1705, Analog Devices .................................................................................. 5
ELT 1765, CISCO Router Configurations ............................................................... 5
ELT 1800, Network Essentials ............................................................................ 5
ELT 1806, Coding Techniques/Methods/Standards ............................................. 5
ELT 2205, PC Troubleshooting and Repair ........................................................... 4
ELT 2414, Fiber Optics ...................................................................................... 4
ELT 2605, LAN Technologies ............................................................................ 5
ELT 2705, Signal Processing ............................................................................. 5
ELT 2804, WAN Technologies ........................................................................... 4
MTH 1203, Technical Mathematics .................................................................... 3

Total 76

Associate in Applied Science

Major in Paramedics

General Education Requirements: Sem. Hrs.

BUS 1303, Computer Applications for Business .................................................. 3
ENG 1003, Composition I .................................................................................... 3
ENG 1013, Composition II .................................................................................. 3
HIST 2763, United States History To 1876 OR HIST 2773, United States History Since 1876 OR
POSC 2103, Introduction to United States Government ........................................ 3
MATH 1022, College Algebra ............................................................................ 3
PE 1002, Concepts of Fitness ............................................................................ 2
SOC 2213, Principles of Sociology OR PSY 2133, Introduction to Psychology ........ 3
Fine Arts or Humanities Elective ........................................................................ 3
Natural Science Elective with Lab ...................................................................... 4

Total 27

Major Requirements:

EHS 1103, Anatomy and Physiology ..................................................................... 3
EHS 1201, Pre-Hospital .............................................................. 1
EHS 1302, Pharmacology ................................................................. 2
EHS 1306, Preparatory .................................................................................. 6
EHS 1402, Operations Management ................................................................. 4
EHS 1502, Field I ......................................................................................... 2
EHS 1601, Clinical I ...................................................................................... 1
EHS 1704, Medical Emergencies I ................................................................. 4
EHS 1706, Cardiac Emergencies ...................................................................... 6
EHS 1805, Trauma Management ...................................................................... 5
EHS 2404, Special Considerations .................................................................. 4
EHS 2501, Clinical II .................................................................................... 1
EHS 2504, Clinical III ................................................................................... 1
EHS 2603, Field II ...................................................................................... 4
EHS 2702, Medical Emergencies II ................................................................. 2
EHS 2801, Paramedic Practicum ...................................................................... 1
EHS 2902, Assessment Based Management ..................................................... 2

Total 48

COMPUTER APPLICATIONS (CA)

2003. 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 and O.

3023. FORTRAN Programming Applications I ............................................. A study of the FORTRAN programming language, including I and 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 and 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.

4063. Computer Organization and Architecture ....................................... Introduction to the organization and structuring of the major physical components of a computer, and the control and transfer of information within the computer system. Includes logic design, coding, number representation and arithmetic and the functions of, and communications between, major components of a computer system. Prerequisite, CA 4073 or consent of instructor.

4073. Systems Programming Applications ................................................ Introduction to systems programming with emphasis on assembly language programming. Includes computer structure and machine language, I and O operations, addressing techniques, macros, program segmentation and linkage, interpretive routines and assembler construction. Prerequisite, CA 3023 or CA 3043.

4083. Computer Center Operations ............................................................ A comprehensive study of directing a computer center. Emphasis on organization and policies, planning and scheduling, operating controls, equipment installation, layout and maintenance, budgeting and costing practices, performance analysis and managing operations personnel. Prerequisite, CA 4023 and one other 4000 level course and senior standing.

4093. Special Problems in Computer Applications ...................................... Individual problems in computer applications arranged in consultation with the instructor. Must be approved by the department chair.
ROGER W. ABERNATHY, 1985
B.S., Southeast Missouri State University
M.S., Arkansas State University
Ph.D., Clemson University

HARRIETTE ADAMS, 1996
B.S.E., Arkansas State University
M.S., Arkansas State University

THOMAS MYERS ADAMS, II, 1981
B.S., East Carolina University
M.A., East Carolina University
Ed.D., West Virginia University

DAVID AGNEW, 1990
B.S.A.E., University of Tennessee—Martin
M.Ed., Mississippi State University
Ed.D., Mississippi State University

SOOYOUN AHN, 2006
B.S., Yonsei University, South Korea
M.S., Yonsei University, South Korea
Ph.D., Cornell University

LARRY AIKMAN, JR., LTC, 2004
B.S., Henderson State University
M.S., Kansas State University

CINDY ALBRIGHT, 1976
B.S., Northwestern State University
M.Ed., Northwestern State University
Ph.D., Texas Woman’s University

ROY ALDRIDGE, 2000
B.S., University of Tennessee—Memphis

MARTILU ALLEN
B.A., University of Missouri—Columbia
M.A., Michigan—Ann Arbor
Ph.D., University of Michigan—Ann Arbor

SUSAN DAVIS ALLEN, 2002
B.S., Colorado College
Ph.D., University of Southern California

WILLIAM J. ALLEN, 1979
B.A., University of Alabama
M.A., The Johns Hopkins University
Ph.D., The Johns Hopkins University

STACY ALLEY, 2003
B.A., University of Southern California—Los Angeles
M.F.A., University of Alabama—Tuscaloosa

OSABUOHIEN P. AMIENYI, 1989
B.S., Tennessee State University
M.A., Northern Illinois University
Ph.D., Bowling Green State University

ROBIN L. ANDERSON, 1976
A.B., University of California—Berkeley
M.A., University of California—Berkeley
Ph.D., University of California—Davis
LISA BALL-MOSKAL, 2001  
B.A., University of Memphis  
M.A., University of Memphis  
Instructor in Journalism  

KAREN BLUE, 1998  
B.S.N., University of Central Arkansas  
Assistant Professor of Nursing  

DOREA BONNEAU, 2005  
B.S., College of Charleston  
M.Ed., The Citadel  
Ed.D., University of South Carolina  
Assistant Professor of Special Education  

JOE DAVID BONNER, 1984  
B.A., University of Houston  
M.A., Stephen F. Austin State University  
Assistant Professor of Music  

AUDREY BOWSER-BROWN, 1998  
B.S.E., Arkansas State University  
M.S.E., Arkansas State University  
Assistant Professor of Special Education  

PAULA BRADBERRY, 1993  
B.A., Arkansas Tech University  
M.R.C., Arkansas State University  
Instructor/Director of First Year Studies  

MARY JANE BRADLEY, 1987  
B.S.E., Arkansas State University  
M.S.E., Arkansas State University  
Ed.D., Memphis State University  
Associate Professor of Education  

MARY PAT BRAUDIS, 2003  
B.S.B.A., Clarion University of Pennsylvania  
M.B.A., Robert Morris College  
Temporary Instructor in Management/Marketing  

RICHARD BREEDING, 2005  
B.S.B.A., Old Dominion University  
M.S., Radford University  
Ed.D., University of Kentucky  
Assistant Professor of Rehabilitation Counseling  

LORETTA BREWER, 2001  
B.S.W., Western Michigan University  
M.S.W., Western Michigan University  
Ph.D., Michigan State University  
Associate Professor of Social Work  

GLORIA BRIDGES, 2001  
B.S.E., Arkansas State University  
M.E., Arkansas State University  
Instructor in Developmental Studies  

WINFRED P. BRIDGES, 1990  
B.S., University of Tennessee—Knoxville  
M.D., University of Tennessee—Knoxville  
Temporary Instructor in English  

IAN BEINEKE, 2006  
B.S., University of Wisconsin—Madison  
Ph.D., University of Wisconsin—Madison  
Visiting Instructor in Management  

BRADY BANTA, 1997  
B.S., Missouri Valley College  
M.A., Louisiana State University  
Ph.D., Louisiana State University  
Associate Professor of History  

DEEDRA BAREFOOT, 2006  
B.S., University of Southern Mississippi  
M.S., University of Southern Mississippi  
Visiting Instructor in Management  

NEALE K. BARTEE, 1973  
B.S., University of Illinois  
M.Ed., University of Illinois  
Ph.D., University of Illinois  
Professor of Music  

JOHN BEINEKE, 1999  
B.S., New Mexico State University  
M.S., Iowa State University  
Ph.D., University of New Mexico  
Professor of Wildlife Ecology  

ANTHONY BELMONT, 2006  
B.S.N., Arkansas State University  
M.S.N., Trover Foundation/Murray State University Program of Anesthesia  
Clinical Coordinator for Nurse Anesthesia Program  

BOBBY D. BENNETT, 1991  
B.S., Elmira College  
Ph.D., Louisiana State University  
Associate Professor of Environmental Biology  

SANDRA K. BEVILL, 1991  
B.S.E., Arkansas State University  
M.S.E., Arkansas State University  
Ph.D., University of Mississippi  
Associate Professor of Business Systems  

JEROME BIEBESHEIMER, 2000  
B.M., University of Iowa—Iowa City  
M.F.A., University of Iowa—Iowa City  
Director of The Fowler Center  

DANABINGHAM, 2004  
B.S.Ed., Arkansas State University  
M.S., Arkansas State University  
Temporary Instructor in Mathematics  

KRISTIN BIONDOLILLO, 1991  
B.A., West Virginia University  
M.S., Southern Illinois University—Carbondale  
Ph.D., Southern Illinois University—Carbondale  
Associate Professor of Psychology  

JUDY KAY BLEVINS, 2003  
B.A., Quachita Baptist University  
M.A., Arkansas State University  
S.C.C.T., Arkansas State University  
Coordinator of ASU’s Paragould Site  

R. Scott Burcham, 1992
B.A., Arkansas State University
M.A., Arkansas State University
M.S.S.W., University of Tennessee

Kenneth Carroll, 2002
B.A., Arkansas Tech University
M.M., University of Georgia
D.M.A., University of Georgia

Richard Carvell, 1972
B.S., Arkansas State University
M.S., University of Illinois
—Chair, Department of Radio-Television

Jason Causey, 2003
B.S., Arkansas State University
M.S., Arkansas State University

Eric M. Cave, 1995
B.A., Trinity University
M.A., University of California—Irvine
Ph.D., University of California—Irvine

Thomas H. Chaffee, 1968
B.A., Dominican College

Deborah K. Chappel, 1991
B.S.E., Arkansas State University
M.A., Duke University
Ph.D., Duke University

Nola Christenberry, 1988
B.S.E., Arkansas State University
M.S.E., Arkansas State University
—Coordinator, Graduate Counseling Programs

Leslie Christensen, 1998
B.F.A., University of Iowa
M.A., Arkansas State University

Alan Christian, 2002
B.S., University of Wisconsin
M.S., Arkansas State University
Ph.D., Miami University

Doris Chu, 2003
B.A., Central Police University—Taiwan
M.Ed., Oklahoma State University
M.A., State University of New York—Albany
Ph.D., State University of New York—Albany

Brian Church, 2003
B.S., Murray State University
M.A., Murray State University
Ph.D., University of Alabama

Charles R. Carr II, 1975
B.A., Colorado State University
M.A., University of Arizona
Ph.D., University of Arizona

Lauren Schack Clark, 2003
B.A., Central Methodist College

Christy Carroll, 2003
B.S., Auburn University
M.A., University of North Alabama—Florence
Ed.D., University of Alabama—Tuscaloosa

Temporary Assistant Professor of Teacher Education
ASU-Beebe Degree Center

Temporary Assistant Professor of Nursing

R. Scott Burcham, 1992

Kenneth Carroll, 2002

Richard Carvell, 1972

Jason Causey, 2003

Eric M. Cave, 1995

Thomas H. Chaffee, 1968

Deborah K. Chappel, 1991

Nola Christenberry, 1988

Leslie Christensen, 1998

Alan Christian, 2002

Doris Chu, 2003

Brian Church, 2003

Charles R. Carr II, 1975

Lauren Schack Clark, 2003

Christy Carroll, 2003

Temporary Assistant Professor of Teacher Education
ASU-Beebe Degree Center

Temporary Assistant Professor of Nursing
<table>
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<tr>
<th>Name</th>
<th>Position</th>
<th>Institution</th>
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<tr>
<td>JERRY L. CRAWFORD, 1966</td>
<td>Professor of Economics</td>
<td>B.S., Arkansas State University</td>
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<td></td>
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<td>M.A., University of Mississippi</td>
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<td>Ph.D., University of Arkansas—Fayetteville</td>
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<td>LINDA CREIBAUM, 2002</td>
<td>Acquisitions Librarian</td>
<td>B.A., University of Tennessee at Martin</td>
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<td></td>
<td></td>
<td>M.S., University of Illinois at Urbana—Champaign</td>
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<tr>
<td>TIMOTHY CRIST, 1999</td>
<td>Associate Professor of Music</td>
<td>B.M., University of Georgia</td>
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<td>D.M.A., University of Georgia</td>
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<td>WENDY CRIST, 2001</td>
<td>Librarian</td>
<td>B.F.A., University of Georgia</td>
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<td>M.I.S., University of South Carolina</td>
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<td>CRYSTAL CROCKETT, 2004</td>
<td>Temporary Instructor in Accounting</td>
<td>B.S., Arkansas State University</td>
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<td>M.B.A., Arkansas State University</td>
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<td>SAMUEL CRON, II, 2002</td>
<td>Temporary Instructor in Chemistry</td>
<td>B.S., Arkansas State University</td>
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<td>Ph.D., Arkansas State University</td>
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<tr>
<td>WILLIAM R. CRUMPTON, 1980</td>
<td>Associate Professor of Agricultural Engineering</td>
<td>B.S.A.E., Mississippi State University</td>
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<td>M.S.A.E., Mississippi State University</td>
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<td>Ph.D., Mississippi State University</td>
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<td>MICHAEL CUNDAI, 2003</td>
<td>Temporary Assistant Professor of Philosophy</td>
<td>B.A., University of Kentucky</td>
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<td>Ph.D., University of Cincinnati</td>
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<td>RAMIN DAGHIGH, 2003</td>
<td>Temporary Assistant Professor of Physics</td>
<td>M.S., Middle East Technical University—Turkey</td>
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<td>Ph.D., University of Minnesota</td>
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<td>LAWRENCE RAYMOND, 1986</td>
<td>Professor of Economics</td>
<td>B.S., California Polytechnic University</td>
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<td>M.A., Ohio University</td>
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<td>Ph.D., Ohio University</td>
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<td>TERRY DANCER, 1982</td>
<td>Professor of Accounting</td>
<td>B.S.E., Henderson State University</td>
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<td>M.B.A., Henderson State University</td>
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<td>Ph.D., University of Mississippi</td>
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<td>SCOTT DARWIN, 1969</td>
<td>Professor of German</td>
<td>B.A., Hendrix College</td>
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<td>M.A., University of Arkansas—Fayetteville</td>
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<td>Ph.D., University of Arkansas—Fayetteville</td>
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<tr>
<td>ROBIN L. DAUER, 1987</td>
<td>Associate Professor of Music</td>
<td>B.A., Miami University</td>
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<td></td>
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<td>M.M., Cincinnati College—Conservatory of Music</td>
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<td>D.M.A., Cincinnati College—Conservatory of Music</td>
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<td>CLOVIS DAUGHETEE, 2005</td>
<td>Temporary Instructor in Sociology</td>
<td>B.S., Texas A&amp;M University</td>
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<td>M.A., Arkansas State University</td>
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<td>STEPHANIE RENEE DAVIDSON, 2004</td>
<td>Assistant Professor of Early Childhood Education</td>
<td>B.S., Mississippi Valley State University</td>
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<tr>
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<td>M.S., Mississippi Valley State University</td>
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<td>Ph.D., Mississippi State University</td>
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</table>
SUSAN A. DAVIS, 2001
B.S.E., Arkansas State University
M.S.E., Arkansas State University
Temporary Instructor in Teacher Education—Mountain Home

BLAIR DEAN, 1996
B.S.E., Arkansas State University
M.S.E., Arkansas State University
Ph.D., University of Arkansas
Associate Professor of Physical Education

JENNIFER DeCLERC, 2003
B.S., Arkansas State University
Instructor Coordinator—Diagnostic/Medical Sonography Program

ELENA DOMINGUEZ, 2006
B.A., University of Huelva, Spain
M.A., University of Huelva, Spain
Temporary Instructor in Spanish

JOSEPH DONAGHY, 1991
B.S., Fordham College
M.A. Howard University
M.A., University of Alabama
Ed.D., Montana State University
Instructor in Teacher Education

MARY ANDERSON DONAGHY, 1992
B.A., Stanford University
M.A., American University
Ph.D., American University
Assistant Professor of Sociology

CAROLYN DOWLING, 2004
B.A., University of Virginia
M.S., University of Rochester—New York
Ph.D., University of Rochester—New York
Assistant Professor of Chemistry

LAURA S. DOWNING, 1995
B.A., Moorhead State University
M.L.I.S., University of Wisconsin
Reference Librarian/Rotating Team Leader

BARBARA DOYLE, 1988
B.S.E., Arkansas State University
M.S.E., Arkansas State University
Ed.S., Arkansas State University
Director, Assessment Services

MICHAEL B. DOYLE, 1985
B.S., Arkansas State University
M.S., Oklahoma State University
Instructor in Radio-Television

MARK DRAGANJAC, 1985
B.S., Southeastern Oklahoma State University
Ph.D., University of Iowa
Professor of Chemistry

NANCY DRAGANJAC, 1989
B.S., Arkansas State University
M.S., Arkansas State University
Temporary Instructor in Mathematics

LISA DRAKE, 2001
B.S.N., Indiana University Northwest
M.S.N., Arkansas State University
Assistant Professor of Nursing—ASU-Mountain Home

SHAWN DRAKE, 2002
B.S., Arkansas State University
M.S., Arkansas State University
Ph.D., University of Southern Mississippi
Assistant Professor of Physical Therapy

HELEN DUCLOS, 1998
B.A., Arkansas State University
M.A., Arkansas State University
Temporary Instructor in English

JULIA DUNLAP, 1999
B.A., Ouachita Baptist University
M.S., University of Central Arkansas
M.L.I.S., University of Texas at Austin
Catalog Librarian

TIM DURHAM, CPT, 2000
B.S., Arkansas State University
Assistant Professor of Military Science

DELPHINE DURST, 2005
Baccalaureate ES, France
Three-Year Degree, University de Cergy-Pontoise, France
Temporary Instructor in French

CRYSTAL JANE EASTON, 2004
B.S., Ohio State University
M.A., Northern Arizona University
Ph.D., Northern Arizona University
Assistant Professor of Counseling

NATHAN B. EDGAR, 1995
B.S., Arkansas State University
M.S., University of Kansas
Ph.D., University of Kansas
Assistant Professor of Mechanical Engineering

CHRIS EDRINGTON, 2004
B.S., Arkansas State University
M.S., University of Missouri—Rolla
Ph.D., University of Missouri—Rolla
Assistant Professor of Electrical Engineering

DENNY EDWARDS, 1997
B.S., Henderson State University
M.S., Henderson State University
Director, ASU-EACC Degree Center

GARY EDWARDS, 2006
B.A., Abilene Christian University
M.A., Abilene Christian University
Ph.D., University of Memphis
Assistant Professor of History

CARL D. EKSTROM, 2004
M.P.A., Syracuse University
Ph.D., University of Albany
Temporary Associate Professor of Political Science

HENRY ELIASSEN, 2006
B.A., Florida State University
M.S., Florida State University
Ph.D., Florida State University
Temporary Assistant Professor of Sociology

ASHRAF ELSAYED, 2006
B.S., Cairo University, Egypt
M.S., University of Alabama
Ph.D., University of Alabama
Assistant Professor of Civil Engineering

STAFFAN ENGELID, 2006
B.S., Arkansas State University
M.S., University of Central Arkansas—Conway
Ph.D., University of Central Arkansas—Conway
Assistant Professor of Physical Therapy

ROBERT DALE ENGELKEN, 1982
B.S., Arkansas State University
M.S.E.E., University of Missouri—Rolla
Ph.D., University of Missouri—Rolla
Professor of Electrical Engineering

SHERRY ESKRIDGE, 2006
B.A., Arkansas State University
M.L.I.S., Texas Woman’s University
Access Services Librarian

JOSEPH FAIRCHILD, 2005
B.S., Louisiana State University
M.B.A., Louisiana State University
Ph.D., Louisiana State University
Temporary Professor of Accounting
GLORIA GIBSON, 2004  
B.A., Southern Illinois University—Edwardsville  
M.A., Southern Illinois University—Edwardsville  
Ph.D., Indiana University - Bloomington  
Professor of English and Philosophy  
Dean, College of Humanities and Social Sciences

V. STEVEN GREEN, 2006  
B.S., Brigham Young University  
M.S., Purdue University  
Ph.D., Purdue University  
Assistant Professor of Soil and Water Conservation  
Assistant Professor of Nursing - Beebe

J. KENT GIBSON, 1992  
B.S.E., Arkansas State University  
M.S., Arkansas State University  
Temporary Instructor in Mathematics

WILLIAM JAMES GREENWALD, 1972  
B.A., North Texas State University  
Ph.D., University of North Carolina—Chapel Hill  
Associate Professor of History

BEVERLY BOALS GILBERT, 1978  
B.A., University of Mississippi  
M.Ed., University of Mississippi  
Ed.D., University of Mississippi  
Professor of Teacher Education

BERT GREENWALT, 1985  
B.S.A., Arkansas State University  
M.S., University of Arkansas—Fayetteville  
Ph.D., Mississippi State University  
Professor of Agricultural Economics

ERIK GILBERT, 1998  
B.A., William & Mary College  
M.A., University of Vermont  
Ph.D., Boston University  
Professor of History

BERT GREENWALT, 1985  
B.S.A., Arkansas State University  
M.S., University of Arkansas—Fayetteville  
Ph.D., Mississippi State University

JACQUELYN GILBERT, 1999  
B.S., Tuskegee Institute  
M.P.H., University of Oklahoma  
Assistant Professor of Physical Therapy

HEIDI GRIFFIN, 2004  
B.S., Arkansas State University  
M.S., Arkansas State University  
Ph.D., University of North Carolina  
Temporary Instructor in Mathematics

ANNE A. GRIPPO, 1995  
B.S., Fairleigh Dickinson University  
Ph.D., University of North Carolina  
Associate Professor of Biology  
Assistant Director, Molecular Biosciences Ph.D. Program

RICHARD S. GRIPPO, 1995  
B.S., Fairleigh Dickinson University  
M.S., Fairleigh Dickinson University  
Ph.D., Pennsylvania State University  
Associate Professor of Environmental Biology

JOANNA M. GRYMES, 1989  
B.S., Virginia Polytechnic Institute and State University  
M.S., University of Delaware  
Ph.D., Virginia Polytechnic Institute and State University  
Associate Professor of Early Childhood Education

GAIURI-SHANKAR GUHA, 2001  
M.S., Birla Institute of Technology & Science  
Ph.D., Pennsylvania State University  
Assistant Professor of Economics

DAVINA GUSKOV, 2003  
B.A., University College Cork—Ireland  
M.S., Arkansas State University  
Ph.D., University of Pennsylvania  
Temporary Instructor in Journalism

CATHY PATTON HALL, 1991  
B.S., Arkansas State University—Co-Director, ASN Program  
M.S., University of Cincinnati  
Ph.D., University of Cincinnati  
Assistant Professor of Mathematics

JAMES MICHAEL HALL, 2002  
B.A., University of Mississippi  
M.S., University of Mississippi  
Ph.D., University of Mississippi  
Assistant Professor of Mathematics

DOMINIQUE HALLETT, 2004  
B.A., Stephen F. Austin State University  
M.F.A., Texas Christian University  
Ph.D., University of California  
Reference Librarian

GLORIA GIBSON, 2004  
B.A., Southern Illinois University—Edwardsville  
M.A., Southern Illinois University—Edwardsville  
Ph.D., Indiana University - Bloomington  
Professor of English and Philosophy  
Dean, College of Humanities and Social Sciences
MARTIN J. HUSS, 1993
B.A., Benedictine College
M.A., University of Kansas
Ph.D., University of Kansas
Associate Professor of Botany

ROBERT N. HUTCHISON, 2003
B.A., Quachita Baptist University
ASU - Beebe Degree Center
M.A., Southern Baptist Theological Seminary
Coordinator for ASU Degree Center at ASU - Mountain Home

DEBRAINGRAM, 2000
B.S., University of Minnesota
ASU - Beebe Degree Center
M.S., Arkansas State University
Ph.D., University of Memphis
Associate Professor of Mathematics
Assistant Chair, Department of Mathematics and Statistics

JULIE JUER ISAACSON, 1987
B.S.N., University of Tennessee
M.S.N., Vanderbilt University
Associate Professor of Nursing

MARY E. JACKSON-PITTS, 1988
B.S., Arkansas State University
M.S., Arkansas State University
Ph.D., University of Southern Mississippi
Professor of Radio-Television

J. BRUCE JOHNSON, 1994
B.S., Brigham Young University
ASU - Beebe Degree Center
M.A., University of Illinois—Columbia
Assistant Chair, Department of Chemistry & Physics

CRAIG H. JONES, 1977
B.A., Rutgers University
M.A., University of Kansas
Ph.D., University of Mississippi
Professor of Psychology and Counseling
<table>
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<tr>
<th>Name</th>
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| JO JONES, 2005              | Temporary Instructor in Teacher Education - ASU Beebe | B.A., Harding University  
|                             |                                | B.S., University of Arkansas School of Health Related Professions  
|                             |                                | M.Ed., University of New Mexico  |
| K. RUSSELL JONES, 1989      | Associate Professor of Computer & Information Technology | B.A., Arkansas State University  
|                             |                                | M.S.I.S., Arkansas State University  
|                             |                                | Ph.D., University of Texas—Arlington  |
| CHERISSIE JONES-BRANCH, 2003| Assistant Professor of History | B.A., College of Charleston  
|                             |                                | M.A., College of Charleston  
|                             |                                | Ph.D., Ohio State University  |
| RICHARDE JORGENSEN, 1975    | Professor of Music             | B.S.M.E., University of Illinois—Urbana  
|                             |                                | M.M., Wichita State University  |
| M. ELLIS JULIEN, 1968       | Professor of Music             | B.A., Hope College  
|                             |                                | M.M., University of Illinois  
|                             |                                | D.M.A., Memphis State University  |
| AMY KALLAM, 2001            | Assistant Professor of Psychology and Counseling | B.A., Hendrix College  
|                             |                                | M.S., University of Central Arkansas  
|                             |                                | Ph.D., University of Georgia  |
| JOHN H. KEECH, 1968         | Professor of Art               | B.F.A., Washington University  
|                             |                                | M.A., University of Iowa  
|                             |                                | M.F.A., University of Iowa  |
| BECKY KEITH, 2001           | Assistant Professor of Physical Therapy | B.S., University of Central Arkansas  |
| DONALD W. KENNEDY, 1993     | Professor of Animal Science    | B.S., Sam Houston State University  
|                             |                                | M.Ed., Sam Houston State University  
|                             |                                | Ph.D., Louisiana State University  |
| JAMES KENNION, 2001         | Assistant Professor of Science Education | B.S., Arkansas State University  
|                             |                                | B.S.E., Arkansas State University  
|                             |                                | M.S.E., Arkansas State University  
|                             |                                | Ed.D., University of Memphis  |
| DAVID KERN, 2001            | Assistant Professor of Finance | B.S., University of North Alabama  
|                             |                                | M.B.A., University of North Alabama  
|                             |                                | M.S.B.A., Mississippi State University  
|                             |                                | Ph.D., Mississippi State University  |
| RANDALL G. KESSELRING, 1984 | Professor of Economics         | B.B.A., University of Oklahoma  
|                             |                                | M.A., University of Oklahoma  
|                             |                                | Ph.D., University of Oklahoma  |
| JOSEPH KEY, 2002            | Assistant Professor of History | B.A., Lyon College  
|                             |                                | M.A., Louisville Presbyterian Theological Seminary  
|                             |                                | M.A., West Texas A & M  
|                             |                                | Ph.D., University of Arkansas—Fayetteville  |
| DIXIE KEYES, 2006           | Assistant Professor of Middle-Level Education | B.S.E., University of Central Arkansas  
|                             |                                | M.Ed., University of Texas, Pan-American  
|                             |                                | Ph.D., University of Houston  |
| IRINA KRHAMTSOVA, 2002      | Assistant Professor of Psychology | B.A., Moscow State University  
|                             |                                | Ed.D., Kansas State University  |
| HYUN-DUCK KIM, 2005         | Assistant Professor of Physical Education | Bachelor, Kyung Hee University, Suwon, South Korea  
|                             |                                | Masters, University of New Mexico  |
| JENNIFER KISNER, 2000       | Temporary Instructor in English | B.A., Arkansas State University  
|                             |                                | M.A., Arkansas State University  |
| BARBARA NUCKLES, 1988       | Instructor in Developmental Studies | B.S.E., Arkansas State University  
|                             |                                | M.A., Arkansas State University  |
| HIROMI KUBO, 2004           | Reference Librarian            | B.A., Okayama University—Japan  
|                             |                                | M.A., University of Missouri—Columbia  |
| MAUNG KIYAW, 2003           | Temporary Instructor in Chemistry | B.Sc., University of Rangoon  
|                             |                                | Ph.D., London University  |
| MARY JANE LACK, 1998        | Assistant Professor of Communication Disorders | B.S.E., Arkansas State University  
|                             |                                | M.S.P., Arkansas State University  |
| JULIE LAMB-MILLIGAN, 2000   | Associate Professor of Gifted, Talented and Creative Education | B.S., University of Arkansas  
|                             |                                | M.S.E., Arkansas State University  
|                             |                                | Ph.D., Kent State University  |
| TERILANDRUM, 2006           | Temporary Assistant Professor of Nursing-Beebe | B.S.N., University of Arkansas for Medical Sciences  
|                             |                                | M.S.N., University of Arkansas for Medical Sciences  |
| ROBERT LAWRENCE LAMM, 1991  | Associate Professor of English | B.A., University of Oklahoma  
|                             |                                | M.A., University of Oklahoma  
|                             |                                | Ph.D., University of Oklahoma  |
| JULIA LANSFORD, 1964        | Associate Professor of Music   | B.M.E., Arkansas State University  
|                             |                                | M.Mus., North Texas State University  |
| GARY A. LATANICH, 1981      | Professor of Economics         | B.B.A., Ohio University  
|                             |                                | M.A., University of Nebraska—Lincoln  
|                             |                                | Ph.D., University of Nebraska—Lincoln  |
| DAVID LaVETTER, 2004        | Assistant Professor of Physical Education/ Sports Management | B.S., University of Utah  
|                             |                                | M.Ed., University of Nevada  
|                             |                                | Ph.D., University of New Mexico  |
| PAIGE HIGGINS LAWSON, 2004  | Temporary Instructor in Physical Education | B.S., Arkansas State University  
<p>|                             |                                | M.S., Arkansas State University  |</p>
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<tr>
<th>Name</th>
<th>Position</th>
<th>Education</th>
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<tbody>
<tr>
<td>ZELDA McMURTRY, 2002</td>
<td>Associate Professor of Education</td>
<td>B.A., Harding University&lt;br&gt;M.Ed., Harding University&lt;br&gt;M.A., Arkansas State University</td>
</tr>
<tr>
<td>ALAN McVEY, 2006</td>
<td>Executive Director, Delta Center for Economic Development</td>
<td>B.A., University of Arkansas—Little Rock</td>
</tr>
<tr>
<td>FABRICOMEDINA-BOLIVAR, 2005</td>
<td>Assistant Professor of Plant Metabolic Engineering</td>
<td>B.S., Universidad Peruana Cayetano Heredia, Lima, Peru&lt;br&gt;ABI/Department of Biological Sciences&lt;br&gt;Licentiate, Cayetano Heredia University and International Potato Center, Lima&lt;br&gt;Ph.D., Pennsylvania State University</td>
</tr>
<tr>
<td>GREGORY MEEKS, 2003</td>
<td>Assistant Professor of Teacher Education</td>
<td>B.S.E., Quachita Baptist University&lt;br&gt;M.S.E., Henderson State University&lt;br&gt;Ph.D., University of North Texas</td>
</tr>
<tr>
<td>SUZANNE COLLIER MELESCUE, 1997</td>
<td>Associate Professor of Mathematics</td>
<td>B.S., University of Tennessee—Chattanooga&lt;br&gt;M.S., University of Tennessee—Knoxville&lt;br&gt;Ph.D., University of Tennessee—Knoxville</td>
</tr>
<tr>
<td>JOHN MELLO, 2006</td>
<td>Assistant Professor of Marketing</td>
<td>B.A., Central Connecticut State University&lt;br&gt;M.P.A., University of New Haven&lt;br&gt;M.S.M., Wilmington College</td>
</tr>
<tr>
<td>DONMERRELL, 2001</td>
<td>Temporary Assistant Professor of Philosophy</td>
<td>B.A., Arkansas State University&lt;br&gt;M.A., University of Mississippi&lt;br&gt;Ph.D., University of Arkansas</td>
</tr>
<tr>
<td>JIE MIAO, 1998</td>
<td>Associate Professor of Mathematics</td>
<td>B.S., Hangzhou University-PR China&lt;br&gt;M.S., Hangzhou University-PR China&lt;br&gt;Ph.D., Michigan State University</td>
</tr>
<tr>
<td>CYNTHIA MILLER, 2005</td>
<td>Director, NEA Delta Math/Science Institute</td>
<td>B.S., University of Tennessee - Chattanooga&lt;br&gt;M.Ed., West Georgia College&lt;br&gt;Ed.S., Georgia State University&lt;br&gt;Ph.D., Georgia State University</td>
</tr>
<tr>
<td>ELISSA MILLER, 1994</td>
<td>Assistant Professor of Nursing</td>
<td>B.A., Harding University&lt;br&gt;M.N.Sc., University of Arkansas for Medical Sciences&lt;br&gt;M.A., Memphis State University&lt;br&gt;Ph.D., Memphis State University</td>
</tr>
<tr>
<td>FIONA MILLER, 2006</td>
<td>Assistant Professor of Political Science</td>
<td>B.S., Carleton University&lt;br&gt;B.A., Carleton University&lt;br&gt;M.A., Carleton UniversityY&lt;br&gt;Ph.D., University of Toronto</td>
</tr>
<tr>
<td>RENEE MILLER, 2001</td>
<td>Assistant Professor of Nursing</td>
<td>B.S.N., Arkansas State University&lt;br&gt;M.S.N., Arkansas State University</td>
</tr>
<tr>
<td>ROBERT DALE MILLER, 1997</td>
<td>Associate Professor of Music</td>
<td>B.M.E., East Texas State University&lt;br&gt;M.E.E., East Texas State University&lt;br&gt;Ph.D., Texas Tech University—Lubbock</td>
</tr>
<tr>
<td>Name</td>
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<td>University 1</td>
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</tr>
<tr>
<td>Sshebby Neeley- Goodwin, 2005</td>
<td>Assistant Professor of Social Work</td>
<td>B.A., Winthrop University</td>
</tr>
<tr>
<td>Joseph Neev, 2006</td>
<td>Associate Professor of Physics</td>
<td>B.S., Colorado School of Mines</td>
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<td>Cindy Nichols, 2005</td>
<td>Temporary Instructor in Special Education</td>
<td>B.S., Southeast Missouri State University</td>
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<td>Joseph Nichols, 2001</td>
<td>Associate Professor of Educational Leadership</td>
<td>B.S.E., University of Mississippi</td>
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<td>Elizabeth Nix, 2004</td>
<td>Assistant Professor of Nursing</td>
<td>B.S.N., Arkansas State University</td>
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<td>Sarath Nonis, 1991</td>
<td>Professor of Marketing</td>
<td>B.A., University of North Texas</td>
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<td>Lisa Ochs, 1999</td>
<td>Associate Professor of Counseling</td>
<td>B.A., Saint Mary of the Plains College</td>
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<td>John O’Connell, 1998</td>
<td>Associate Professor of Theatre</td>
<td>B.A., Moorhead State University</td>
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<td>Carol A. O’Connor, 2002</td>
<td>Professor of History</td>
<td>B.A., Manhattanville College</td>
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<tr>
<td>Thomas M. O’Connor, Jr., 1978</td>
<td>Professor of Music</td>
<td>B.M.E., Arkansas State University</td>
</tr>
<tr>
<td>George Ogendi, 2006</td>
<td>Temporary Assistant Professor of Environmental Geology</td>
<td>B.S., Egerton University, Kenya</td>
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<td>John Owen, 2000</td>
<td>Assistant Professor of Music</td>
<td>B.A., Arkansas Tech University</td>
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<td>Laura Owens, 1994</td>
<td>Assistant Professor of Nursing</td>
<td>B.S., University of Tennessee—Memphis</td>
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</table>
LINA OWENS, 1999  
Associate Professor of Teacher Education  
B.A., Harding University  
M.Ed., University of Mississippi  
Ph.D., University of Mississippi

RUTH OWENS, 1997  
Assistant Professor of Spanish  
—Acting Associate Dean, College of Humanities and Social Sciences  
B.A., Longwood College  
M.A., West Virginia University  
Ed.D., West Virginia University

ARIANNE PAIT, 2002  
Assistant Professor of Communication Disorders  
B.S., Arkansas State University  
M.A., University of North Carolina at Greensboro

MICHAEL PANIGOT, 1997  
Associate Professor of Chemistry  
B.S., University of Nebraska at Omaha  
M.S., Indiana University  
Ph.D., Case Western Reserve University

BRENTA JOYCE PARHAM, 2005  
Assistant Professor of Nursing, MSCC—West Memphis  
B.S.N., Florida A&M University  
M.E., University of Memphis  
M.S.N., University of Tennessee Center for the Health Sciences

THOMAS J. PARSONS, 1984  
Professor of Civil Engineering  
—Director of Civil Engineering Program  
B.E., Youngstown State University  
M.S., Youngstown State University  
Ph.D., West Virginia University

MARIE PATTON, 1998  
Temporary Instructor in English  
B.S.E., Arkansas State University  
M.A., Arkansas State University

WILLIAM H. PAULSEN, 1990  
Professor of Mathematics  
B.A., Washington University  
M.A., Washington University  
Ph.D., Washington University

ROBIN L. PAYNE, 1986  
Bibliographic Instruction Librarian  
B.A., Brigham Young University  
M.S.L., Brigham Young University

WILLIAMC. PAYNE, 1988  
Assistant Professor of Clinical Lab Sciences  
B.S., Ohio University  
B.S., Loma Linda University  
M.S., Loma Linda University

AMY PEARCE, 2001  
Assistant Professor of Psychology  
B.S., Arkansas State University  
Ph.D., Australian National University

PATRICK PECK, 2001  
Associate Professor of Counseling  
B.A., Eastern Illinois University  
M.C.C.C., Idaho State University  
Ed.D., Idaho State University

GAYLE PENDERGRASS, 1995  
Associate Professor of Art Education  
B.S.E., Arkansas State University  
M.A., Arkansas State University  
M.F.A., Memphis State University

DENNIS PERKEY, 2003  
Temporary Instructor in Physical Education/ Athletic Training  
B.S., Arkansas State University  
M.S., Southern Illinois University at Carbondale

DEBORAH PERSELL, 2001  
Associate Professor of Nursing  
B.S.N., University of Kansas—Kansas City  
M.S.N., University of Missouri—Kansas City

JUDITH PFRIEMER, 1992  
Assistant Professor of Nursing  
B.S., Alfred University  
M.S.N., Arkansas State University

MELODIE PHILHOURS, 1985  
Assistant Professor of Marketing  
B.S., Arkansas State University  
M.B.A., Arkansas State University  
Ed.D., Arkansas State University

DAVID PHILLIPS, 2005  
Temporary Instructor in Sociology  
B.S., New York State University  
M.A., Arkansas State University

GREG PHILLIPS, 2002  
Professor of Agriculture  
B.A., University of Kentucky  
Ph.D., University of Kentucky  
—Dean, College of Agriculture, College of Engineering, and College of Sciences and Mathematics  
—Director, Agricultural Research Program

LATONYA PIERCE, 2005  
Assistant Professor of Psychology and Counseling  
B.A., Loyola University —New Orleans  
M.S., Loyola University —New Orleans  
Ph.D., University of New Orleans

TISHA PIERCE-FRENCH, 2001  
Temporary Assistant Professor of Communication Disorders  
B.S.E., Arkansas State University  
M.C.D., Arkansas State University

COLLIN PILLOW, 1998  
Instructor in Radio-Television  
B.S., Arkansas State University

KIM PITTCOCK, 1998  
Associate Professor of Horticulture  
B.S., Texas Tech University  
M.S., University of Tennessee  
Ph.D., Texas Tech University  
—Associate Dean, College of Agriculture  
—Director, Agricultural Studies Program

JEFFREY R. PITTMAN, 1983  
Professor of Business Law  
B.S., Northern Illinois University  
J.D., University of Iowa  
M.B.A., University of Iowa

PHYLLIS E. POBST, 1991  
Associate Professor of History  
B.A., Gonzaga University  
M.T.S., Harvard Divinity School  
M.A., Centre for Mediaeval Studies, University of St. Michael's College  
Ph.D., Centre for Mediaeval Studies, University of Toronto

JOHN PRATTE, 2006  
Professor of Physics  
B.S., University of Texas—Austin  
Ph.D., University of Colorado—Boulder  
—Chair, Department of Chemistry and Physics

DIANNE PRINCE, 1989  
Professor of Early Childhood Education  
B.S.E., Arkansas State University  
M.S.E., Arkansas State University  
—Interim Chair, Department of Teacher Education  
—Interim Chair, Department of Teacher Education

TINA QUINN, 1997  
Associate Professor of Accounting  
B.S., Arkansas State University  
M.B.A., Arkansas State University  
Ph.D., University of Mississippi

PHYLLIS RAMBIN, 2005  
Professor of Art Education  
B.A., Lyon College  
M.Ed., Delta State University  
Ph.D., University of Georgia
SANDRA B. SEAY, 1967  
Assistant Professor of Music  
B.S.E., University of Missouri  
M.A., University of Missouri

RICHARD SEGALL, 1998  
Associate Professor of Computer & Information Technology  
B.S., Rensselaer Polytechnic Institute  
M.S./M.S., Rensselaer Polytechnic Institute  
Ph.D., University of Amherst

JOHN SEYDEL, 1995  
Professor of Computer & Information Technology  
—Chair, Department of Computer and Information Technology  
B.S., University of Colorado  
M.B.A., Boise State University  
Ph.D., Texas A&M University

LAQUITA SAUNDERS, 2001  
Temporary Instructor in History  
B.G.S., Arkansas State University  
M.A., Arkansas State University  
J.D., University of Arkansas at Little Rock

LAURA SCHAFER, 2005  
Assistant Professor of Nursing  
B.S.N., Memphis State University  
M.S.N., University of Tennessee  
—Site Coordinator, MSCC-West Memphis

ROBERT T. SCHICHLER, 1989  
Professor of English  
B.A., State University College at Geneseo  
M.A., State University College at Geneseo  
Ph.D., State University Center at Binghamton

ANGELA SCHMIDT, 2006  
Assistant Professor of Nursing  
B.S.N., Arkansas State University  
M.N.S., University of Arkansas Medical Sciences

JEANINE WEEKES SCHROER, 2005  
Assistant Professor of Philosophy  
B.S., University of Illinois at Chicago  
Ph.D., University of Illinois at Chicago

ROBERT SCHROER, 2004  
Assistant Professor of Philosophy  
B.A., University of Minnesota at Duluth  
Ph.D., University of Illinois at Chicago

CHRISTIANE SCHROETER, 2006  
Assistant Professor of Agricultural Economy  
B.S., Justus-Liebig University, Giessen, Germany  
M.S., Kansas State University  
M.S., Justus-Liebig University, Giessen, Germany  
Ph.D., Purdue University

CARMEN SCIALLA, 2000  
Assistant Professor of Music  
B.M., State University of New York at Fredonia  
M.M., University of Rochester  
D.M.A., Louisiana State University

JOHN J. SALVEST, 1989  
Professor of Art  
A.B., Duke University  
M.A., University of Iowa  
M.F.A., University of Iowa

RUBY SANDER, 2006  
Temporary Assistant Professor of Speech-Language Pathology  
B.S., Central Missouri State University  
M.S., Central Missouri State University

JOSEPH SARTORELLI, 1985  
Associate Professor of Philosophy  
B.A., University of Chicago  
B.Phil., Oxford University  
M.S., Wright State University  
Ph.D., Oxford University

LAURIE SAVARY, 2006  
Research Associate Professor of Protein Chemistry  
B.S., Iowa State University  
M.S., University of Tennessee  
Ph.D., Pennsylvania State University

JOHN W. SAWYER, 2001  
Temporary Instructor in Educational Leadership and Teacher Education  
B.M.E., Arkansas State University  
M.M.E., Arkansas State University

KELLY MARIE SCHEFFER, 2002  
Assistant Professor of Theatre  
B.F.A., Roosevelt University  
M.F.A., Western Illinois University

LISA SCHAFER, 2005  
Assistant Professor of Nursing  
B.S.N., Memphis State University  
M.S.N., University of Tennessee

ROBERT L. SCHICHLER, 1989  
Professor of English  
B.A., State University College at Geneseo  
M.A., State University College at Geneseo  
Ph.D., State University Center at Binghamton

ANGELA SCHMIDT, 2006  
Assistant Professor of Nursing  
B.S.N., Arkansas State University  
M.N.S., University of Arkansas Medical Sciences

JEANINE WEEKES SCHROER, 2005  
Assistant Professor of Philosophy  
B.S., University of Illinois at Chicago  
Ph.D., University of Illinois at Chicago

ROBERT SCHROER, 2004  
Assistant Professor of Philosophy  
B.A., University of Minnesota at Duluth  
Ph.D., University of Illinois at Chicago

CHRISTIANE SCHROETER, 2006  
Assistant Professor of Agricultural Economy  
B.S., Justus-Liebig University, Giessen, Germany  
M.S., Kansas State University  
M.S., Justus-Liebig University, Giessen, Germany  
Ph.D., Purdue University

CARMEN SCIALLA, 2000  
Assistant Professor of Music  
B.M., State University of New York at Fredonia  
M.M., University of Rochester  
D.M.A., Louisiana State University

JOHN J. SALVEST, 1989  
Professor of Art  
A.B., Duke University  
M.A., University of Iowa  
M.F.A., University of Iowa

RUBY SANDER, 2006  
Temporary Assistant Professor of Speech-Language Pathology  
B.S., Central Missouri State University  
M.S., Central Missouri State University

JOSEPH SARTORELLI, 1985  
Associate Professor of Philosophy  
B.A., University of Chicago  
B.Phil., Oxford University  
M.S., Wright State University  
Ph.D., Oxford University

LAURIE SAVARY, 2006  
Research Associate Professor of Protein Chemistry  
B.S., Iowa State University  
M.S., University of Tennessee  
Ph.D., Pennsylvania State University

JOHN W. SAWYER, 2001  
Temporary Instructor in Educational Leadership and Teacher Education  
B.M.E., Arkansas State University  
M.M.E., Arkansas State University

KELLY MARIE SCHEFFER, 2002  
Assistant Professor of Theatre  
B.F.A., Roosevelt University  
M.F.A., Western Illinois University

LISA SCHAFER, 2005  
Assistant Professor of Nursing  
B.S.N., Memphis State University  
M.S.N., University of Tennessee

ROBERT L. SCHICHLER, 1989  
Professor of English  
B.A., State University College at Geneseo  
M.A., State University College at Geneseo  
Ph.D., State University Center at Binghamton

ANGELA SCHMIDT, 2006  
Assistant Professor of Nursing  
B.S.N., Arkansas State University  
M.N.S., University of Arkansas Medical Sciences

JEANINE WEEKES SCHROER, 2005  
Assistant Professor of Philosophy  
B.S., University of Illinois at Chicago  
Ph.D., University of Illinois at Chicago

ROBERT SCHROER, 2004  
Assistant Professor of Philosophy  
B.A., University of Minnesota at Duluth  
Ph.D., University of Illinois at Chicago

CHRISTIANE SCHROETER, 2006  
Assistant Professor of Agricultural Economy  
B.S., Justus-Liebig University, Giessen, Germany  
M.S., Kansas State University  
M.S., Justus-Liebig University, Giessen, Germany  
Ph.D., Purdue University

CARMEN SCIALLA, 2000  
Assistant Professor of Music  
B.M., State University of New York at Fredonia  
M.M., University of Rochester  
D.M.A., Louisiana State University
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<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Education/Institution</th>
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<tr>
<td><strong>BRENDA SMITH, 2003</strong></td>
<td>Temporary Associate Professor of Nursing</td>
<td>B.S.N., University of Alabama</td>
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<td>M.N., Emory University</td>
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<td>Ed.D., University of Memphis</td>
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<td><strong>DARREN SMITH, 2001</strong></td>
<td>Associate Professor of Reading</td>
<td>B.A., Loyola University—New Orleans</td>
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<td>M.S., University of New Orleans</td>
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<td>Ph.D., Indiana University—Bloomington</td>
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<tr>
<td><strong>GIDGET R. SMITH, 1994</strong></td>
<td>Temporary Instructor in Mathematics</td>
<td>B.S., Arkansas State University</td>
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<td></td>
<td>M.S., Arkansas State University</td>
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<td><strong>ROBERT PAUL SMITH, 1969</strong></td>
<td>Associate Professor of Mathematics</td>
<td>B.S., Loras College</td>
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<td>M.A., University of Arizona</td>
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<td>Ph.D., University of Arizona</td>
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<td><strong>SUSAN SMITH, 1994</strong></td>
<td>Assistant Professor of Nursing</td>
<td>B.S., University of Central Arkansas</td>
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<td>M.S.N., University of Central Arkansas</td>
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<tr>
<td><strong>VICTORIA SPANIOL, 1989</strong></td>
<td>Assistant Professor of English</td>
<td>B.A., West Virginia University</td>
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<td>M.A., University of Southwestern Louisiana</td>
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<td>Ph.D., University of Southwestern Louisiana</td>
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<tr>
<td><strong>JEANETTE SPENCER, 1997</strong></td>
<td>Temporary Instructor in Computer Science</td>
<td>B.S.E., Arkansas State University</td>
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<td></td>
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<td>M.S.E., Arkansas State University</td>
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<td><strong>MICHAEL P. SPIKES, 1987</strong></td>
<td>Professor of English</td>
<td>B.A., Mississippi State University</td>
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<td>M.A., Indiana University</td>
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<td>Ph.D., Indiana University</td>
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<tr>
<td><strong>MALATHI SRIVATSAKAN, 2003</strong></td>
<td>Assistant Professor of Molecular Biology</td>
<td>B.S., Madras University—India</td>
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<td></td>
<td></td>
<td>M.S., Jawaharlal Institute—India</td>
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<td></td>
<td></td>
<td>Ph.D., Institute of Medical Sciences &amp; Research-India</td>
</tr>
<tr>
<td><strong>ANNETTE S. STACY, 1982</strong></td>
<td>Associate Professor of Nursing</td>
<td>B.S.N., Vanderbilt University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S.N., University of Virginia</td>
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<tr>
<td><strong>NORMAN EDWARD STAFFORD, 1977</strong></td>
<td>Professor of English</td>
<td>B.A., DePaul University of Chicago</td>
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<tr>
<td></td>
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<td>M.A., Chicago State University</td>
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<td>Ph.D., University of Chicago</td>
</tr>
<tr>
<td><strong>CURTIS E. STEELE, 1978</strong></td>
<td>Professor of Art</td>
<td>B.F.A., California College of Arts and Crafts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A., California State University—Chico</td>
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<td>M.F.A., Memphis State University</td>
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<tr>
<td><strong>TERRY STEPKA, 2001</strong></td>
<td>Assistant Professor of Teacher Education</td>
<td>B.S.E., Arkansas State University</td>
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<tr>
<td></td>
<td></td>
<td>Ed.D., University of Memphis</td>
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<tr>
<td><strong>JASON STEWART, 1998</strong></td>
<td>Temporary Instructor in Agricultural Engineering</td>
<td>B.S., Arkansas State University</td>
</tr>
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<td></td>
<td>M.S., Texas A&amp;M University</td>
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<tr>
<td><strong>PATRICK STEWART, 1998</strong></td>
<td>Associate Professor of Public Administration</td>
<td>B.A., University of Central Florida—Orlando</td>
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<td>M.A., University of Central Florida—Orlando</td>
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<tr>
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<td>Ph.D., Northern Illinois University</td>
</tr>
<tr>
<td><strong>PAULA STEWART-LIMA, 2002</strong></td>
<td>Assistant Professor of Teacher Education</td>
<td>B.S.E., University of Missouri—Columbia</td>
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<tr>
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<td>Ph.D., University of Arkansas-Fayetteville</td>
</tr>
<tr>
<td><strong>JIM L. STILLWELL, 1994</strong></td>
<td>Professor of Physical Education</td>
<td>B.S., Western Illinois University</td>
</tr>
<tr>
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<td>M.S., Western Illinois University</td>
</tr>
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<td></td>
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<td>P.E.D., Indiana University</td>
</tr>
<tr>
<td><strong>HERMAN W. STRICKLAND, 1972</strong></td>
<td>Associate Professor of Teacher Education</td>
<td>B.S.E., Paul Quinn College</td>
</tr>
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<td>M.S.E., Arkansas State University</td>
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<td>Ed.D., Ball State University</td>
</tr>
<tr>
<td><strong>VICKI STRIPLING, 2005</strong></td>
<td>Instructor in Developmental Reading</td>
<td>B.S.E., Arkansas State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S.E., Arkansas State University</td>
</tr>
<tr>
<td><strong>HUBERT B. STROUD, 1968</strong></td>
<td>Professor of Geography</td>
<td>B.S., Austin Peay State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A., Memphis State University</td>
</tr>
<tr>
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<td>Ph.D., University of Tennessee</td>
</tr>
<tr>
<td><strong>NAREATHA STUDDARD, 2004</strong></td>
<td>Assistant Professor of Management</td>
<td>B.S., Alabama A&amp;M University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A., Seton Hall University</td>
</tr>
<tr>
<td><strong>HUNG CHISU, 2003</strong></td>
<td>Assistant Professor of Computer Science</td>
<td>B.S., National Cheng-Kung University</td>
</tr>
<tr>
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<td>M.S., Oklahoma State University</td>
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<td>Ph.D., Oklahoma State University</td>
</tr>
<tr>
<td><strong>ANDREW T. SUSTICH, 1991</strong></td>
<td>Professor of Physics</td>
<td>B.S., University of Illinois—Urbana-Champaign</td>
</tr>
<tr>
<td></td>
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<td>M.S., University of Illinois—Urbana-Champaign</td>
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<td>Ph.D., University of Illinois—Urbana-Champaign</td>
</tr>
<tr>
<td><strong>AHMAD SYAMIL, 2000</strong></td>
<td>Assistant Professor of Computer &amp; Information Technology</td>
<td>B.S., Bandung Institute of Technology—Indonesia</td>
</tr>
<tr>
<td></td>
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<td>M.B.A., University of Houston</td>
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<tr>
<td></td>
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<td>Ph.D., University of Toledo</td>
</tr>
<tr>
<td><strong>ALEXANDER SYDORENKO, 1972</strong></td>
<td>Professor of History</td>
<td>B.S., University of Illinois—Chicago</td>
</tr>
<tr>
<td></td>
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<td>M.A., University of Illinois—Chicago</td>
</tr>
<tr>
<td></td>
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<td>Ph.D., University of Illinois—Urbana</td>
</tr>
<tr>
<td><strong>HENRY TALLEY, 2003</strong></td>
<td>Assistant Professor and Nurse Anesthesia</td>
<td>B.S., Ottawa University</td>
</tr>
<tr>
<td></td>
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<td>M.S., Mount Marty College</td>
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<td>M.S.N., University of Tennessee—Memphis</td>
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<tr>
<td></td>
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<td>Ph.D., University of Tennessee—Memphis</td>
</tr>
<tr>
<td><strong>RICHARD W. TAYLOR, 1984</strong></td>
<td>Professor of Finance</td>
<td>B.S., Arkansas State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.B.A., University of Arkansas—Fayetteville</td>
</tr>
<tr>
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<td>Ph.D., Louisiana Tech University</td>
</tr>
</tbody>
</table>
TINA TEAGUE, 1988
B.S., University of Arkansas—Fayetteville
M.S., University of Arkansas—Fayetteville
Ph.D., Texas A&M University
Professor of Plant Science/Entomology

DEREK TEANEY, 2006
B.S., Yale University
Ph.D., State University of New York at Stonybrook
Assistant Professor of Physics

DALE THOMAS, 2003
B.A., Arkansas State University
M.A., Arkansas State University
Ph.D., University of South Carolina
Temporary Assistant Professor of Political Science

MARCELLE THOMPSON-HAYS, 2004
B.A., University of Arkansas at Little Rock
M.A., University of Arkansas at Little Rock
Ph.D., The University of Memphis
Assistant Professor of Communication Studies

BONNIE L. THRASHER, 1993
B.S., Mississippi University for Women
M.A., University of Alabama
Instructor in Journalism

PATRICIA ANN TONEY-McLIN, 1982
B.S.E., Jackson State University
M.S., Jackson State University
M.P.A., Jackson State University
Instructor in Accounting

HENRY TORRES, 2002
B.S., Texas Tech University
M.B.A., Henderson State University
Temporary Senior Lecturer in Information Systems

RONALD W. TOWERY, 1988
B.S., Mississippi State University
M.Ed., Mississippi State University
Ed.D., Mississippi State University
Professor of Teacher Education

JOY TRAUTH, 2003
B.S., University of Arkansas—Fayetteville
Temporary Instructor in Biological Sciences

TINA TEAGUE, 1988
B.S., University of Arkansas—Fayetteville
M.S., University of Arkansas—Fayetteville
Ph.D., Texas A&M University
Professor of Plant Science/Entomology

DEREK TEANEY, 2006
B.S., Yale University
Ph.D., State University of New York at Stonybrook
Assistant Professor of Physics

DALE THOMAS, 2003
B.A., Arkansas State University
M.A., Arkansas State University
Ph.D., University of South Carolina
Temporary Assistant Professor of Political Science

MARCELLE THOMPSON-HAYS, 2004
B.A., University of Arkansas at Little Rock
M.A., University of Arkansas at Little Rock
Ph.D., The University of Memphis
Assistant Professor of Communication Studies

BONNIE L. THRASHER, 1993
B.S., Mississippi University for Women
M.A., University of Alabama
Instructor in Journalism

PATRICIA ANN TONEY-McLIN, 1982
B.S.E., Jackson State University
M.S., Jackson State University
M.P.A., Jackson State University
Instructor in Accounting

HENRY TORRES, 2002
B.S., Texas Tech University
M.B.A., Henderson State University
Temporary Senior Lecturer in Information Systems

RONALD W. TOWERY, 1988
B.S., Mississippi State University
M.Ed., Mississippi State University
Ed.D., Mississippi State University
Professor of Teacher Education

JOY TRAUTH, 2003
B.S., University of Arkansas—Fayetteville
Temporary Instructor in Biological Sciences

STANLEY E. TRAUTH, 1984
B.S., University of Arkansas—Fayetteville
M.S., University of Arkansas—Fayetteville
Ph.D., Auburn University
Professor of Zoology

JANNIE HUFFMAN TRAUTWEIN, 1984
B.S., Henderson State University
M.S., Clemson University
—Director, Rural Institute for Math/Science Education

MARCUS TRIBBETT, 2005
B.A., Harvard University
M.A., Northern Arizona University
Ph.D., Washington State University
Instructor / Advisor in First Year Studies

STACY TROXEL, 2002
B.S.N., University of Texas
M.S.N., Arkansas State University
Assistant Professor of Nursing

BARRI BARBARA TURNAGE, 2006
B.S., University of Nebraska at Omaha
M.S.W., University of Nebraska at Omaha School of Social Work
Ph.D., Tulane University School of Social Work
Associate Professor of Social Work

KEVIN UNTER, 2006
B.A., Colorado State University
M.A., Colorado State University
Ph.D., University of New Orleans
Temporary Instructor in Political Science

CHRISTY VALENTINE, 2002
B.S., Arkansas State University
M.B.A., Arkansas State University
Instructor in Business Communication

JOHNNY VAN HORN, 2006
B.S., University of Arkansas—Fayetteville
M.B.A., Arkansas State University
Temporary Visiting Instructor in Accounting

STARIA VANDERPOOL, 1994
B.S., School of the Ozarks
M.S., Arkansas State University
Ph.D., University of Oklahoma
Assistant Professor of Botany

KIMBERLY VICKREY, 1999
B.F.A., Delta State University
M.F.A., University of Memphis
Associate Professor of Graphic Design

SERGIO RUMINOTT VILLALOBOS, 2003
Licenciatura, Universidad Arcis—Chile
Certificate, Universidad Arcis—Chile
M.A., University of Pittsburgh
Ph.D., University of Pittsburgh
Temporary Instructor in Spanish

DEBRA J. WALDEN, 1988
B.A., Southwestern at Memphis
M.N.Sc., University of Arkansas for Medical Sciences
Assistant Professor of Nursing

LEAH WALKER, 2001
B.S., Arkansas State University
M.S., Arkansas State University
Temporary Instructor in Engineering

PATRICIA WALLS, 2001
B.A., Arkansas State University
M.S.W., University of Arkansas—Little Rock
Ph.D., Jackson State University
Assistant Professor of Social Work

RICHARD PIERCE WANG, 1988
B.A., State University of New York—Fredonia
M.P.A., Wayne State University
Ph.D., Wayne State University
Associate Professor of Political Science

JIM WASHAM, 1991
B.S., University of Arkansas—Fayetteville
M.A., Indiana State University
Ph.D., University of Pittsburgh
Temporary Instructor in Agricultural Biotechnology

NATASHA WASHINGTON, 2002
B.A., Quachita Baptist University
M.A., Arkansas State University
S.C.C.T., Arkansas State University
Temporary Instructor in Political Science

MITCHELL WATROUS, JR, 2005
B.S., Roanoke College
M.A.Ed., Virginia Polytechnic Institute & State University
Assistant Professor of Clinical Lab Sciences

JULIE WATSON, 2003
B.S., Middle Tennessee State University
M.S., Arkansas State University
Temporary Instructor in Agriculture and Coordinator of Equine Center

PAMELA WEATHERS, 2006
B.S., Marquette University-Milwaukee
Ph.D., Michigan State University
Director of the Molecular Biosciences Graduate Program

KEVIN UNTER, 2006
B.A., Colorado State University
M.A., Colorado State University
Ph.D., University of New Orleans
Temporary Instructor in Political Science

KEVIN UNTER, 2006
B.A., Colorado State University
M.A., Colorado State University
Ph.D., University of New Orleans
Temporary Instructor in Political Science
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Education</th>
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</thead>
</table>
| CHARLOTTE YOUNG, 1994 | Professor of Nursing                | B.S.N., University of South Carolina  
M.S.N., Catholic University  
M.S., The Citadel  
Ph.D., Syracuse University |
| NANCY YOUNG, 1966   | Instructor in English               | B.S.E., Arkansas State University  
M.S.E., Arkansas State University |
| NATHAN YOUNG, 2006  | Assistant Professor of Civil Engineering | B.S.E., University of Iowa  
M.S., University of Iowa |
| LILY ZENG, 2004     | Assistant Professor in Radio-Television | B.A., Hunan Normal University—China  
M.A., Zhongshan University—China  
Ph.D., Southern Illinois University |
| BIN ZHANG, 2000     | Associate Professor of Physics      | B.S., Peking University  
M.S., Columbia University  
M.Ph., Columbia University  
Ph.D., Columbia University |
| QINGYU ZHANG, 2001  | Associate Professor of Computer & Information Technology | B.E., Tsinghua University  
B.A., Tsinghua University  
M.E., Tsinghua University  
Ph.D., University of Toledo |
| HONG ZHOU, 2006     | Temporary Visiting Assistant Professor of Statistics | B.S., Hua Zhong University of Science and Technology, China  
M.S., Hua Zhong University of Science and Technology, China  
M.S., University of Memphis  
Ph.D., University of Memphis |
| JACK ZIBLUK, 1993   | Associate Professor of Journalism   | B.S., Southern Connecticut State University  
M.S., Southern Connecticut State University  
Ph.D., Bowling Green State University |
<table>
<thead>
<tr>
<th>Name</th>
<th>Years</th>
<th>Emeritus Position</th>
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<tr>
<td>Robert F. Abbott</td>
<td>1967-1991</td>
<td>Emeritus Professor of Counselor Education and Psychology</td>
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<tr>
<td>Ed Alexander</td>
<td>1994-2006</td>
<td>Emeritus Professor of Music</td>
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<tr>
<td>T.R. Baker</td>
<td>1966-1992</td>
<td>Emeritus Associate Professor of Art Education</td>
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<tr>
<td>Larry Ball</td>
<td>1970-2001</td>
<td>Emeritus Professor of History</td>
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<tr>
<td>Eugene A. Ballard</td>
<td>1964-1990</td>
<td>Emeritus Assistant Professor of Printing</td>
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<tr>
<td>Rosalind Barber</td>
<td>1969-2000</td>
<td>Emeritus Instructor in Physical Education</td>
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<td>Edmund L. Barnett</td>
<td>1967-1993</td>
<td>Emeritus Professor of Counselor Education and Psychology</td>
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<td>Beverly Bartels</td>
<td>1970-1998</td>
<td>Emeritus Associate Professor of Nursing</td>
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<tr>
<td>Ovid Bayless</td>
<td>1974-1998</td>
<td>Emeritus Professor of Speech Communication and Chair of Speech Communication and Theatre Arts</td>
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<tr>
<td>John K. Beadles</td>
<td>1968-1993</td>
<td>Emeritus Professor of Biology and Dean, Graduate School</td>
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<tr>
<td>J. Edward Bennett</td>
<td>1963-1997</td>
<td>Emeritus Professor of Chemistry</td>
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<td>John B. Bennett</td>
<td>1968-1990</td>
<td>Emeritus Associate Professor of Mathematics</td>
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<td>Thomas D. Bishop</td>
<td>1970-2002</td>
<td>Emeritus Professor of Mathematics and Computer Science</td>
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<td>Loretta Bookout</td>
<td>1987-1997</td>
<td>Emeritus Instructor in Elementary Education</td>
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<td>Carolyn Bowers</td>
<td>1975-1997</td>
<td>Emeritus Associate Professor of Early Childhood Education</td>
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<td>Robert Bowman</td>
<td>1970-1999</td>
<td>Emeritus Professor of Mathematics</td>
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<td>Willis Brenner</td>
<td>1985-1998</td>
<td>Emeritus Documents Librarian</td>
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<td>Lew Brinkley</td>
<td>1969-2005</td>
<td>Emeritus Professor of Agricultural Economics</td>
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<td>David Burgess</td>
<td>1973-1998</td>
<td>Emeritus Associate Professor of Health Education</td>
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<td>Julia Burkart</td>
<td>1984-1996</td>
<td>Emeritus Associate Professor of Social Work</td>
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<td>James Burleson</td>
<td>1963-2000</td>
<td>Emeritus Professor of English</td>
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<tr>
<td>Alta Burns</td>
<td>1961-1996</td>
<td>Emeritus Assistant Professor of Physical Education</td>
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<td>John L. Burns</td>
<td>1969-1994</td>
<td>Emeritus Professor of Counselor Education</td>
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<td>Sandra Burns</td>
<td>1984-1996</td>
<td>Emeritus Assistant Professor of Business Law</td>
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<td>William Byrd</td>
<td>1955-1993</td>
<td>Emeritus Associate Professor of Biology</td>
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<td>Nellie T. Caffery</td>
<td>1968-1989</td>
<td>Emeritus Instructor in Nursing</td>
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<td>Martha Caldwell</td>
<td>1985-1993</td>
<td>Emeritus Assistant Professor of Nursing</td>
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<td>James Cathey</td>
<td>1986-2003</td>
<td>Emeritus Instructor in Radio-Television</td>
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<td>William G. Chance</td>
<td>1965-1990</td>
<td>Emeritus Professor of Education</td>
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<tr>
<td>Ruby Chittenden</td>
<td>1968-2000</td>
<td>Emeritus Director of the COB Advising Center</td>
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<tr>
<td>Larry Clowers</td>
<td>1969-2000</td>
<td>Emeritus Assistant Professor of Sociology</td>
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<td>Baron Conaway</td>
<td>1965-1995</td>
<td>Emeritus Professor of Reading</td>
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<tr>
<td>Harold L. Copenhaver</td>
<td>1970-1988</td>
<td>Emeritus Professor of Music and Dean of Fine Arts</td>
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<td>Roberta Daniels</td>
<td>1985-1999</td>
<td>Emeritus Professor of Gifted &amp; Talented Education</td>
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<td>Emma Sue Davidson</td>
<td>1972-1988</td>
<td>Emeritus Associate Professor of Education</td>
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<td>Don Denny</td>
<td>1958-1993</td>
<td>Emeritus Associate Dean of Students</td>
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<tr>
<td>Bonnie Deuter</td>
<td>1981-2003</td>
<td>Emeritus Assistant Professor of Nursing</td>
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<tr>
<td>James A. DeVrazier</td>
<td>1967-1991</td>
<td>Professor of Physical Education</td>
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<td>Beverly DeWater</td>
<td>1972-2001</td>
<td>Emeritus Assistant Professor of Psychology</td>
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<td>Jack Dison</td>
<td>1976-2000</td>
<td>Emeritus Associate Professor of Sociology</td>
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<td>Gerald Dickinson</td>
<td>1990-2005</td>
<td>Emeritus Professor of Education</td>
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<tr>
<td>Michael Dougan</td>
<td>1970-2006</td>
<td>Emeritus Professor of History</td>
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<td>Ervin Dunham</td>
<td>1967-1983</td>
<td>Emeritus Professor of Music</td>
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<tr>
<td>John Enger</td>
<td>1976-1999</td>
<td>Emeritus Professor of Education</td>
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<td>David England</td>
<td>1984-2006</td>
<td>Emeritus Associate Professor of Political Science</td>
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<tr>
<td>Daniel O. Felts</td>
<td>1967-1996</td>
<td>Emeritus Instructor in Mathematics</td>
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<tr>
<td>Robert L. Ferralasco</td>
<td>1952-1989</td>
<td>Emeritus Professor of Administrative Services and Chair of CIS and Administrative Services</td>
</tr>
<tr>
<td>Charles Ford</td>
<td>1969-2006</td>
<td>Emeritus Professor of Marketing</td>
</tr>
<tr>
<td>Wilbert Gaines</td>
<td>1972-2005</td>
<td>Emeritus Associate Professor of Physical Education</td>
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<tr>
<td>Raymond Gazik</td>
<td>1967-1998</td>
<td>Emeritus Professor of Mathematics</td>
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<tr>
<td>Roy Gehring</td>
<td>1968-2000</td>
<td>Emeritus Associate Professor of Environmental Botany</td>
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<tr>
<td>Martha Jane Gill</td>
<td>1970-2002</td>
<td>Emeritus Instructor in French</td>
</tr>
<tr>
<td>David Gillanders</td>
<td>1984-2006</td>
<td>Emeritus Professor of Electrical Engineering</td>
</tr>
<tr>
<td>Betty B. Goldsby</td>
<td>1969-1985</td>
<td>Emeritus Instructor in Elementary Education</td>
</tr>
<tr>
<td>Fay Beth Gray</td>
<td>1966-1969; 1972-2000</td>
<td>Emeritus Professor of Business Systems</td>
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<tr>
<td>Paul D. Gwinup</td>
<td>1965-1994</td>
<td>Emeritus Professor of Chemistry</td>
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<tr>
<td>Lyman Hagen</td>
<td>1969-1993</td>
<td>Emeritus Professor of English</td>
</tr>
<tr>
<td>James W. Hansard</td>
<td>1964-1996</td>
<td>Emeritus Director of Dean B. Ellis Library</td>
</tr>
<tr>
<td>George Harp</td>
<td>1967-1999</td>
<td>Emeritus Professor of Environmental Biology</td>
</tr>
<tr>
<td>Afak Haydar</td>
<td>1970-1997</td>
<td>Emeritus Professor of Political Science and Public Administration, Associate Dean of University College, and Executive Director of International Programs and Services</td>
</tr>
<tr>
<td>Jasper A. Hayles, Jr.</td>
<td>1967-1988</td>
<td>Emeritus Professor of Agricultural Education</td>
</tr>
<tr>
<td>George Y. Herndon</td>
<td>1968-1985</td>
<td>Emeritus Professor of Speech Pathology</td>
</tr>
<tr>
<td>Lawrence Hinck</td>
<td>1969-2001</td>
<td>Emeritus Professor of Microbiology</td>
</tr>
<tr>
<td>Jeffrey Hooper</td>
<td>1980-2004</td>
<td>Emeritus Professor of English</td>
</tr>
</tbody>
</table>
William Holmes, 1977-2000
Emeritus Professor of Music

Joe Horseley, 1983-2006
Emeritus Assistant Professor of Marketing
Emeritus Professor of Management

Dan Hoyt, 1976-2000
Emeritus Professor of Biology

Emeritus Assistant Professor of Theatre Arts

James A. Hutchison, 1965-1992
Emeritus Professor of Technology

Perry Isbell, 1983-2005
Emeritus Instructor in Physical Education

James W. Jackson, 1959-1986
Emeritus Professor of Zoology

Emeritus Associate Professor of Social Work

Charles Joiner, 1987-2006
Emeritus Associate Professor of Art Education

Chariot Jones, 1972-1999
Emeritus Professor of Special Education

Joseph Justen, 1981-2004
Emeritus Professor of Economics

John Kaminardes, 1968-2001
Emeritus Professor of Mechanical Engineering

Donald P. Kedzie, 1984-1996
Emeritus Professor of Animal Science

Howard Keene, 1964-1993
Emeritus Professor of History

John D. Kelly, 1975-1998
Emeritus Professor of Agriculture

Charles Kenner, 1966-1995
Emeritus Instructor in Audiology

Robert Kern, 1956-1993
Emeritus Associate Professor of Sociology

Jerry King, 1972-2000
Emeritus Professor of History

Donald E. Konold, 1954-1989
Emeritus Professor of History

C. Roger Lambert, 1966-1997
Emeritus Professor of Agriculture

Albin J. Langlois, 1964-1997
Emeritus Instructor in Physical Education

Norman Lavers, 1976-2000
Emeritus Associate Professor of Marketing

Emeritus Associate Professor of Accounting

Nadean Lee, 1968-1992
Emeritus Instructor in Developmental Programs

Gary Leibrock, 1976-2003
Emeritus Professor of Art

Evan Lindquist, 1963-2003
Emeritus Associate Professor of Marketing

Laddie Logan, 1979-2000
Emeritus Associate Professor of Accounting

Emeritus Associate Professor of Biology

Robbie Lyle, 1976-1992
Emeritus Instrutor in Developmental Studies

Julia M. Hite Manley, 1966-1976
Emeritus Professor of Development and Coordinator, Community College Teaching Program

Katherine Masters, 1977-2002
Emeritus Professor of Education

Mitchell M. Master, 1976-2002
Emeritus Professor of Management Information Systems

Steven L. Mayes, 1988-2002
Emeritus Professor of Art

Hal McCloud, 1966-1998
Emeritus Professor of Physics

Emeritus Professor of History and Management

Mary Lou McDaniel, 1967-1993
Emeritus Professor of English

Emeritus Professor of Real Estate

Emeritus Professor of Education

B.C. McGough, 1965-1987
Emeritus Professor of Physics

Emeritus Professor of Chemistry

Lawrence Mink, 1966-2000
Emeritus Professor of Chemistry

Emeritus Professor of Accounting

Logan Moon, 1968-1995
Emeritus Assistant Dean of Students

Owen Moseley, 1986-2001
Emeritus Professor of English

Emeritus Professor of Education

Evelyn D. Prescott, 1953-1983
Emeritus Professor of Agriculture

Emmett A. Presley, 1975-1993
Emeritus Associate Professor of Social Work

Paul Raines, 1972-1990
Emeritus Professor of Botany

Charles L. Rasberry, 1961-1987
Emeritus Professor of Botany

Edward L. Richards, 1963-1994
Emeritus Professor of Management Information Systems
<table>
<thead>
<tr>
<th>Name</th>
<th>Years</th>
<th>Title</th>
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<tr>
<td>Ellen Robinson</td>
<td>1965-1994</td>
<td>Emeritus Assistant Professor of English</td>
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<td>Luis Rodriguez</td>
<td>1980-1994</td>
<td>Emeritus Associate Professor of Business Law</td>
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<td>Jennifer Rogers</td>
<td>1986-2005</td>
<td>Emeritus Instructor in Radio-Television</td>
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<td>Keith Rogers</td>
<td>1986-2000</td>
<td>Emeritus Professor of Agricultural Economics and Dean of Agriculture</td>
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<td>Robert Rossa</td>
<td>1969-2004</td>
<td>Emeritus Professor of Mathematics &amp; Computer Science</td>
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<td>Timothy Ross</td>
<td>1965-2000</td>
<td>Emeritus Professor of History</td>
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<td>Amos B. Rougeau</td>
<td>1957-1992</td>
<td>Emeritus Professor of Agricultural Education</td>
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<td>Mary Beth Rutherford</td>
<td>1986-2005</td>
<td>Emeritus Associate Professor of Clinical Lab Sciences</td>
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<td>Vance Sales</td>
<td>1960-1991</td>
<td>Emeritus Professor of Education and Dean of Education</td>
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<td>Louis Semrau</td>
<td>1977-2001</td>
<td>Emeritus Professor of Special Education</td>
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<td>Pat Shackelford</td>
<td>1976-1997</td>
<td>Emeritus Associate Professor of Agricultural Engineering</td>
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<td>J.B. Sheofee</td>
<td>1964-1987</td>
<td>Emeritus Assistant Professor of Mathematics</td>
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<td>Dewey H. Sifford</td>
<td>1961-1997</td>
<td>Emeritus Professor of Chemistry</td>
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<td>Frances Smallwood</td>
<td>1964-1987</td>
<td>Emeritus Assistant Professor of Physical Education</td>
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<td>C. Calvin Smith</td>
<td>1970-2002</td>
<td>Emeritus Professor of History</td>
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<tr>
<td>Eugene Wilson Smith</td>
<td>1958-1992</td>
<td>Emeritus President of the University and Professor of Education</td>
</tr>
<tr>
<td>Lois M. Snider</td>
<td>1970-1990</td>
<td>Emeritus Instructor in Nursing</td>
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<tr>
<td>Jared Spears</td>
<td>1967-1999</td>
<td>Emeritus Professor of Music</td>
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<td>Helen S. Steger</td>
<td>1981-1992</td>
<td>Emeritus Assistant Professor of Counselor Education</td>
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<td>James H. Stevenson</td>
<td>1965-1980</td>
<td>Emeritus Professor of Biology and Dean of Science</td>
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<td>Elizabeth Stokes</td>
<td>1991-2005</td>
<td>Emeritus Professor of Nursing</td>
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<td>Shirl D. Strauser</td>
<td>1966-1994</td>
<td>Emeritus Professor of Accounting</td>
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<td>Peggy Stroud</td>
<td>1954-1984</td>
<td>Emeritus Associate Dean of Students</td>
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<td>Jack Sugg</td>
<td>1968-1999</td>
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<td>Ann Swaty</td>
<td>1975-2004</td>
<td>Emeritus Assistant Professor of Music</td>
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<td>Joseph P. Sweat</td>
<td>1964-1990</td>
<td>Emeritus Professor of Education and Chair of Educational Administration and Secondary Education</td>
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<td>Lois Ann Swisher</td>
<td>1969-1990</td>
<td>Emeritus Assistant Professor of Spanish</td>
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<td>Lonnie Talbert</td>
<td>1966-1998</td>
<td>Emeritus Professor of Economics</td>
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<td>Fuad Talib</td>
<td>1982-2001</td>
<td>Emeritus Associate Professor of Insurance</td>
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<td>Richard L. Tangeman</td>
<td>1970-2002</td>
<td>Emeritus Professor of Mathematics and Computer Science</td>
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<td>Patricia Teddie</td>
<td>1978-2006</td>
<td>Emeritus Professor of Sociology</td>
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<td>Aubrey W. Tennille</td>
<td>1962-1987</td>
<td>Emeritus Professor of Agronomy</td>
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<td>John B. Thomas</td>
<td>1984-1993</td>
<td>Emeritus Instructor in Journalism</td>
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<td>Dan Timmermann</td>
<td>1967-1993</td>
<td>Emeritus Professor of Botany</td>
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<tr>
<td>Stephen Tricarico</td>
<td>1968-2001</td>
<td>Emeritus Assistant Professor of Geography</td>
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<tr>
<td>Norman Trautwein</td>
<td>1967-2003</td>
<td>Emeritus Professor of Chemistry</td>
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<td>Stanley Vanagunas</td>
<td>1983-2000</td>
<td>Emeritus Professor of Public Administration</td>
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<td>Mildred Vance</td>
<td>1948-2002</td>
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<td>Carl Vaupel</td>
<td>1971-2002</td>
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<tr>
<td>David Vosburg</td>
<td>1966-1996</td>
<td>Emeritus Associate Professor of Geology</td>
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<td>Theron Waddle</td>
<td>1980-2002</td>
<td>Emeritus Associate Professor of Music</td>
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<td>W.F. Wei</td>
<td>1966-1985</td>
<td>Emeritus Associate Professor of Physics</td>
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<td>Patricia Lawson Welch</td>
<td>1978-2003</td>
<td>Emeritus Professor of Physical Education</td>
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<td>Jess R. White</td>
<td>1968-1989</td>
<td>Emeritus Professor of Nursing</td>
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<tr>
<td>Grace Whitis</td>
<td>1985-1999</td>
<td>Emeritus Professor of Accounting</td>
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<td>Robert Whitis</td>
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<td>Emeritus Assistant Professor of Accounting</td>
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<td>Dalton Whitt</td>
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<td>Emeritus Professor of Marketing and Chair of Management, Marketing &amp; Business Systems</td>
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<td>Emeida Williams</td>
<td>1978-2000</td>
<td>Emeritus Professor of Sociology</td>
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<tr>
<td>J. Larry Williams</td>
<td>1974-1997</td>
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<td>Stanley H. Williams</td>
<td>1972-1997</td>
<td>Emeritus Associate Professor of Finance</td>
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<tr>
<td>William Williams</td>
<td>1978-1996</td>
<td>Emeritus Assistant Professor of Administrative Services</td>
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<tr>
<td>Mary Lou Wood</td>
<td>1965-1995</td>
<td>Emeritus Professor of Education</td>
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<tr>
<td>Donald E. Wright</td>
<td>1970-1997</td>
<td>Emeritus Associate Professor of Management</td>
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<td>Charles Yauger</td>
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FINANCE AND ADMINISTRATION

Finance
Ed Kremers, Associate Vice Chancellor
Jo LunBeck, Director

Administrative Services
Donna McMillin, Director

Budget Planning and Development
Russ Hannah, Controller

Controller’s Office
Tim Dean, Director

Convocation Center
Al Stoverink, Assistant Vice Chancellor

Facilities Management
J. W. Mason, Associate Vice President

Human Resources
Mark Hoeting, Chief Information Officer

Information & Technology Services
Carol Bamhill, Director

Procurement Services
Renita Gray, Director

Sponsored Programs Accounting
Sandra Miley, Treasurer

PRESIDENT’S OFFICE

Executive Director for Governmental Relations
Robert Evans

Director of Athletics
Dean Lee

Executive Assistant
Pam Kail

RESEARCH AND ACADEMIC AFFAIRS

Academic Affairs
Rick McDaniel, Senior Associate Vice Chancellor for Academic Affairs
Lynita Cooksey, Associate Vice Chancellor for Academic Affairs

Administrative Services
Robin Hicks, Executive Assistant

Assessment Services
Barbara Doyle, Director

Delta Center for Economic Development
Alan McVey, Executive Director

Delta Heritage Initiatives
Ruth Hawkins, Director

Fowler Center
Jerry Biebesheimer, Director

Institutional Research & Planning
Kathryn Jones, Director

International Programs & Services
Sue Marlay, Director

Museum
Martl Lu Allen, Director

Regional Programs
Verlene Ringenberg, Dean

Registrar’s Office
Tracy Finch, Registrar

Wilson Advising Center
Jill Simons, Director

STUDENT AFFAIRS

Student Services
Lonnie Williams, Associate Vice Chancellor
Craig Johnson, Assistant Vice Chancellor

Student Services
Beth Silverthorn, Executive Assistant to the Vice Chancellor

Admissions
Tammy Fowler, Director

Career Services
Neal Vickers, Director

Counseling Center
Phillip Hestand, Director

Dining Services
John Nickel, Director

Disability Services
Jennifer Rice-Mason, Director

Enrollment Services
Gregory Thornburg, Dean

Financial Aid
Robin Kaloghiou, Interim Director

Parking Services
David McKinney, Director

Residence Life
Patrick Dixon, Director

Student Union
Randall Tate, Dean of Student Development

Student Health Center
Lisa Shefelton, Director

Testing
Rosemary Freer, Director

University Police
James Chapman, Director

UNIVERSITY ADVANCEMENT

Advancement Services
Philip Jackson, Foundation Controller

Alumni Relations
Beth Smith, Director

Publications and Creative Services
Ron Looney, Director

University Communications
Tom Moore, Director

University Relations
Mark Howe, Director
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