

undergraduate bulletin

2008-2009

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Arkansas State University

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 second floor (Room 2181) of the Reng Student Services Center. The telephone number is (870) 972-3964. The number for the Telecommunications Device for the Deaf (TDD) is (870) 972-3458.

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

Council for Academic Accreditation of the American Speech-Language-Hearing Association

**Council for Accreditation of Counseling and Related Educational Programs
(CACREP)**

Council on Rehabilitation Education (CORE)

Council on Accreditation of Nurse Anesthesia Educational Programs (CON)

222 South Prospect Avenue
Park Ridge, IL 60068-4037
Telephone: (847) 692-7050

Council on Social Work Education

Engineering Accreditation Commission of 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

8410 West Bryn Mawr, Suite 670
Chicago, IL 60631
Telephone: (773) 714-8880

National Association of Schools of Art and Design

11250 Roger Bacon Drive
Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

National Association of Schools of Music

11250 Roger Bacon Drive
Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

National Association of Schools of Public Affairs and Administration

National Council for Accreditation of Teacher Education (NCATE)

National League for Nursing Accrediting Commission

61 Broadway
New York, NY 10006
Telephone: (212) 363-5555, X153

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 College Educators in Radiologic Technology
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
European Teacher Education Network
International Student Exchange
National Association of Schools of Art and Design
National Association of Schools of Music
National Association of Schools of Public Affairs and Administration
National Collegiate Honors Council
National Council for Accreditation of Teacher Education
National 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

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 98 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 under-represented 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://see.oraui.org>, 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:

Glendell Jones
Sr. Associate Vice Chancellor for Academic Affairs and Research
ORAU Councilor for Arkansas State University

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

Visit the ORAU Home Page (<http://www.oraui.org>)

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ACADEMIC CALENDAR 2008-2009

Fall Semester 2008

Orientation for New faculty	August 18-19 (M-T)
Faculty Conference	August 20 (W)
College and Department Faculty Meetings	August 21-22 (R-F)
Last Day for Admissions	August 22 (F)
Residence Halls Open	9:00 a.m. August 23 (Sa)
First Year Convocation	2:00 p.m. August 24 (Su)
Regular Classes Begin	August 25 (M)
Last Day to Change from Credit to Audit	August 29 (F)
Last Day to Drop/Withdraw (without Financial Assessment)	August 31 (Su)
Late Registration	August 25-29 (M-F)
Saturday Classes Begin	August 30 (Sa)
Labor Day Holiday	September 1 (M)
Midsemester Exams	October 7-13 (T-M)
Last Day to Add a Session II Class	October 13 (M)
Session II Classes Begin	October 14 (T)
Midsemester Grades Due	12:00 noon October 15 (W)
Comprehensive Exam Results Reported to Graduate School	November 7 (F)
Thesis/Disseratation and Oral Defense Results Reported to Graduate School	November 14 (F)
Last Day to Drop a Course or Withdraw from the University	November 19 (W)
Fall Break and Thanksgiving Holiday	November 25-29 (M-Sa)
Last Day of Class	December 6 (Sa)
Final Examinations	December 8-13 (M-Sa)
Inclement Weather Final Exams Make-Up Day (if necessary)	December 15 (M)
Residence Halls Close (for all students not graduating)	12:00 noon December 13 (Sa)
Commencement (See Commencement Web Page)	2:00 p.m. December 13 (Sa)
All Grades Due	12:00 noon December 16 (T)

Spring Semester 2009

Residence Halls Open	9:00 a.m. January 9 (F)
Last Day for Admission	January 9 (F)
Regular Classes Begin	January 12 (M)
Late Registration	January 12-16 (M-F)
Last Day to Change from Credit to Audit	January 16 (F)
Saturday Classes Begin	January 17 (Sa)
Last Day to Drop/Withdraw (without Financial Assessment)	January 18 (Su)
Martin Luther King, Jr's Birthday Observed (No Classes)	January 19 (M)
Last Day to Drop Session I Courses	February 17 (T)
Midsemester Exams	February 24 - March 2 (T-M)
Last Day to Add a Session II Class	March 2 (M)
Session II Classes Begin	March 3 (T)
Midsemester Grades Due	12:00 noon March 4 (W)
Spring Break	March 23-28 (M-Sa)
Comprehensive Exam Results Reported to Graduate School	April 3 (F)
Thesis/Disseratation and Oral Defense Results Reported to Graduate School	April 10 (F)
Convocation of Scholars	April 13-17 (M-F)
Spring Faculty Association Meeting	April 14 (T)
Last Day to Drop a Course or Withdraw from the University	April 15 (W)
Last Day of Class	April 27 (M)
Study Day	April 28 (T)
Final Examinations	April 29 - May 5 (W-T)

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

ACADEMIC CALENDAR 2008-2009

Spring Semester 2008 (Cont.)

Residence Halls Close (for all students not graduating)	12:00 noon May 6 (W)
Graduating Senior Grades Due	10:00 p.m. May 7 (R)
All Grades Due	10:00 p.m. May 8 (F)
Commencement (See Commencement Web Page)	May 9 (Sa)

First Summer Term 2009

Memorial Day Holiday Observed	May 25 (M)
Last Day for Admission	May 29 (F)
Residence Halls Open	12:00 noon May 30 (Sa)
Registration	through June 1 (M)
Classes Begin	June 1 (M)
Last Day to Change from Credit to Audit	June 2 (T)
Last Day to Drop/Withdraw (without Financial Assessment)	June 2 (T)
Last Day to Drop a Course or Withdraw from the University	June 29 (M)
Last Day of Class	June 30 (T)
Final Examinations	July 1 (W)
All Grades Due	12:00 noon July 6 (M)

Second Summer Term 2009

Last Day for Admission	July 2 (R)
Independence Day Holiday	July 3 (F)
Registration	through July 6 (M)
Classes Begin	July 6 (M)
Last Day to Change from Credit to Audit	July 7 (T)
Last Day to Drop/Withdraw (without Financial Assessment)	July 7 (T)
Comprehensive Examination Results Reported to Graduate School	July 10 (F)
Thesis/Disseratation and Oral Defense Results Reported to Graduate School	July 17 (F)
Last Day to Drop a Course or Withdraw from the University	July 31 (F)
Last Day of Class	August 4 (T)
Final Examinations	August 5 (W)
Graduating Senior Grades Due	12:00 noon August 6 (R)
Residence Halls Close (for all students not graduating)	12:00 noon August 6 (R)
Commencement (See Commencement Web Page)	7:00 p.m. August 7 (F)
All Grades Due	10:00 a.m. August 7 (F)

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

DEADLINES 2008-2009

Fall Semester 2009

Last Day for Extended Registration.....	August 29 (F)
Last Day to Change from Credit to Audit (including Second Session)	August 29 (F)
Last Day to Drop or Withdraw without Financial Assessment	August 31 (Su)
Last Day for Names to be Added to December Graduation List	September 26 (F)
Last Day to Drop Session I (first 8 weeks) Classes.....	September 30 (Tu)
Last Day to Add a 2nd Session Course.....	October 13 (M)
Last Day to Drop Individual Course(s)	November 19 (W)
Last Day to Withdraw from the University	November 19 (W)

Spring Semester 2009

Last Day for Extended Registration.....	January 16 (F)
Last Day to Change from Credit to Audit (including Second Session)	January 16 (F)
Last Day to Drop or Withdraw without Financial Assessment	January 18 (Su)
Last Day for Names to be Added to May Graduation List	February 13 (F)
Last Day to Drop Session I (first 8 weeks) Classes.....	February 17 (Tu)
Last Day to Add a 2nd Session Course.....	March 2 (M)
Last Day to Drop Individual Course(s)	April 15 (W)
Last Day to Withdraw from the University	April 15 (W)

Summer Session 2009 - First Term

Last Day for Extended Registration.....	June 1 (M)
Last Day to Change from Credit to Audit	June 2 (T)
Last Day to Drop or Withdraw without Financial Assessment	June 2 (T)
Last Day for Names to be Added to August Graduation List	June 12 (F)
Last Day to Drop Individual Course(s)	June 29 (M)
Last Day to Withdraw from the University	June 29 (M)

Summer Session 2009 - Second Term

Last Day for Names to be Added to August Graduation List	June 12 (F)
Last Day for Extended Registration	July 6 (M)
Last Day to Change from Credit to Audit.....	July 6 (M)
Last Day to Drop or Withdraw without Financial Assessment	July 7 (Tu)
Last Day to Drop Individual 10-Week Course	July 27 (M)
Last Day to Drop Individual Course(s)	July 31 (F)
Last Day to Withdraw from the University	July 31 (F)

Organization of the University

BOARD OF TRUSTEES—2008-2009

	Term Expires
Howard Slinkard, Rogers	January, 2012
Mike Gibson, Osceola	January, 2009
Michael Medlock, Jonesboro.....	January, 2010
Florine Tousant Milligan, Forrest City	January, 2011
Ron Rhodes, Cherokee Village	January, 2013

OFFICERS OF THE BOARD—2008-2009

Mike Gibson	Chair
Mike Medlock	Vice-Chair
Florine Tousant Milligan	Secretary

PRESIDENT OF THE UNIVERSITY SYSTEM

J. Leslie Wyatt, B.A., B.F.A., M.F.A., Ph.D.

CHANCELLOR OF THE UNIVERSITY

Robert L. Potts, B.A., J.D., M.L.

Officers of the University 2008-2009

Executive Officers

ROBERT L. POTTS, 2006 (Nov.) B.A., Southern Adventist University J.D., University of Alabama School of Law M.L., Harvard University	Chancellor of the University
EDWIN KREMERS, 1994 B.S., Arkansas Tech	Vice President for Finance and Administration
G. DANIEL HOWARD, 2008 B.S., Manhattan College M.S., Indiana University M.P.H. Indiana University H.S.D., Indiana University Ph.D., Indiana University	Vice Chancellor for Academic Affairs and Research Professor of Educational Leadership in the Department of Educational leadership, Curriculum and Special Education
GLENDALL JONES, JR., 2002 B.B.A., Henderson State University J.D., University of Arkansas - Fayetteville M.L., University of Florida	Senior Associate Vice Chancellor for Academic Affairs and Research —Assistant to the Chancellor for Diversity Initiatives
WILLIAM R. STRIPLING, 1979 B.A., University of Tampa M.R.C., Arkansas State University Ph.D., Southern Illinois University	Vice Chancellor for Student Affairs

Academic Deans and Chair of Independent Department

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
KIM PITTCOCK, 1998 B.S., Texas Tech University M.S., University of Tennessee Ph.D., Texas Tech University	Associate Dean, College of Agriculture —Associate Professor of Agriculture
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, 1992 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
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
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

JOHN BEINEKE, 1999 B.S., Marion College M.A., Ball State University Ed.D., Ball State University	Dean, College of Education —Professor of Educational Leadership and Curriculum, and History
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
DANIEL REEVES, 1999 B.A., West Liberty State College Ed.M., University of Pittsburgh Ed.D., Illinois State University	Dean, College of Fine Arts —Professor of Art
GILBERT LEN FOWLER, JR., 1978 B.S., Arkansas State University M.A., University of Mississippi Ph.D., Southern Illinois University—Carbondale	Associate Dean, The Honors College —Professor of Journalism
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
CAROL O'CONNOR, 2002 B.A., Manhattanville College M.Ph., Yale University Ph.D., Yale University	Associate Dean, College of Humanities & Social Sciences —Professor of History
GEORGE GRANT, 2003 B.S., Morehouse College M.S.L.S., Atlanta University Ph.D., University of Pittsburgh	Dean, Library and Information Resources
JEFFREY A. HELMES, 2007 B.S., U.S. Military Academy at West Point M.S., Long Island University	Chair, Independent Department of Military Science —Professor of Military Science
SUSAN N. HANRAHAN, 1995 B.S., University of Kansas M.P.A., University of Kansas Ph.D., Temple University	Dean, College of Nursing and Health Professions —Professor of Physical Therapy
VERLENE RINGGENBERG, 1994 B.S.E., Pittsburg State University M.S.E., Pittsburg State University Ed.D., Arkansas State University	Dean, Regional Programs
LYNITA M. COOKSEY, 1993 B.S., Arkansas State University M.S., Arkansas State University Ph.D., Oklahoma State University	—Interim Dean, University College —Associate Vice Chancellor for Academic Services —Associate Professor of Environmental Entomology
ANDREW SUSTICH, 1991 B.S., University of Illinois - Urbana/Champaign M.S., University of Illinois - Urbana/Champaign Ph.D., University of Illinois - Urbana/Champaign	Dean of Graduate School Dean of Honors College —Professor of Physics

The University

MISSION

Arkansas State University *educates* leaders, *enhances* intellectual growth, and *enriches* lives. (ASU=e³).

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 The Arkansas State University System since July 1, 1995. Dr. Robert Potts became the first chancellor of Arkansas State University in November 2006.

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 1955, and ASU began offering its first doctoral degree, in educational leadership, in the fall of 1992. A second doctoral program in environmental science began in the fall of 1997, and the doctoral program in heritage studies began in the fall of 2001. The molecular biosciences doctoral program 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 Academic Affairs and Research.

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 20 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), **Newport** (Jackson County), and **Heber Springs, Marked Tree and Searcy** where associate degree programs are offered. 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 and currently operates under ASU-Newport. A new campus is being built for ASU-Heber Springs, which operates as a sister campus of ASU-Beebe. Foothills Technical Institute at Searcy 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 612,835 books and periodical bound volumes, 585,990 federal and state documents, and 586,607 units in microform. The collection includes most subject fields, but emphasizes education, history, fine arts, general reference, health professions, 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 print 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 15 professional librarians and 22 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 include 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. Scanning, color printing, banner printing, audio and video preview rooms, and laminating services are available. Additionally, Media services lends audio-visual materials and equipment for short-term use to students and faculty.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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.

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—4 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).

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.

ENTERING FRESHMEN

To be considered for admission to Arkansas State University, an applicant must submit the following:

1. An application for admission by the first day of classes.
2. A \$15 nonrefundable processing fee. *
3. An official High School Transcript mailed directly from the high school** OR the result of the General Education Development (GED) examination mailed directly from the State Department of Education. Home schooled students should mail equivalent documents. Hand carried documents are NOT considered official unless submitted in a sealed, stamped school envelope or faxed directly from the previous institution. If you are currently enrolled in high school, a second transcript must be sent AFTER you have graduated listing your graduation date and final school GPA.
4. Official ACT scores, SAT scores, ASSET or COMPASS scores** mailed directly to the university from the testing institution or the high school. Test scores are only valid five years from date of exam.
5. Final official Transcript from all colleges attended, if any.
6. Proof of (2) immunizations for measles, mumps, rubella and rubeola. The vaccine must have been received after the first birthday and after 1/1/68.
7. Proof of registration with the Selective Service System (males 18-25).
8. A minimum ACT composite score of 18 or a minimum final high school GPA of 2.35. Comparable scores on the SAT, ASSET or COMPASS may be submitted for consideration.

*Application processing fees are not covered by scholarship.

** Hand-carried documents are not considered official records.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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.

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.)

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

FRESHMAN ASSESSMENT AND PLACEMENT

The Arkansas State Board of Higher Education (SBHE) Freshman Assessment and Placement Program prescribes statewide minimum standards for determining whether entering freshmen should be placed in college level math and English courses or in developmental courses in math, English composition, and reading. At ASU, students whose scores dictate placement in developmental programs **MUST ENROLL IN THOSE COURSES DURING THEIR FIRST ACADEMIC YEAR.**

Any first timer freshman with an ACT composite score of <19 (or comparable SAT) or requiring two or more developmental courses in different disciplines is considered "AT RISK" academically. Any student without an ACT or SAT composite score will be considered "AT RISK" if one or more ASSET or COMPASS scores is/are below the established cut score as described below. At risk students may not take more than 12 credit hours per semester and may not declare a major until he/she has completed all developmental courses and 24 credit hours with a cumulative GPA of 2.00. All at risk students will be required to participate in the Right Start program until the above requirements are met.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Students requiring enrollment in more than 12 hours for scholarship purposes may petition through the Wilson Advising Center to take up to 15 hours maximum.

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 introductory (pre-college level) mathematics course or courses as stated below. Students must earn a grade of "C" or better in these courses before enrolling in college level mathematics courses. Students with:

ACT Math scores in the 0-16 range (or ASSET/SAT/COMPASS equivalencies)
ENROLL IN MATH 0003, INTRODUCTORY ALGEBRA

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

English Composition

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

ACT English scores in the 0-13 range (or SAT/ASSET/COMPASS equivalencies)
ENROLL IN UC 0003, LANGUAGE DEVELOPMENT (and successfully complete the course before advancing to the next level)

ACT English scores in the 14-18 range (or SAT/ASSET/COMPASS/equivalencies)
ENROLL IN ENG 0002, Basic Writing.

Students must earn a grade of "C" or better in UC 0003 and/or ENG 0002 before advancing to ENG 1003.

***NOTE: Students must earn a grade of "C" or better in ENG 1003, Composition I before taking ENG 1013, 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 and/or UC 0123, College Reading II

Students with:

ACT Reading scores in the 0-15 range (or SAT/ASSET/COMPASS equivalencies)
ENROLL IN UC 0113, COLLEGE READING I (and successfully complete the course before advancing to the next level)

ACT Reading scores in the 16-18 range (or SAT/ASSET/COMPASS equivalencies)
ENROLL IN UC 0123, COLLEGE READING II

Students must earn a grade of "C" or better in UC 0113 and/or UC 0123.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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. Enrollment will be limited to 12 hours until developmental course requirements are completed.

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, mumps, rubella and rubeola. 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).

TRANSFER STUDENT ADMISSION:

- (1) Students who have completed 12 or fewer semester credit hours will be admitted under conditions for new freshmen and must submit high school transcripts and ACT scores in addition to all college transcripts.
- (2) Transfer students who have completed 13 to 23 or more transferable credit hours with a cumulative GPA of at least 2.000 at a regionally accredited college or university and evidence of ACT scores or compliance with the state-mandated remediation requirements will receive unconditional admission.
- (3) Applicants with 24 or more transferable hours must present final, official transcript from all colleges attended.
- (4) Transfer students with a cumulative GPA of less than 2.000 may be admitted on academic warning if the GPA for the last 12 transferable semester hours is at least 2.000, or there has been a separation from all academic institutions for at least one semester (excluding summer).

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

REQUIRED REMEDIATION FOR TRANSFER STUDENTS

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.

READMISSION OF FORMER STUDENTS

Returning 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 must provide proof of immunization for measles, mumps, rubeola and rubella.

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 for measles, mumps and rubella, 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

ADMISSION AND ENROLLMENT OF INTERNATIONAL STUDENTS

Arkansas State University provides access to a quality education to international students at an affordable cost, in a caring and supportive environment. A citizen of a nation other than the United States of America (including Permanent residents) wishing to apply for admission to Arkansas State University should write to the Office of International Programs, Arkansas State University, P.O. Box 2910, State University, AR 72467 USA or email international@astate.edu. Future international students may also visit our website at <http://www.astate.edu/international>.

ASU International Programs office encourages all applicants to submit the completed application and all supporting documents at least 45 days prior to the desired enrollment date.

International applicants must provide the following documents:

- 1. Application and Processing Fee**—A formal application for admission, accompanied by a \$40.00 (U.S. funds) non-refundable processing fee. Evaluation of academic records and subsequent issuance of the I-20 will not begin before the processing fee is received. Application forms can be downloaded and printed from <http://www.astate.edu/international>.
- 2. Authenticated Copies of all Academic Records**— All undergraduate applicants must submit an attested or notarized copy of the high school diploma in English. Students seeking to transfer from another university or college must submit official transcripts from those institutions. A transcript evaluation by an independent agency (e.g., World Education Service or Education Credential Evaluators) may be required and, if so, will be the responsibility of the student.
- 3. Proof of English Proficiency**—
 - o Completing ASU's ESL Program Minimum grade of 80% or above
 - o TOEFL – Paper-Based 500 – (ASU's Code:6011)
 - o TOEFL – Computer-Based 173– (ASU's Code:6011)
 - o TOEFL – Internet-Based 61– (ASU's Code:6011)
 - o IELTS – Academic 5.5- Official Score from British Council
 - o English as Official Language CIA World Fact Book
 - o Completing required level of a CEA Accredited ESL program
 - o Obtaining minimum 60% in English at X and XII in Certificate in India and Pakistan
 - o Completing the required level if a language program, which has a formal agreement with ASU (check with International Programs)
 - o High School Graduate (minimum 2 years of attendance) from USA, UK, Canada, Australia, and New Zealand
- 4. Financial Affidavit**— A letter of certification (dated not more than six months prior to the desired enrollment date) from a financial institution (acceptable to the University) stating that the sponsor(s) of the applicant has/have sufficient funds (equivalent to estimated annual cost of attendance, which can be found at www.astate.edu/international)
ASU does not guarantee or promise any financial assistance to any international student.

International students seeking to transfer from another college, university, or an institution (including language schools) within the United States must be in good academic standing at that institution and must also submit an international student transfer clearance form completed by the international student advisor at the transferring institution.

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 \$498.00, is added to each semester's tuition bills.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

THE OFFICE OF INTERNATIONAL PROGRAMS

The Office of International Programs (OIP) helps bring the world to ASU, and take ASU to the world. The office is located in Suite 200 on the main floor of the International Student Center and can be reached by phone at +1 (870) 972-2329, by email at international@astate.edu, or by visiting the web site at <http://www.astate.edu/international>.

The OIP is responsible for the admission of all international Students (including permanent residents), as well as students coming for one or two semesters from one of ASU's international exchange partners.

Some of the services provided by OIP for International Students are:

- o New International Student Orientation
- o Advising and Registration
- o Social, Cultural and Immigration Advising
- o Site Seeing Tours and Events
- o 24 hours Emergency Assistance
- o Free Airport Transfer Services from and to Memphis International Airport
- o Health Insurance
- o ASU Housing and Meal Plan Assistance

Detailed information regarding admissions and services provided by International Programs for international students is available at <http://www.astate.edu/international>.

Study Abroad: International Programs serves as an information and advising resource for students, faculty, and staff exploring educational opportunities at an international level. Students will learn about programs to various destinations around the world led by ASU faculty or as individual student initiatives.

Short-term study programs led by ASU faculty are offered during spring break or summer sessions, are arranged for student groups, university classes, and may occasionally permit participation by community members.

Long-term programs consist of semester- and year-long exchanges. These academic sojourns 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. Language of instruction is in English unless a student wants to pursue coursework directed in a different language. In addition, foreign language instruction is a popular goal of many students who study overseas.

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

Austria	Belgium	Belize
Brazil	China	England
Finland	France	Germany
Iceland	Jordan	Korea
Mexico	Morocco	The Netherlands
New Zealand	Spain	Sweden

Visit <http://www.astate.edu/international> to learn more about study abroad offerings at ASU.

The Study Abroad Advisor helps students identify programs, not only with these exchange partners, but in any country a student may wish to pursue academic opportunities. The office also provides advising for students applying for grant and scholarship applications intended for international educational experiences. The Gilman Scholarship, Fulbright Fellowships, and the National Security Education Program (NSEP) are examples of such scholarships and grants.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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 Study Abroad Advisor also assists students in applying for Middle East Studies Grants, an offering exclusive to ASU students, faculty and staff. Students interested in study or research projects involving the Middle East and North Africa may apply for funding through the Middle East Studies Committee, coordinated through International Programs, and seek grant-writing support through the Study Abroad office.

THE ENGLISH AS A SECOND LANGUAGE PROGRAM (ESLP)

The English as a Second Language Program supports the initiative of bringing the world to Arkansas State University through English language instruction aimed at preparing international students for matriculation at the graduate and undergraduate levels. Students completing the English as a Second Language Program are not required to submit additional test scores and are admitted to ASU as long as they meet other admission requirements.

The English as a Second Language Program is an intensive and comprehensive program consisting of five levels and a "zero-beginner" level for students with little or no experience in English. Courses in the four skills of reading, writing, listening, and speaking and grammar are given through content based instruction utilizing texts, activities, and student-centered instruction. An additional component of the program is its feature of interweaving and combining the skills (e.g., reading and writing, listening and speaking, etc.) to further emulate real life language usage as well as experiences students will have while matriculating in college. Students enrolled in the program can expect to be engaged in learning that not only facilitates language acquisition but also gives them a solid foundation in skills necessary for successful study in a college or university such as note taking, giving oral presentations, working in a group, writing essays and papers, etc.

Detailed information and answers to questions about the English as a Second Language Program can be obtained by e-mail at esl@astate.edu or by phone at +1 870-972-3504.

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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Fees and Expenses

http://studentaccounts.astate.edu/tuition_fees.html

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 website at http://studentaccounts.astate.edu/tuition_fees.html

GENERAL REGISTRATION FEES PER TERM*	PER HOUR
Undergraduate Tuition	
Arkansas Resident	\$163.00
Non-Resident	\$427.00
Graduate Tuition	
Arkansas Resident	\$208.00
Non-Resident	\$530.00
Infrastructure Fee	\$4.00
Athletics Fee	\$12.00
Student Union Fee	\$10.00
Information Technology Fee	\$10.00
Library Fee	\$6.00

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 PER TERM*

Regular	PER HOUR
Off Campus Courses, including distance learning classes:	
ASU Arkansas Resident Undergraduate	\$238.00
Non-Resident Undergraduate	\$499.00
ASU Arkansas Resident Graduate	\$268.00
Non-Resident Graduate	\$589.00
ASU Distance Education Host Fee	\$20.00
ASU Beebe Arkansas Resident Undergraduate	\$243.00
Non-Resident Undergraduate	\$504.00
ASU Beebe Arkansas Resident Graduate	\$273.00
Non-Resident Graduate	\$594.00
ASU Beebe Distance Education Host Fee	\$25.00
ASU Paragould/Greene County Residents (Freshman/Sophomore)	\$60.00
ASU Paragould/Non-Greene County Residents (Junior/Senior)	\$163.00
ASU Paragould/Non-Residents (Freshman/Sophomore)	\$427.00
ASU Paragould/Non-Residents (Junior/Senior)	\$427.00
Undergraduate NHP Support Assessment	\$17.50
Undergraduate COB Support Assessment	\$17.50
Graduate NHP Support Assessment	\$42.00
Graduate COB Support Assessment	\$42.00
Information Technology Fee	\$10.00

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.

To access downloadable tuition and fee tables, go to the Student Accounts website at http://studentaccounts.astate.edu/tuition_fees.html.

MISCELLANEOUS FEES*	FLAT
Academic Clemency Processing Fee.....	\$30.00
Yearbook Fee Per Semester	\$10.00
(Mandatory for full-time students, optional for part-time students)	
Graduation Fee	
Undergraduate	\$45.00
Masters	\$65.00
Specialist.....	\$75.00
Doctorate.....	\$125.00
Student Activity Fee (Fall and Spring semesters only).....	\$20.00
Application for Admission Processing Fee	
International Students	\$25.00
United States Citizens	\$15.00
ASU Assessment Fee.....	\$5.00
Fee for International Students requiring third party billing	\$25.00
Late Payment of Tuition Fee.....	\$25.00
Penalty for Checks Returned for Insufficient Funds, etc.	\$25.00
Installment Fee	\$40.00
Tuition Deferment	\$40.00
Audit Fee/Credit hour	Same as Tuition and Fees

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 The Village rentals)
3. A permanent identification card will be issued to students during the first semester of attendance. A \$10 replacement fee will be assessed for lost IDs.
4. The charges for room and board for less than a full semester are computed on the base rate for the period of occupancy.
5. The residence halls and cafeteria will be open during the periods classes are in session. Vacation periods are not included in the regular room and board charges.
6. Residents are expected to occupy their rooms during the entire session for which the rooms are reserved, unless they are forced to withdraw from the university because of illness or other valid reasons.
7. Room and Board may be paid in four (4) installments. Students seeking such arrangements should contact Student Account Services.

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

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

RESIDENCE LIFE ROOM AND BOARD RATES— 2008-2009					
Fall and Spring Rates per semester					
Residence Hall Rates	5-Day Plan	5-Day Plan+ 100 Declining Balance	7-Day Plan	7-Day Plan+ 50 Declining Balance	7-Day Plan+ 200 Declining Balance
Double:					
Arkansas	\$2,503.00	\$2,553.00	\$2,528.00	\$2,553.00	\$2,703.00
Kays	\$2,503.00	\$2,553.00	\$2,528.00	\$2,553.00	\$2,703.00
University	\$2,503.00	\$2,553.00	\$2,528.00	\$2,553.00	\$2,703.00
Single:					
Arkansas	\$2,578.00	\$2,628.00	\$2,603.00	\$2,628.00	\$2,778.00
Kays	\$2,578.00	\$2,628.00	\$2,603.00	\$2,628.00	\$2,778.00
Northpark Quads 2-5	\$2,703.00	\$2,753.00	\$2,728.00	\$2,753.00	\$2,903.00
Northpark Quads 1	\$2,853.00	\$2,903.00	\$2,878.00	\$2,903.00	\$3,053.00
University	\$2,578.00	\$2,628.00	\$2,603.00	\$2,628.00	\$2,778.00
Single Deluxe:					
Arkansas	\$2,603.00	\$2,653.00	\$2,628.00	\$2,653.00	\$2,803.00
University	\$2,603.00	\$2,653.00	\$2,628.00	\$2,653.00	\$2,803.00
Meals Only:					
	\$1,103.00	\$1,153.00	\$1,128.00	\$1,153.00	\$1,303.00

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, 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 is purchased. The declining balance points must be used by the end of the spring semester to avoid forfeiture.

SUMMER 2008—ROOM AND BOARD (per five week term)

Residence Hall

Northpark Quads	\$425.00
250 Flex Points	\$300.00
300 Flex Points	\$325.00
350 Flex Points	\$375.00

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.

To access downloadable tuition and fee tables, go to the Student Accounts website at http://reslife.astate.edu/current/rates_residence_halls0809.shtml.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

COLLEGIATE PARK	Fall & Spring 2008-2009 Semester	Summer 2008 Per Term
2 Bedroom / 2 Bath	\$1,890.50	\$630.00
2 Bedroom / 1 Bath	\$1,732.50	\$577.50
4 Bedroom Townhouse	\$1,642.50	\$547.50
4 Bedroom / 2 Bath	\$1,600.00	\$533.33
THE VILLAGE	Fall & Spring 2008-2009 Semester	Summer 2008 Per Term
Houses	\$2,070.00	690.00
THE VILLAGE APARTMENTS	Fall & Spring 2008-2009 Semester	Summer 2008 Per Term
1 Bedroom	\$2,437.50	\$812.50
2 Bedroom	\$2,835.00	\$945.00
2 Bedroom w/WD	\$2,947.50	\$982.50
3 Bedroom	\$3,285.00	\$1,095.00

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. The 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 Village Apartments are designed to offer affordable, comfortable, and accessible living accommodations to the students and their families. A laundry is located in The 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

Semester		Five-Week Terms	
1st - 5th class day	100%	First and second day	100%
6th - 10th class day	75%	Third and fourth day	75%
On or after 11th class day	None	On or after 5th class day	None

Students eligible for refund should contact Student Account Services at (870) 972-2285 when the drop or withdrawal process has been completed.

To access downloadable tuition and fee tables, go to the Student Accounts website at http://reslife.astate.edu/current/rates_residence_halls0809.shtml.

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.**

ACADEMIC RECORDS PRIVACY RIGHTS

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

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

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

Academic records may be released to the Arkansas Department of Higher Education or other agencies in compliance with FERPA. Questions concerning the Family Education Rights and Privacy Act should be referred to the Registrar's Office.

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 to the Office of the Registrar. Students can also use "Banner Self-Service" to request an official transcript. **NOTE: 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

ASSESSMENT REQUIREMENTS

Arkansas State University (ASU) is dedicated to providing quality academic programs; therefore, assessment for improvement of academic programs and learning is of primary importance to the university. Students are responsible for participating in any mandatory state and institutional assessment exams or related activities. Failure to participate in required assessments can prevent registration and delay degree completion and graduation.

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.

STUDENT ACADEMIC LOAD

The maximum academic load for students with less than a 2.00 semester or cumulative GPA shall not exceed 12 hours per semester or 12 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.

The maximum academic load for students with less than a 3.500 GPA but at least a 2.00 shall not exceed 18 hours per semester, 14 hours during the summer term, which includes any combination of five- or ten-week courses, (Internet or correspondence courses are inclusive and/or other courses no matter how delivered or where taken.), or 3 hours in an interim. However, a one hour overload is permitted during the last enrollment period (semester or five week term) if the one hour overload will complete graduation requirements.

Students holding a cumulative grade point average of 3.50 or above may request permission of the dean of their college to schedule up to 21 hours in a semester and 14 hours total in the two five-week summer terms combined. (This policy is applicable only on a five-days-per-week schedule.)

First time freshmen students and/or students with less than 30 hours should not enroll in more than 12 semester hours on a three-day schedule (MWF) or no more than 9 hours on a two-day schedule (TTh). Sophomores and above should enroll for no more than 15 semester hours on a three-day schedule (MWF), or no more than 12 semester hours on a two-day schedule (TTh). It is strongly recommended that first time students enroll in no more than 12 semester hours on a three-day schedule and 9 hours on a two-day schedule.

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.**

Students who receive the University Honors Scholarship, the Chancellor's Scholarship and the Dean's Scholarship should be enrolled in a minimum of 15 semester hours each fall and spring term. Students who receive the University Honors Scholarship should also take at least one three-hour honors course each term.

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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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).

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.)

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.

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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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.

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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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.**

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.

Advanced Placement Exam	Minimum AP Score for Credit	ASU Credit
American History	3	HIST 2763
American History	4	HIST 2763 & HIST 2773
Aural Perception	3	MUS 1411
Aural Perception	4	MUS 1411 & MUS 1421
Biology	3	BIOL 1003
Biology	4	BIOL 1003 & 1001
Calculus AB	3	MATH 2204
Calculus BC	4	MATH 2204 & MATH 2214
Chemistry	3*	CHEM 1013 & 1011
English Lit/Comp or Lang/Comp	3	ENG 1003
English Lit/Comp or Lang/Comp	4	ENG 1003 & ENG 1013
English Lit/Comp <u>and</u> Lang/Comp	3, 3	ENG 1003 & ENG 1013
Environmental Science	3	BIOL 1063
Environmental Science	4	BIOL 1063 & BIOL 1001
European History	4	HIST 1023
Foreign Language	3**	FR 2013, GER 2013 or SPAN 2013
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 & 2081 or PHYS 2044
Physics C (Mechanics)	4	PHYS 2073 & 2071 or PHYS 2034
Psychology	3	PSY 2013
Statistics	4	STAT 3233
Studio Art (Drawing Portfolio)	3	ART 1033
Studio Art (General Portfolio)	3	ART 1013
World History	4	HIST 1013

*plus departmental validation of lab skills
 **plus completion of intermediate II

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.

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.

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.

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. 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. Credit may be awarded for two general examinations (G) and thirteen subject matter examinations (S) from the following areas.

**REQUIRED MINIMUM CLEP SCALED SCORES
FOR GRANTING CREDIT AT ARKANSAS STATE UNIVERSITY**

Course Name	Sem. Hours	Exam Type	CLEP Exam	Min. Score
ENG 1003	3	G	English Comp w/Essay	52
ART 2503	3	G	Humanities	51
ENG 2003 & 2013	3	G	Humanities	51
ACCT 2033	3	S	Intro. to Financial Accounting	50
ECON 2313	3	S	Prin. of Macroeconomics	55
ECON 2323	3	S	Prin. of Microeconomics	55
HIST 1013	3	S	Western Civilization I	44
HIST 1023	3	S	Western Civilization II	50
HIST 2763	3	S	History of U.S. I	58
HIST 2773	3	S	History of U.S. II	51
MGMT 3123	3	S	Prin. of Management	50
MKTG 3013	3	S	Prin. of Marketing	50
POSC 2103	3	S	American Government	51
PSY 2013	3	S	Intro. to Psychology	47
SOC 2213	3	S	Intro. to Sociology	53
MATH 1023	3	S	College Algebra	50

RESIDENCY REQUIREMENTS FOR DEGREE COMPLETION

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

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.

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.

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:

Fall	fall semester every year
Spring	spring semester every year
Summer	summer terms
Demand	upon demand (with sufficient enrollment)
Even	offered even-numbered years
Odd	offered odd-numbered years

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:

GRADE	DESCRIPTION	EXPLANATION	GRADE PTS./HR
A	excellent;	for outstanding achievement	4
B	good;	for less than outstanding but demonstrating better performance than the normal competency required for satisfactory progress toward graduation	3
C	satisfactory;	for performance that demonstrates the normal competency required for satisfactory progress toward graduation	2
D	poor;	for performance that meets minimum course requirements but is below standards required for satisfactory progress toward graduation	1
F	failure;	for performance that does not meet minimum course requirements and for which no degree credit is justified	0
P	pass;	for satisfactory performance (non-degree credit courses only - no degree credit)	0
CR	credit;	for meeting minimum degree credit standards for courses not requiring letter grades	0
NC	no credit	for NOT meeting minimum degree credit standards for courses not requiring letter grades	0

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

GRADE	DESCRIPTION	EXPLANATION	GRADE PTS./HR
AU	audit;	for meeting all course requirements except taking examinations and completing written papers	0
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.)	0
W	withdrawal;	for dropping an individual course OR for complete withdrawal from the university	0
WN	administrative drop	dropped for non-attendance during the first eleven days of class	0
FN	failure;	failure to attend and not withdraw from the University	0

*A grade of "I" (incomplete) is appropriate on the final grade roster when a student fails to meet all course requirements for reasons beyond his/her control, i.e., illness of the student, or serious illness or death in the family, or extended research projects at the graduate level. Procrastination, pressure of work in other courses, or work not connected with the student's school load are not satisfactory reasons for an "I" grade. All "I" grades must have prior approval of the chair of the department in which the course is offered, which requires the "Request for Incomplete Grade" form to be on file with the department and the Office of the Registrar.

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.

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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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

The student should be aware that the grade of D or F from any previous attempts will remain on the transcript. The previous attempts will be indicated by an "E" in the repeat column.

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

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

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

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 G.P.A, 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

HONOR ROLL

An honor roll consisting of the **Chancellor'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.

Chancellor'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 placed on academic probation are restricted to enrollment in 12 credit hours until 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 their first semester must enroll in and successfully complete College Choices, a one-credit study skills course their next enrollment period. Students will be restricted to 12 credit hours of enrollment until the probation status is removed. 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. Students on probation or suspension may complete a maximum of 12 hours during any combination of summer terms.

READMISSION FOLLOWING ACADEMIC SUSPENSION

Upon academic suspension from ASU, students should contact the Wilson Advising Center to review the terms for admission following an academic suspension. (870) 972-3001.

First Suspension: Students who wish to return to ASU-Jonesboro within four semesters following a first academic suspension may seek immediate readmission with conditional enrollment by applying to the *Restart@state* Program through the Wilson Advising Center prior to the close of the first class day. **Program fees apply.** No more than 12 credit hours may be earned at ASU while participating in the *Restart@state* program. During this conditional enrollment period (the Restart semester), students who withdraw, are administratively withdrawn, fail the Restart course, or fail to make a 2.00 semester GPA, will be placed on a second suspension to be served the following semester. [See "Second Suspension" below.] Successful completion of the *Restart@state* program requirements, however, will lead to normal enrollment the subsequent semester. Upon first suspension, students who sit out for four consecutive semesters (excluding summers) will **not** be required to participate in the *Restart@state* Program: with approval of the Wilson Advising Center, such students will be granted conditional or automatic readmission. **All students considering taking coursework elsewhere while on first suspension from ASU are strongly advised to meet with their ASU academic advisors for guidance on course selection.** [See "Transferring Work from Other Institutions while on First Suspension" below.]

Second Suspension: With approval of the Wilson Advising Center, students will be granted conditional or automatic readmission after serving one semester (excluding summer) of 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 suspension at ASU.**

Third and Subsequent Suspensions: With approval of the Wilson Advising Center, students will be granted conditional or automatic readmission after two consecutive semesters (excluding summer) of 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.**

Transferring Work from Other Institutions while on First Suspension: ASU will review transfer work completed while on a first suspension only after the student returns and successfully completes 12 hours with a 2.00 GPA, as well as the *Restart@state* program (if required). No more than 12 credit hours of coursework completed at another accredited college or university while on a first academic suspension from ASU will be considered for transfer and only if the coursework:

- (a) removes deficiencies, such as the required high school core or developmental coursework; and/or
- (b) is a course retaken per the ASU recomputation 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.

Coursework completed elsewhere in a summer session after an earned suspension the preceding academic year (Fall or Spring semester) will be considered for immediate transfer.

No credit hours earned at other institutions during a period in which the student is on mandatory second, third, or subsequent suspension from ASU-Jonesboro will be accepted for transfer by Arkansas State University. However, because summer semesters cannot be used to serve a suspension, completed summer coursework from other institutions is always considered for transfer.

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 if 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.

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.

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 hours toward an associate degree. **(Arkansas Act 88 of 1979 exempts nursing students from these maxima. Confer with the Chair, School of Nursing for information.)**

4. Earn a grade of C or better in ENG 1003 and ENG 1013.
5. Initiate an INTENT TO GRADUATE form and pay the graduation fee when registering for the final enrollment period before completing all degree requirements **(If the student is unable to graduate at the end of the semester for which application has been made, a new INTENT TO GRADUATE form must be filed during the next semester in which the student expects to graduate. If the graduation fee has already been paid, you DO NOT have to repay the fee).** An official record of correspondence or transfer work completed at another institution must be on file in the Registrar's Office at Arkansas State University at least three weeks before the degree is to be granted.
6. Have an average of C or better on all work attempted, on work in the major field, and, if a transfer student, on all work taken at this institution.
7. Complete graduation requirements under the provisions of an ASU-Jonesboro catalogue that is not more than seven years old at the time of the student's graduation, provided the student was enrolled in residence at a regionally accredited institution of higher education during the year the catalogue was in effect.

UNIVERSITY GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

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

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*.

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.

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.

CAREER SERVICES CENTER

Student Union, Suite 2167

(870) 972-3025 Office Hours: Monday – Friday, 8:00 am – 5:00 pm

<http://careers.astate.edu>

The Career Services Center offers a variety of employment and career-related services to help students prepare for their future as productive global citizens.

Individual career guidance is available to help you explore options for career opportunities within your majors. Resources include 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.

Career Services sponsors numerous career events that include job fairs, 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 the Career Connections web system daily. Schedules of employers conducting interviews in the Career Services Center are also listed in Career Connections.

For assistance or more information visit us on the web at <http://careers.astate.edu>, or stop by our office.

COUNSELING CENTER

The Counseling Center provides specialized services designed to 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, academic performance issues, depression, anxiety, grief, or other concerns about handling the demands of college life. The center also offers outreach workshops addressing various student concerns such as choosing a major, sexual assault prevention, and alcohol and drug abuse.

The Counseling Center is located in Suite 2203, Reng Student Services Center. Business hours are 8 a.m. to 5 p.m. Monday through Friday. You may contact us by telephone at (870) 972-2318. If you need to speak to a counselor after business hours, call the University Police Department at (870) 972-2093 and ask them to contact a counselor.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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 second floor (Room 2181) of the Reng Student Services Center. 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) 972-3458.

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

The office seeks to obtain maximum funding for all aid programs—federal, institution, 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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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>.

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 Requirements

The DELTA SCHOLARSHIP

- 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 3.000 on a 4.000 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

Renewal

This scholarship does not combine with the ASU Academic Merit or an ASU tuition scholarship
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

Deadline

Incomplete applications will not be considered
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.

NEW STUDENT ORIENTATION

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

RESIDENCE HALL GOVERNANCE

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

RESIDENCE LIFE

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

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

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

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

Special housing for students in The Honor College may be arranged providing students meet requirements for participating in the honors program and meet residence life deadlines.

STUDENT ACTIVITIES BOARD (SAB)

(<http://union.astate.edu>)

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, Issues and Awareness, and Cultural Enrichment. SAB welcomes your participation by joining one of its committees—GET INVOLVED!

STUDENT AFFAIRS, DIVISION OF

The Division of Student Affairs at Arkansas State University is under the leadership of the Vice Chancellor for Student Affairs. The goal of the Division 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

STUDENT CONDUCT

Arkansas State University promotes community standards through education. The University has a duty to protect its educational purpose by setting standards of conduct. The Standards of Student Conduct that all students must abide by are found at <http://studentconduct.astate.edu>. The guiding principles of university regulations is to promote student responsibility and accountability while protecting the community as a whole. The University has jurisdiction over any student or student organization alleged to have violated the Standards of Student Conduct. Off-Campus violations can also subject a student to the jurisdiction of the University Conduct System. Every Student is responsible for living up to the standards that Arkansas State University has put forth in its policies.

Students are expected to conduct themselves in an appropriate manner and conform to the set Standards of Student Conduct at all times. Students who fail to abide by the University policies set forth in the Standards of Student Conduct fall under the jurisdiction of the Office of Student Conduct and the conduct process. Students who are found responsible for violating institutional policies will be sanctioned in an educational manner. Sanctions that can be imposed as well as the conduct process can be found at <http://studentconduct.astate.edu>.

All students are expected to know and observe the rules and regulations set forth in the Standards of Student Conduct. Failing to educate oneself is not considered an acceptable reason for violating these policies.

STUDENT HEALTH CENTER

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

The SHC is located on Stadium Blvd. adjacent to First Care and the Sports Medicine facilities. Our entrance faces the Football stadium parking lot. The SHC is open Monday through Friday, from 8 a.m. to 5 p.m. The SHC prefers for students to call to make an appointment with one of the Family Nurse Practitioners or Nurse Educator, however, walk-ins may be accepted on a first-come, first-serve basis. The clinic is closed for lunch from noon until 1:00 p.m.

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

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

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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

TESTING CENTER

The ASU Testing Center is certified by Educational Testing Service (ETS), American College Testing (ACT), the Psychological Corporation, Pearson VUE 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) **

Undergraduate Admission

ACT Assessment

Test of English as a Foreign Language (TOEFL)**

COMPASS Diagnostic Assessment **

Assessment

COMPASS Placement Exam **

PRAXIS I: Pre-Professional Skills Test (PPST)**

Post-Graduate

Graduate Management Admission Test (GMAT) **

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

National Counselor's Exam (NCE)

**offered ONLY on computer

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 eighteen 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.

Each university police officer meets standards established by Act 452 of 1975 (compiled Ark. Stat. Ann. 42-1009) as being certified by the State of Arkansas as a certified law enforcement officer.

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.

VOCATIONAL REHABILITATION

Persons who have a permanent disability may receive personal and vocational counseling and financial assistance while pursuing their college education. The vocational objective of the disabled person must be approved by a Vocational Rehabilitation counselor.

These services are available through the Division of Vocational Rehabilitation, State Department of Education, Little Rock, AR 72201. Information relative to the program may be obtained from the Student Account Services or the Coordinator for Special Services located in the Office of Student Affairs.

VOLUNTEER SERVICES PROGRAM

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

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

Activities and Organizations

ACADEMICALLY RELATED ORGANIZATIONS

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

College of Agriculture

Agriculture Business Club	Collegiate FFA
Agriculture Council	Collegiate Farm Bureau
Alpha Tau Alpha	Delta Tau Alpha
ASU Rodeo Club	National Society of Black Engineers
Block and Bridle / Pre-Vet Club	Plant Science Club

College of Business

Association of Information Technology Professionals (AITP)
ASU Marketing Club
Bank Club
Commercial Banking Club
Financial Management Association (FMA)
Society for Human Resource Management (SHRM)
The Association for Operations Management (APICS)

College of Communications

American Advertising Federation
Association for Women in Communications
Gamma Epsilon Tau
National Broadcasting Society
National Press Photographers Association
Public Relations Student Society of America
Society of Professional Journalists
Undergraduate Student Research Association

College of Education

ASU Middle Level Association
Athletic Training Club
Chi Sigma Iota (Counseling Honor Society)
Physical Education Majors
Positive Psychology Club
Psi Chi (Psychology Honors Society)
Psychology Club
Sport Management Club

College of Engineering

ASU Student Chapter of The American Society of Civil Engineers
American Society of Mechanical Engineers
ASU Student Branch of The Institute of Electrical and Electronics Engineers
Society of Manufacturing Engineers
The Alpha East Arkansas National Society of Professional Engineers

College of Fine Arts

AI GA ASU Chapter	ASU Singers & Concert Choir
ASU Art Student Union	Arkansas Print Club
ASU Guitar Guild	Society of Composers Inc (SCI)

College of Humanities and Social Sciences

Alpha Kappa Delta	Phi Alpha Theta
ASU Model Arab League	Pi Alpha Alpha
ASU Philosophy Club	Pi Gamma Mu
ASU Model UN	Pi Sigma Alpha
Criminology Club	Political Science Club
Gamma Theta Upsilon	Pre-Law Club
Moot Court Team	The Literature Club

College of Nursing and Health Professions

ASU Nurse Anesthesia Student Association
ASU Student Social Work Organization
ASU Student Nurses Association
National Student Speech, Language, Hearing Association
Physical Therapy Student Association
Student Association of Clinical/Laboratory Professionals
Student Association of Radiologic & Imaging Sciences

College of Sciences and Mathematics

American Chemical Society	Mathematical Association of America
Association of Computing Machinery	Pre-Pharmacy Club
ASU Medical Arts Club	Society of Physics Students
Kappa Mu Epsilon	Upsilon Pi Epsilon

Department of Military Science

ROTC Ranger Challenge Platoon

The Honors College

Honors College Association

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. With the opening of the Cooper Alumni Center, members are connected not only to each other but to the past, present and future of the university. Through 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. They also receive special benefits such as an e-newsletter and Affairs of State, plus the award-winning magazine, Voices. For information, call (870) 972-2586 or visit <http://alumni.astate.edu>.

THE FINE ARTS CENTER ART GALLERY

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

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 INSTITUTE OF GRAPHIC ARTS—AIGA, the professional association for design. AIGA supports the interests of professionals, educators and students who are engaged in the process of designing, regardless of where they are in the arc of their careers.

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 FOR COMPUTING MACHINERY—To provide students with resources that advance computing as a science and a profession; enable professional development; and promote policies and research that benefit society.

ASSOCIATION FOR 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.

ASSOCIATION OF INFORMATION TECHNOLOGY PROFESSIONALS—To provide avenues for members of the IS field (employers, employees, managers, programmers, and others) to become and stay current in their rapidly changing technological careers.

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 MIDDLE LEVEL ASSOCIATION—Seeks to promote middle level teacher education by offering fellowship and support among students interested in the education of young adolescents. It seeks to encourage students to become involved in professional organizations at the campus, state, and national level. It provides access to resources that advance work with young adolescents and it seeks to advance the quality of the middle level teacher education program at ASU.

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 ELECTRONICS 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 BRIDLE / PRE-VET —Professional organization promoting animal science.

CHI SIGMA IOTA—International counseling academic and professional honor society. Promotes scholarship, research, professionalism, and excellence in counseling.

COLLEGIATE FFA—For students majoring in vocational agriculture.

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 EPSILON TAU—National Organization for students in Graphic Communications.

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.

MATHEMATICAL ASSOCIATION OF AMERICA—The largest professional society that focuses on mathematics accessible at the undergraduate level. MAA members include university, college and high school teachers; graduate and undergraduate students; pure and applied mathematicians; computer scientists; statisticians; and many others in academia, government, business and industry.

MEDICAL ARTS CLUB—Provides an opportunity for students who are interested in medical or health science careers to come together and participate in events to gain a better understanding of the medical world.

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 SOCIETY OF COLLEGIATE SCHOLARS – An honor society designed to provide a sense of community and continuous lifelong learning too students to meet certain academic standards.

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 HONOR SOCIETY—National honor society for social work students and professionals

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 ETA SIGMA—National scholastic honorary fraternity for freshmen.

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

PHI MU ALPHA—National professional music fraternity.

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

PI ALPHA ALPHA—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 ALPHA—National honor society for outstanding students in political science.

PLANT SCIENCE CLUB—Professional organization promoting Agronomy and Horticulture.

PRE-LAW CLUB – promotes interest and knowledge in the law and the legal profession as well as prepare students for law school and taking the required entrance exam the LSAT.

PRE-PHARMACY CLUB – encourages greater understanding between students and the pharmacy profession.

PRINT CLUB – Encourage the art of printmaking and collecting through cooperative purchasing of supplies and fundraising to assist in printmaking objects

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 ALPHA LAMBDA – Promotes and rewards academic achievement through community service, personal development, and lifelong professional fulfillment.

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

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

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

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

SOCIETY OF COMPOSERS - Promotes the creativity, performance, understanding, and dissemination of original music composition.

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

SOCIETY OF PHYSICS STUDENTS—National organization for students majoring in Physics.

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

SOCIETY OF WOMEN ENGINEERS—A service organization that empowers women to succeed and advance in the field of engineering, and to be recognized for their life-changing contributions as engineers and leaders.

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

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

STUDENT ART EDUCATION ASSOCIATION—Local branch of Art Educators and the National Art Education Association.

STUDENT ASSOCIATION OF RADIOLOGIC AND IMAGING SCIENCES—To promote the science of medical imaging and radiation therapy and worthy projects in the community.

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

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

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

UPSILON PI EPSILON—International honor society for the computing sciences. Recognizes academic excellence at both the undergraduate and graduate levels in the computing sciences.

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

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:

Alpha & Omega Ministries	Episcopal Canterbury Club
Baptist Collegiate Ministries	Jesus Christ Apostolic #2
Campus Christian Fellowship	Pagan Student Association
Campus Outreach	Revolution Campus Ministry
Catholic Newman Center	The Way
Collide	

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.

SOCIAL ORGANIZATIONS

Arkansas State University recognizes seven national sororities and ten national fraternities. All of these social organizations encourage high scholarship, social training, and good citizenship.

Sororities

Alpha Gamma Delta
Alpha Kappa Alpha
Alpha Omicron Pi
Chi Omega
Delta Zeta
Sigma Gamma Rho

Fraternities

Alpha Gamma Rho
Alpha Phi Alpha
Alpha Tau Omega
Kappa Alpha
Lambda Chi Alpha
Omega Psi Phi
Pi Kappa Alpha
Sigma Chi
Sigma Pi
Tau Kappa Epsilon

SPECIAL INTEREST ACTIVITIES

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 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 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 Pop Squad: To promote a strong sense of sportsmanship and encourage students in the ways of school spirit.

ASU Rodeo Club: It is our mission to provide the opportunity for students to earn a college degree while pursuing the sport of college rodeo.

ASU Wildlife & Fisheries Club: Founded in 1994, the mission of the Wildlife and Fisheries Club is to encourage professionalism and high standards of scholarship among individual members. The Wildlife Club focuses on wildlife needs, problems, and events in the local area and it encourages the understanding of wildlife resource management sciences. The club regularly invites speakers to talk about wildlife and fisheries issues, performs fund raisers, and community service projects related to wildlife. The Wildlife Club participates annually in the Southeastern Wildlife Conclave, a regional competition for wildlife students.

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

American Combat Arts & Self Defense System: The teaching and learning of basic self defense.

Anime Club: To explore Japanese Culture through popular media.

Arkansas State Student Activist: This organization works with the community of Jonesboro to provide a structure that will allow the community to be more committed with furthering the education of its youth.

Ballroom Dancing Club: To create affordable opportunities for ballroom dancing and dance instruction as well as it promotes the benefits of ballroom dancing to the students, faculty, staff of ASU-J and the Jonesboro community.

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.

Circle of Trust: Provides an avenue for retaining African-American females in higher education settings by providing setting standards of class, exceeding expectations, and overcoming barriers.

College Against Cancer: Promotes healthy lifestyles, educate the campus on cancer research, early detection, and prevention. They also organize the ASU-J Relay for Life.

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.

College Student Personnel Association: Provides academic support and mentorship to members. It provides workshop and other opportunities to enhance the career and professional development of the members. Lastly, it works to increase its member's knowledge on current issues and trends in the Student Affairs profession.

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

Delta Sigma Omicron: Provides advocacy for students who are disabled on the ASU-J campus. Serve as a leader in the community and presenting opportunities of life that are available to people with disabilities.

Diamond Dolls: Serve as facilitators and a spirit organization for the ASU Baseball team.

Educating for Justice: This group is dedicated to educating and empowering the students of ASU-J to take action to end social injustice.

Everybody Doesn't: Empowers the college students to become leaders and take active roles on campus in the fight against drug and alcohol abuse.

Forensic Science Club: Promotes involvement in forensic endeavors to all students at ASU-J.

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.

Future Alumni Network: Provides networking and professional development opportunities, as well as, create an easy transition from being a student to alumni.

Graduate Association of the Business Students: Facilitates professional development for graduate students in the College of Business through mentoring and networking opportunities.

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

Guitar Guild – Advances: the art of guitar performance and pedagogy, as well as, builds a strong community of guitarists on the ASU-J campus and throughout the Northeast Arkansas region.

Habitat for Humanity: Works closely with the Jonesboro Chapter of Habitat for Humanity to build houses and raise funds for deserving families in this region of the state. Furthermore, they work to further the mission of the National Habitat for Humanity Initiatives.

Honors College Association: To provide a forum for students in honors classes to address the needs, challenges, and opportunities facing students seeking honors credit at the university.

Indian Student Association: Promotes Indian Culture and traditions at ASU-J. Membership is open to all students who want to learn and have fun.

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.

Keep A Child Alive: Raises money to help provide medicine (ARV) for children and their families in Africa with AIDS. It also raises awareness of the AIDS/HIV pandemic all over the world.

Literature Club: Focuses on involvement in literature events and journal publications.

Mixed Martial Arts Club: Teaches self defense and grappling skills in a safe, relaxed environment.

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.

Multiethnic Media Services: To unify students from different ethnicities and backgrounds with fun and exciting events/programs using entertainment mediums.

Muslim Student Association: To assist people in understanding Islam.

National Association of Black Social Workers: The NABSW is committed to enhancing the quality of life and empowering people through advocacy, human services delivery, and research. The ASU chapter focuses on education and gaining experience in the field.

National Panhellenic Council: Serves as the governing body for the NPC sororities by serving as a common ground for the NPC sorority women. Furthermore, they work to inspire Greek unity among all sorority women at ASU-J.

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

Northeast Arkansas Association for Women in Science: An organization with the objective of supporting women as they prepare for careers in science-based fields. It is a significant source of mentoring for college students, and a source for development of professionalism with our students and associated professional women.

P.E. Majors Club: Serves as the premier organization for students majoring in Physical Education and are committed to promoting healthy living through physical fitness.

Philosophy Club: Promote the examination of philosophical problems using philosophical tools via discussion, lectures, and community outreach.

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.

Piano Society: To afford students and music lovers the opportunity to listen to live piano music, perform, attend off campus recitals, and maintain practice pianos in good working order in the College of Fine Arts.

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.

Public Perceptions Style Entourage: Provide the ASU-J student body the opportunity to express themselves with through fashion, individual style, and a unique form of self expression.

Residence Hall Association: Serves as the governing body to all residence hall governance councils. RHA provides campus wide programming for students that live in on campus housing.

Rifle Team: In working with the ASU Armory/ROTC Program this groups works to teach marksmanship and to compete on at collegiate level competitions.

Rodeo Team: Provides the opportunity to learn the sport of college rodeo.

Scarlet Chess Club: Designed to introduce chess to the university at all levels of play.

Society of Neuroscience: Participants share a common interest and knowledge in Neuroscience. They share that knowledge with the Jonesboro and ASU communities respectively.

Society of Physics Students: Promotes the public interest of physics and provides academic opportunities for ASU-J students that are interested in Physics and related fields.

Sports Management Club: Provides an opportunity for academic and career success in the area of sports management.

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.

Ultimate Frisbee Association: Promotes the fellowship and fitness through athletic activity. This organization sponsors the annual Chad Lewis Memorial Ultimate Tournament.

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.

Women's Rugby Club: Brings knowledge of an internationally known sport to ASU-J.

STUDENT GOVERNMENT ASSOCIATION (SGA)

(<http://union.astate.edu>)

SGA is your liaison to the administration of Arkansas State University. This vital organization works as an advocate for student interests and concerns, becoming your voice to the University's faculty, staff, and administrators.

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

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

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.

Wolf Tracks. The university yearbook, *Wolf Tracks*, is published annually under the direction of an Associate Dean of Students. *Wolf Tracks* 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.

VETERANS ADMINISTRATION BENEFITS

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

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

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

For information regarding VA Benefits, contact the VA University Official in the Office of the Registrar at 972-2031.

The Beck PRIDE Center for America's Wounded Veterans is housed in the College of Nursing and Health Professions. For assistance in coordinating educational and rehabilitation services, please contact the Dean's Office at 972-3112 or visit our website at <http://cp.astate.edu/pride/>.

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.)

Clinical Laboratory Science	Law Enforcement
Clinical Laboratory Technician	**Law Enforcement Administration
*Crime Scene Investigation	Physical Therapist Assistant
Food Technology	Radiologic Technology

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

Nursing
—LPN to RN

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

General Studies

Associate in Science (A.S.)

Computer and Information Technology	Technical and Vocational Education Technology
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Bachelor of Arts (B.A.)

Art (emphasis in): —Art History —Studio Art	English French Geography
Chemistry (emphasis in): —Pre-Pharmacy	History Music Philosophy
Communication Studies	Political Science
Computer Science	Sociology
Criminology	Spanish Theatre
Economics (emphasis in): —Pre-Law	

Bachelor of Applied Science (B.A.S.)

Manufacturing Technology

Bachelor of Fine Arts (B.F.A.)

Art (emphasis in): —Art Education —Studio Art	Theatre (emphasis in): —Acting —Design Technology —Directing —Musical Theatre
Graphic Design	

Bachelor of Music Education (B.M.)

Composition	Instrumental Music
Guitar	Vocal Music
Keyboard	

*programs offered in cooperation with the Criminal Justice Institute of the University of Arkansas

**available only at designated off-campus sites

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

Instrumental Music	Vocal Music
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Bachelor of Science (B.S.)

Accounting	International Business
Athletic Training	Journalism (emphasis on): —Advertising —News-Editorial Journalism —Photojournalism —Public Relations
Biological Sciences (emphasis on): —Biology —Botany —Environmental Biology —Pre-professional Studies —Zoology	Management (emphasis on): —Human Resource Management
Business Administration	Marketing (emphasis on): —Logistics —Marketing Management
Business Economics	Mathematics
Chemistry (emphasis on): —Chemistry —Environmental —Pre-professional	Physics Psychology
Clinical Laboratory Science	Radio-Television (emphasis on): —Broadcast Journalism —Electronic Media Sales and Promotion —Production-New Media Option —Production-Video/Audio Option
Communication Disorders	Sport Management (emphasis on): —Business —Media
***Computer Applications	Technology (emphasis on): —Computer Aided Drafting and Design —Computer Systems —Manufacturing-Industrial —Technology Management —Technical Studies
Computer and Information Technology	Wildlife Ecology and Management
Computer Science	
Digital Media and Design	
Exercise Science	
Finance (emphasis on): —Banking —Corporate Finance —Insurance —Real Estate	
Forensic Science	
Graphic Communications	
Health Promotion	

Bachelor of Science in Agriculture (B.S.A.)

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

*programs offered in cooperation with the Criminal Justice Institute of the University of Arkansas

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Bachelor of Science in Education (B.S.E.)

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

Bachelor of Science in Engineering (B.S.Engr.)

- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

Bachelor of Science in Civil Engineering (B.S.C.E.)

- Civil Engineering

Bachelor of Science in Electrical Engineering (B.S.E.E.)

- Electrical Engineering

Bachelor of Science in Mechanical Engineering (B.S.M.E.)

- Mechanical Engineering

Bachelor of Science in Interdisciplinary Studies (B.S.I.S.)

- General Studies

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

- Nursing
- Second Degree Accelerated Program
- RN to BSN
- LPN to BSN

Bachelor of Science in Radiologic Sciences (B.S.R.S.)

- Imaging Specialist
- Diagnostic Medical Sonography
- Magnetic Resonance Imaging
- Nuclear Medicine
- Radiation Therapy

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

- Social Work

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	24 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

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**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

College of Business
pre-law

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

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

TECHNICAL CERTIFICATE PROGRAMS

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

A Certificate of Proficiency in Business Information Systems training is awarded upon completion of 30 semester hours of specified courses. The courses presented for this certificate must include ENG 1003, ENG 1013, and a minimum of 12 semester hours of Computer & Information Technology (CIT) 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 Studies Courses

Special courses of study may, upon request, be organized in any college or independent department at any level of study to meet the needs of interested groups. The middle two digits 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.

COMPRESSED VIDEO NETWORK PROGRAMS

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

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

Graduate School
P.O. Box 60
State University, AR 72467

Graduate School Computation of Grades for Admission Purposes

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

Seniors Taking Graduate Courses:

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

For undergraduate credit:

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

For graduate credit:

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

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

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

GRADUATE DEGREES OFFERED

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

Doctor of Education

Educational Leadership

Doctor of Philosophy

Environmental Sciences
Heritage Studies
Molecular Biosciences
Ph.D. Minor in Statistics

Specialist in Community College Teaching

Emphasis Areas:

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

Specialist in Education

Educational Leadership Psychology and Counseling

Master of Accountancy

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 Engineering Management

Master of Music

Master of Music Education

Master of Physical Therapy

Master of Public Administration

Master of Rehabilitation Counseling

Master of Science

Biology	Environmental Sciences
Chemistry	Exercise Science
Computer Science	Mathematics
Early Childhood Services	Vocational-Technical Administration

Master of Science in Agriculture

Agricultural Education Agriculture

Master of Science in Education

Curriculum and Instruction	School Counseling
Early Childhood Education	Special Education
Educational Leadership	Emotionally Disturbed
Educational Theory and Practice	Gifted, Talented, Creative
Middle Level Education	Instructional Specialist P-4
Reading	Instructional Specialist 4-12
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
Nurse Anesthesia

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

- 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.
- 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.
- Using mathematics.** Students should be able to use, understand and apply basic mathematical skills in practical applications.
- Using technology.** Students should be able to use appropriate technologies to locate, process and evaluate information in an effective and ethical manner.
- 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.
- 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.
- 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.
- 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.
- 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.
- Understanding interdependence.** Students should grasp how the many spheres of human knowledge are interrelated as they address problems and issues in their professional, civil, and personal lives. They should acknowledge the responsibilities of informed citizenship and the impact of their decisions and actions on others.

Assessment and Enhancements

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

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

Sequence of Courses

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

UNIVERSITY AND GENERAL EDUCATION CURRICULUM FOR BACCALAUREATE DEGREES

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773, or POSC 2103
 At least (1) HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013*
 'C' in MATH 1023 for BSE*
 45 Upper Level hours AFTER 30 Hours*
 124 Earned Credit Hours*
 18 of Last 24 Hours at ASU*
 32 Residence Hours*
 57 Hours w/Accredited Senior Institutions*
 2.0 in ASU Coursework & Major Coursework*
 2.0 Cumulative GPA*
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

First Year Making Connections Course 3
 UC 1013, Making Connections (or equivalent course)

General Requirements:

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

Mathematics 3
 MATH 1023, College Algebra, or MATH 1054,
 Precalculus Mathematics, or any higher level mathematics course for which College
 Algebra is a prerequisite.

Critical Thinking	3
One of the following courses:	
PHIL 1103, Introduction to Philosophy	
PHIL 1503, Logic and Practical Reasoning	
SCOM 1203, Oral Communication	
Understanding Global Issues	3
One of the following courses:	
ANTH 2233, Introduction to Cultural Anthropology	
GEOG 2613, Introduction to Geography	
HIST 1013, World Civilization to 1660	
HIST 1023, World Civilization since 1660	
Arts and Humanities	9
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.	
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 I	
ENG 2013, Introduction to Literature of the Western World II	
PHIL 1103, Introduction to Philosophy	
Social Sciences	9
Three of the following courses. At least one course must be selected from HIST 2763, HIST 2773, or POSC 2103.	
ECON 2313, Principles of Macroeconomics	
ECON 2333, Economic Issues and Concepts	
HIST 2763, The United States To 1876	
HIST 2773, The United States Since 1876	
POSC 1003, Introduction to Politics	
POSC 2103, Introduction to United States Government	
PSY 2013, Introduction to Psychology	
SOC 2213, Introduction to Sociology	
Science	8
Life Sciences. Select one of the following:	
BIO 2013 AND 2011, Biology of the Cell and Laboratory	
BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory*	
BIOL 1003 AND 1001, Biological Science and Laboratory	
BIOL 1033 AND 1001, Biology of Sex and Laboratory	
BIOL 1043 AND 1001, Plants and People and Laboratory	
BIOL 1063 AND 1001, People and the Environment and Laboratory	
*If BIO 2103 is selected, the student must also take EITHER	
BIO 2203 AND 2201, Human Anatomy and Physiology I and Laboratory; OR	
BIO 2233 AND 2221, Human Anatomy and Physiology II and Laboratory	
Physical Sciences. Select one of the following:	
CHEM 1013 AND 1011, General Chemistry I and Laboratory	
GEOL 1003 AND 1001, Environmental Geology and Laboratory	
PHSC 1203 AND 1201, Physical Science and Laboratory	
PHYS 1103 AND 1101, Introduction to Space Science and 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 hours to be selected either from the courses listed above, or from the additional courses specified below. Note that students who do not achieve satisfactory scores on either the Mathematics or Communications assessment will face additional restrictions on choices in this area.	
AGEC 1003, Intro to Ag Business (E)	
AGRI 2243, Feeding the Planet (E)	
CS 1114, Concepts of Programming (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 1003 AND 1001, Biological Science and Laboratory	
(Students may substitute a higher level biology course and its laboratory for which BIOL 1003 and 1001 are prerequisites, or may substitute BIO 2013 and 2011.)	
CHEM 1013 AND 1011, General Chemistry I and Laboratory	
GEOL 1003 AND 1001, Environmental Geology and Laboratory	
MATH 1023, College Algebra AND one of the following:	
PHSC 1203 AND 1201, Physical Science and Laboratory	
PHYS 1103 AND 1101, Introduction to Space Science and 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 1013, Introduction to Computers	
Total Requirements	19

**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 1003 AND 1001, Biological Science and Laboratory (Students may substitute a higher level biology course and its laboratory for which BIOL 1003 and 1001 are prerequisites, or may substitute BIO 2013 and 2011.)	
CHEM 1013 AND 1011, General Chemistry I and Laboratory	
GEOL 1003 AND 1001, Environmental Geology and Laboratory	
MATH 1023, College Algebra AND <i>one of the following</i> :	
PHSC 1203 AND 1201, Physical Science and Laboratory	
PHYS 1103 AND 1101, Introduction to Space Science and Laboratory	
PHYS 2034, University Physics I	
PHYS 2054, General Physics I	
PHYS 2073 AND 2071, Fundamental Physics and Laboratory	
Arts and Humanities	3
<i>One of the following:</i>	
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 I	
ENG 2013, Introduction to Literature of the Western World II	
PHIL 1103, Introduction to Philosophy	
Social Sciences	6
<i>Two of the following:</i>	
ANTH 2233, Introduction to Cultural Anthropology	
ECON 2313, Principles of Macroeconomics	
ECON 2333, Economic Issues and Concepts	
GEOG 2613, 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	
(Only one course in United States history may be applied toward this requirement.)	
Computer Applications/Fundamentals	3
<i>One of the following:</i>	
CS 1013, Introduction to Computers	
CIT 1503, Microcomputer Applications	
Total Requirements	25

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

**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 1003 AND 1001, Biological Science and Laboratory (Students may substitute a higher level biology course and its laboratory for which BIOL 1003 AND 1001 are prerequisites, or may substitute BIO 2013 and 2011.)	
Physical Sciences (one of the following)	
CHEM 1013 AND 1011 General Chemistry I and Laboratory	
GEOL 1003 AND 1001, Environmental Geology and Laboratory	
PHSC 1203 AND 1201, Physical Science and Laboratory	
PHYS 2053 AND 2051, General Physics I and Laboratory	
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)	
Humanities	6
Two of the following:	
ENG 2003, Introduction to Literature of the Western World I	
ENG 2013, Introduction to Literature of the Western World II	
PHIL 1103, Introduction to Philosophy	
Social Sciences	12
One of the following:	
HIST 1013, World Civilization To 1660	
HIST 1023, World Civilization Since 1660	
One of the following:	
HIST 2763, The United States To 1876	
HIST 2773, The United States Since 1876	
POSC 2103, Introduction to American Government	
Two of the following (from different areas):	
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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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.

THE HONORS COLLEGE

UNIVERSITY COLLEGE

COLLEGE OF AGRICULTURE

Technology

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

Civil Engineering
Electrical Engineering
Mechanical Engineering

COLLEGE OF FINE ARTS

Department of Art
Department of Music
Department of Theatre

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Department of Criminology, Sociology, 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 Clinical Laboratory Sciences
Department of Communication Disorders
Department of Medical Imaging and Radiation Sciences
Department of Physical Therapy
Department of Social Work
School of Nursing

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 Andrew T. Sustich, Dean; Professor Gilbert L. Fowler, Jr., Associate Dean

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 augment 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 also sponsors Undergraduate Scholars Day each spring to recognize outstanding student academic accomplishments and assists students seeking national scholarships or placement with The Washington Center internship program.

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

ALL STUDENTS INTERESTED IN HONORS COURSES MUST COMPLETE AND SUBMIT AN HONORS COLLEGE APPLICATION *EVERY SEMESTER*. The form is located on The Honors College website at <http://honors.astate.edu>. There are two versions of the form: one for incoming freshmen/transfer students and one for returning students.

1. Entering freshmen or transfer students (with fewer than eighteen (18) hours) must have an ACT score of 24 **or** above or a high school GPA of 3.50 or better to enroll in lower division Honors courses; they must also complete the Honors College application form.
2. Students transferring to Arkansas State University with eighteen (18) or more hours of work in which they have earned at least a 3.25 GPA may enroll in Honors courses after completing the Honors College application form.
3. Freshmen and transfer students who do not initially qualify may enroll in lower division courses if, after completing eighteen (18) hours, they have earned a 3.25 GPA; they must also complete The Honors College application form.
4. All other undergraduates may take either lower or upper division Honors courses, provided they have a 3.25 GPA in their university work and complete The Honors College application form.
5. 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. Graduate students will also need to complete The Honors College application form.
6. Undergraduate and graduate students who do not meet these qualifications may be allowed to take Honors courses with a strong recommendation by a faculty member and the approval of The Honors College Dean. These students will also need to complete The Honors College application form. The recommendation form can be found on the Honors website (honors.astate.edu) under the "Honors Nomination Form" tab at the top of the page.

NOTE: No students may take more than ten (10) hours of Honors coursework 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. *Please note: coursework taken during summer terms does affect overall 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
ENG 2003, Honors Introduction to Literature of the Western World I
ENG 2013, Honors Introduction to Literature of the Western World II
PHIL 1103, Honors Introduction to Philosophy

Natural Sciences and Mathematics

BIOL 1003 and 1001, Honors Biological Science and Laboratory
BIO 2013 and 2011, Honors Biology of the Cell and 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
POSC 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.

University College

Dr. Lynita Cooksey, Interim Dean

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

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

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

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

FIRST YEAR STUDIES

Director: Paula Bradberry; Instructors: Barbara Doyle, Lisa Ferrell, Polly Green, Barbara Knuckles, Margaret McClain, Vicki Stripling.

Right Start is a component of First Year Studies that serves first-year students whose ACT composite score is 18 or below or require two or more developmental courses in different disciplines regardless of ACT or high school GPA. The need for developmental course work is based on subject area ACT (or comparable SAT, COMPASS, or ASSET) scores. This comprehensive program is designed to provide those students with the needed language, reading and study skills necessary for college level work. An essential element of the program is the comprehensive advising services provided by the Making Connections instructors. Students required to participate in the Right Start program are restricted to 12 credit hours of enrollment and may not declare a major until they have successfully completed all remediation and 24 semester credit hours with a cumulative GPA of 2.00. During the first semester of enrollment, the curriculum will include appropriate developmental courses based on placement scores as required by Arkansas Law (6-9 hours), Making Connections (3 hours) and selected general education and/or electives to complete 12 credit hours. Students needing to complete additional hours for scholarship purposes may petition to take up to 15 hours.

Courses in reading, language, study skills, and career planning offered through First Year Programs are available to any ASU student who has need of such courses.

FYE SEMINARS - MAKING CONNECTIONS

First year students at ASU are required to take a Making Connections course during their first semester of enrollment. This course is an integral part of the overall first year experience at ASU and is designed to assist students to make a smooth transition to the university experience. Although there are a variety of courses offered, including numerous discipline sections and sections for undecided, and Right Start students -- all courses have a common core curriculum that includes academic performance skills, time management, research skills, problem solving and understanding university policies and expectations.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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

Student Support Services Director; Sanoya Amienyi

Upward Bound Director: Rasheda Hamilton

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

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

Upward Bound serves eligible students in grades 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>.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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.

An Associate in General Studies degree may be conferred upon students who satisfactorily complete the appropriate curriculum and meet the specific requirements for the degree. Students pursuing the Associate in General Studies degree are responsible for complying with the general academic regulations of the university as well as all other university policies and requirements.

A 2.0 cumulative grade point average is required on all course work. A student must earn at least twelve semester hours of credit after enrolling in the Associate in General Studies degree program in order to be qualified and eligible to receive the degree.

Associate in General Studies

General Education Requirements:	Sem. Hrs.
Refer to index for General Education Curriculum for Associate Degrees.....	25
Electives	Sem. Hrs.
Electives	37
Total	62

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 academic advisor, 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. In consultation with the academic advisor, students select a minimum of 18 hours of course work in three areas of emphasis. These can be any areas in which ASU offers a Major or a Minor.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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

Major in Interdisciplinary Studies Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:	Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees	46-49
Major Courses:	Sem. Hrs.
Three Academic Areas	54-63
Electives:	Sem. Hrs.
Electives	21-24
Total	124

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

BACHELOR OF SCIENCE IN DIGITAL MEDIA AND DESIGN

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

The degree will require 124 hours for graduation, including a core of 18 hours plus 24 additional hours in other designated major courses. Students are required to take courses in Communications and in Fine Arts while having the opportunity to select elective courses reflecting their special interests.

Individuals interested in the program should contact either the Department of Art or the Department of Radio-Television for additional information.

**Major in Digital Media and Design
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Major Requirements:

	Sem. Hrs.
ART 2453, Visual Thinking	3
ART 2443, Introduction to Digital Design	3
ART/RTV 3673, Seminar in Digital Media and Design	3
RTV 4881-2-3, Special Projects in Electronic Media	3
RTV 4363, Multimedia Production	3
RTV/JOUR 4373, Internet Communications.....	3
Additional hours in three areas: design, communications, critical thinking (at least one course in each area).....	24-30

Design: ART 1013, ART 2413, ART 2423, ART 3413, ART 3443, ART 3453, ART 4403, ART 4413, ART 4463

Critical Thinking: ART 3333, JOUR 4323, PHIL 3723, RTV/JOUR 3363, RTV 4313, RTV 4423, RTV/JOUR 4073

Communications: JOUR 3043, JOUR 3073, JOUR 3673, GCOM 1813, GCOM 4613, RTV/JOUR 1003, RTV 2024, RTV 3013, RTV 3024, RTV 3034, RTV 3323, RTV 4353, RTV 4443, CS 1013

Electives:

32-38
Total 124

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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:

	Sem. Hrs.
BCOM 3573 Managerial Communication	3
MGMT 3153 Organizational Behavior	3
MGMT 3613 Leadership	3
SCOM 3203 Business and Professional Communication Or	
UC 1002 Introduction to Leadership Development.....	2
UC 3012 Seminar in Leadership Development	2
UC 4803 Special Problems in Leadership Development.....	3

Electives: (Choose 2 of the following).....

PSY 3303 Motivation	3
PSY 4743 Organizational Psychology	3
SCOM 2243 Principles of Argumentation	3
SCOM 3243 Principles of Persuasion	3
SCOM 4203 Small Group Communication	3
SCOM 4243 Interpersonal Communication	3
SCOM 4253 Intercultural Communication	3
SCOM 4273 Nonverbal Communication	3

TOTAL 22

NOTE: Any student who completes the necessary courses may declare this minor and have it appear on the transcript. Each Department which offers a course included in the minor will be determined for its own majors whether courses taken for their minor can also count toward their major.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

College of Agriculture

Professor Gregory C. Phillips, Dean

Professors Armah, Cramer, Greenwalt, Hood, W. Humphrey, Kennedy, Savary, Teague, Weathers; Associate Professors Agnew, Chaudhury, Pittcock, Shumway; Assistant Professors Ahn, Green, K. Humphrey; Instructors Coleman, Fenner, Watson

MISSION STATEMENT

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

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

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

All within environmentally sound and sustainable systems.

COLLEGE OF AGRICULTURE CORE COURSES

	Sem. Hrs.
AGEC 1003, Introduction to Agricultural Business	3
AGRI 1213, Making Connections in Agriculture	3
AGRI 3233, Applied Agricultural Statistics OR ECON 2113, Business Statistics I OR STAT 3233, Applied Statistics.....	3
AGRI 3723, Agricultural Connections: Technical Interpretation and Professional Applications.....	3
ANSC 1613, Introduction to Animal Science	3
PSSC 1303, Introduction to Plant Science.....	3
At least 6 credits from the following list:	6
AGED (any 3 cr.)	
AGRI 4223, Agriculture and the Environment	
PSSC 2813, Soils	
	24

Major in Agricultural Business Bachelor of Science in Agriculture

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 **OR** POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

	Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees.....	46-49
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)	24
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Major Requirements:

	Sem. Hrs.
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting.....	3
AGEC 4033, Agricultural Law OR LAW 2023, Legal Environment of Business	3
AGEC 4053, Agricultural Finance	3
AGEC 4073, Agricultural Business Management.....	3
AGEC 4083, Agricultural Policy and Current Issues	3
CIT 1503, Microcomputer Applications	3
ECON 2323, Principles of Microeconomics	3
MGMT 3153, Organizational Behavior OR , MGMT 3123 Principles of Management	3
MKTG 3013, Marketing	3
	30

Emphasis Area:

Student may select from one of the following career specialty areas or consult an adviser and design a program to meet the student's particular career goals..... 18

**The student considering graduate school is strongly encouraged to take MATH 2143, Business Calculus or any other calculus course.

Agricultural Communications:

	Sem. Hrs.
JOUR 2013, News Reporting	3
JOUR 3003, Feature and Magazine Article Writing	3
JOUR 3023, Advertising and the Print Media	3
Electives in Communications.....	9
	18

Agricultural Economics:

	Sem. Hrs.
CIT 3523, Operations Management	3
ECON 3313, Microeconomic Analysis.....	3
ECON 3353, Macroeconomic Analysis.....	3
MATH 2143 Business Calculus	3
Electives in MATH, ECON, MGMT, AGECE, etc.....	6
	18

Agricultural Finance:

	Sem. Hrs.
AGEC 4063, Financial Analysis of Agribusiness	3
ECON 3323, Money and Banking	3
FIN 3713, Business Finance	3
Electives in AGECE, FIN, ECON, etc.	9
	18

Agricultural Marketing and Management:

	Sem. Hrs.
AGEC 3053, Commodity Futures Markets	3
AGEC 4023, International Commodity Marketing.....	3
MKTG 3043, Retailing OR AGECE 3063, Agricultural Sales and Services	3
Electives in AGECE, MKTG, MGMT, etc.....	9
	18

Farm Management:

	Sem. Hrs.
AGEC 3013, Computerized Ag Records OR ACCT 4013, Tax Accounting	3
AGEC 3053, Commodity Futures Markets	3
AGEC 4013, Farm Appraisal	3
Electives in PSSC, ANSC, AGEN, etc.	9
	18

Electives:

	8-11
Total	129

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Agricultural Education
Bachelor of Science in Agriculture**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

Specific General Education Requirements:

	Sem. Hrs.
BIOL 1003, Biological Science AND BIOL 1001, Biological Science Lab	4
CHEM 1013, General Chemistry I AND CHEM 1011, General Chemistry I Lab	4
ECON 2313, Principles of Macroeconomics OR ECON 2333 Economic Issues & Concepts	3
ENG 1003, Composition I	3
ENG 1013, Composition II	3
ENG 2003, Introduction to Literature of the Western World I	3
ENG 2013, Introduction to Literature of the Western World II	3
HIST 2763 OR 2773, The United States To OR Since 1876 OR POSC 2103, Intro to US Government	3
HIST 1013 OR 1023, World Civilization To OR Since 1660	3
MATH 1023, College Algebra	3
MUS 2503 OR THEA 2503 OR ART 2503 (only 3 hours required for education majors)	3
PE 1002, Concepts of Fitness	2
PHIL 1103, Intro to Philosophy, OR PHIL 1503, Logic & Practical Reasoning, OR SCOM 1203, Oral Communication	3
Enhancements	3-6
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43-46	

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:

	Sem. Hrs.
AGEC 1003, Introduction to Agriculture Business	3
AGED Elective	3
AGRI 3711, Seminar in Agriculture Information Literacy	1
AGRI 3721, Seminar in Agriculture Interpretation of Research	1
AGRI 4721, Seminar in Agriculture Professional Presentations	1
AGRI 3233, Applied Agricultural Statistics OR ECON 2113, Business Statistics I, OR STAT 3233, Applied Statistics	3
ANSC 1613, Introduction to Animal Science	3
PSSC 1303, Introduction to Plant Science	3
PSSC 2813, Soils	3
<hr/>	
21	

AGED Major:

Applied Technical Agriculture Courses:

	Sem. Hrs.
AGEC 4073, Agriculture Business Management	3
ANSC 1621, Introduction to Animal Science Laboratory	1
ANSC 3613, Nutritional management of Domestic Animals	3
PSSC 2811, Soils Lab	1
PSY 3703, Educational Psychology	3
Agricultural Elective (Must be upper level ag course)	3
<hr/>	
14	

AGED Major:

Required Courses:

	Sem. Hrs.
CHEM 1033 AND Introduction to Organic and Biochemistry and Laboratory	4
BIO 1301 AND 1303, Principles of Zoology and Laboratory OR	4
BIO 1501 AND 1503, Biology of Plants and laboratory	4
<hr/>	
8	

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

AGED Major:

Required Professional Education Courses:

	Sem. Hrs.
AGED 1403, Basic Agricultural Mechanics	3
AGED 1411, Introduction to Agricultural and Extension Education	1
AGED 4433, Methods of Teaching Agricultural Mechanics	3
AGED 4462, Agricultural Youth Organizations	2
PSY 3703, Educational Psychology (Counted in Gen Ed)	3
SCED 2514, Introduction to Secondary Teaching	4
VOED 4503, Foundations of Adult Education in Vocational Education	3

The following exams are required:

Praxis I - Required for admission into Teacher Education Program and for all Emphasis Areas	
Praxis II - Required for graduation for the Teaching Emphasis Option only	16
<hr/>	
TOTAL for all Ag Ed majors in any emphasis areas	106
PLUS 24 from one of the emphasis areas below	24
<hr/>	
Total	127-130

Emphasis: Teaching

	Sem. Hrs.
EDAG 4623, Special methods for Teaching Agricultural Education	3
TIAG 4826, Teaching Internship in the Secondary School	12
Three of the following courses:	9
AGED 2433, Principles of Agricultural Power: Electricity and Internal Combustion Engines	
AGED 2453, Application of Welding Technologies to Agriculture	
AGED 3443, Agricultural Equipment Hydraulic Systems	
AGED 3453, Agricultural Structural Systems	
The following exams are required:	
Praxis II - Required for graduation for the Agricultural Education Program	
<hr/>	
Total in option	24

Emphasis: Agricultural Mechanics:

	Sem. Hrs.
AGED 2433, Principles of agricultural Power: Electricity & Internal Combustion Engines	3
AGED 2453, Application of Welding Technologies to Agriculture	3
AGED 3443, Agricultural Equipment Hydraulic	3
AGED 3453, Agricultural Structural Systems	3
Electives in Engineering or approved area	12
<hr/>	
24	

Emphasis: Agricultural Communications

	Sem. Hrs.
AGRI 4201-6, Internship in Agriculture	6
ENG 3043, Technical Writing	3
JOUR 2003, News Writing	3
JOUR 3023, Advertising Principles	3
RTV 2024, Audio Production	3
RTV 3323, TV Workshop for Non-Majors	3
Elective in Communications (JOUR 2023 or 3013 recommended)	3
<hr/>	
Total in option	24

Total 127-130

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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Animal Science
Bachelor of Science in Agriculture**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

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

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

Critical Thinking:

Must select SCOM 1203, Oral Communication as their choice in this category

Social Sciences:

Must take either ECON 2313, Principles of Macroeconomics **or** ECON 2333, Economic issues and Concepts as one of their choices in this category

Science

Life Sciences:

Must select from one of the following:

BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory **OR**

BIO 4104, Microbiology (Pre-Vet majors)

In order to receive General Education credit for either of these microbiology courses, students with this major must take BIO 1303 **AND** 1301, Biology of Animals and Laboratory. (Note that the credit hours for the Biology of Animal courses will **NOT** count toward the total General Education hours.)

Physical Sciences:

Must select CHEM 1013 **AND** 1011, General Chemistry I and Laboratory as their choice in this category.

Enhancements:

Must select ENG 3043, Technical Writing as their choice in this category. Note that the students who do not achieve satisfactory scores on the General Education Mathematics assessment will face additional restrictions on choices in this area and may not be able to count this course among their General Education Credit hours.

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

College of Agriculture Core Courses:

Sem. Hrs.

(see beginning of Agriculture section) 24

Major Requirements:

Sem. Hrs.

CHEM 1033 AND 1031, Introduction to Organic and Biochemistry and Laboratory OR	
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
BIO 4104*, Microbiology OR BIO 2103 and 2101, Microbiology and Laboratory	4
ANSC 1821, Introduction to Animal Science Laboratory	1
ANSC 3613, Nutritional Management of Domestic Animals	3
ANSC 3633, Veterinary Anatomy and Physiology	3
AGRI 2213, Genetic Improvement of Plants and Animals OR BIO 3013, Genetics	3

*Required for Pre-Veterinary Emphasis

18

Emphasis Area:

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

Animal Science:	Sem. Hrs.
AGEC 4673, Agricultural Business Management	3
ANSC 2703, Principles of Poultry Production	3
ANSC 4663, Principles of Breeding	3
ANSC 4673, Digestive Physiology and Nutrition of Animals	3
ANSC 4683, Theriogenology	3
	<hr/>
	15
Pre-veterinary:	Sem. Hrs.
ANSC 4673, Digestive Physiology and Nutrition of Animals	3
ANSC 4683, Theriogenology	3
CHEM 3103, Organic Chemistry I	3
CHEM 3101, Organic I Laboratory	1
MATH 1033, Plane Trigonometry OR MATH 1054, Precalculus	3-4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
CHEM 4243, Biochemistry	3
	<hr/>
	24-25
Poultry Industry Management:	Sem. Hrs.
ANSC 2703, Principles of Poultry Production	3
ANSC 3703, Poultry Flock Management OR ANSC 4693, Integrated Poultry Production	3
AGRI 4203, Internships in Agriculture (Min. 2.5 GPA required)	3
AGEC 4673, Agricultural Business Management	3
	<hr/>
	12
Food Science and Technology:	Sem. Hrs.
FDST 2203, Introduction to Food Science	3
FDST 2223, Principles of Food Processing	3
Choose two of the following:	6
FDST 2213, Food Chemistry	
FDST 2503, Food Safety and Sanitation	
FDST 3203, Food Quality Assurance	
FDST 4213, Food and Health	
ANSC 3653, Meat Science and Processing	
	<hr/>
	12
Upper Level Support	10-18
Free Electives	6-11
	<hr/>
Total	129

**Major in Agricultural Science
Bachelor of Science in Agriculture**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

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

Specific General Education Requirements:

Students with this major must take the following:

CHEM 1013 **AND** 1011, General Chemistry I and Laboratory

ECON 2313, Principles of Macroeconomics

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.

College of Agriculture Core Courses:

Sem. Hrs.

(see beginning of Agriculture section) 24

Major Requirements:

Sem. Hrs.

AGEC Electives 12

AGED Electives 12

ANSC Electives 12

PSSC Electives 12

48

Electives

8-11

129

**Major in Plant Science
Bachelor of Science in Agriculture**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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 1003 **AND** 1001, Biological Sciences and Laboratory

CHEM 1013 **AND** 1011, General Chemistry I and Laboratory

ECON 2313, Principles of Macroeconomics

ENG 3043, Technical Writing

SCOM 1203, Oral Communication

If another enhancement course is required due to unsatisfactory score on the Mathematics

or Communication assessments, then ENG 3043 **OR** JOUR 2003 **OR** BCOM 2563

must be taken as a core requirement.

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.

College of Agriculture Core Courses:

Sem. Hrs.

(see beginning of Agriculture section) 24

Major Requirements:

Sem. Hrs.

AGEC 3063, Computerized Agricultural Records **OR** CIT 1503, Microcomputer Applications 1

AGRI 2213, Genetic Improvement of Plants and Animals 3

BIO 1503 **AND** 1501, Biology of Plants and Laboratory 4

BIO 3542, Plant Pathology 2

BIO 3303 **AND** 3301, General Entomology and Laboratory 4

PSSC 3313, Plant Disease Management 3

PSSC 2811, Soils Laboratory 1

PSSC 1301, Plant Science Laboratory 1

PSSC 4313, Plant Growth and Development 3

22

Sem. Hrs.

36-39

Emphasis Area

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

Agronomy:

Sem. Hrs.

CHEM 1033 **AND** 10311, Introduction to Organic and Biochemistry and Laboratory 4

PSSC 3323, Weeds and Weed Control 3

PSSC 4813, Soil Fertility 3

PSSC or HORT Electives or related area 15

25

Science/Research:

Sem. Hrs.

CHEM 1023 **AND** 1021, General Chemistry II and Laboratory 4

CHEM 3103 **AND** 3101, Organic I and Laboratory 4

CHEM 3113 **AND** 3111, Organic II and Laboratory 4

CHEM 4243, Biochemistry 3

MATH 2204, Calculus I, **OR** MATH 2194, Survey of Calculus **OR**

AGRI 4233, Experimental Agricultural Statistics 3-4

PSSC or HORT Electives or related area 6-7

24-26

Environmental Horticulture

Sem. Hrs.

CHEM 1033 **AND** 1031, Introduction to Organic and Biochemistry and Laboratory 4

HORT 3293, Landscape Plant Materials 3

HORT 2253, Fundamentals of Horticulture 3

HORT Electives or related area 15

25

Electives

8-13

Total 129

Minor in Agricultural Business

	Sem. Hrs.
Agricultural Business Electives	6
Agricultural Business, Upper-level courses	12
Total	18

Minor in Agricultural Mechanics

	Sem. Hrs.
Agricultural Mechanics Courses, Lower Level (AGED Prefix).....	6
Agricultural Mechanics Courses, Upper Level (AGED Prefix).....	12
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

	Sem. Hrs.
Agronomy Electives.....	6
Agronomy, Upper-level Courses.....	12
Total	18

Minor in Animal Science

	Sem. Hrs.
Animal Science Electives	6
Animal Science, Upper-level courses.....	12
Total	18

Minor in Plant Science

	Sem. Hrs.
Plant Science Electives	6
Plant Science, Upper-level courses	12
Total	18

Minor in Horticulture

	Sem. Hrs.
Horticulture Electives.....	6
Horticulture, Upper-level courses	12
Total	18

Minor in Food Science and Technology

	Sem. Hrs.
ANSC 3653, Meat Science and Processing.....	3
FDST 2203, Introduction to Food Science	3
FDST 2213, Food Chemistry.....	3
FDST 2223, Principles of Food Processing.....	3
FDST 3203, Food Quality Assurance	3
FDST 4213, Food and Health.....	3
Total	18

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:	Sem. Hrs.
Refer to index for General Education Curriculum for Associate Degrees	19
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:	Sem. Hrs.
FDST 2203, Introduction to Food Science	3
FDST 2213, Food Chemistry.....	3
FDST 2223, Principles of Food Processing.....	3
FDST 2503 Food Safety and Sanitation.....	3
FDST 3203, Food Quality Assurance	3
FDST 330V, Practicum	1-3
Total	18

Required Support:	Sem. Hrs.
AGRI 3233 Agriculture Statistics	3
BIO 2103 AND 2101, Microbiology and Laboratory	4
BCOM 2563, Business Communication	3
CHEM 1013 AND 1011 Gen Chem 1 and Laboratory.....	4
ECON 2313, Principles of Macroeconomics	3
MGMT 3123, Principles of Management	3
NRS 2203, Basic Human Nutrition	3
Total	23

Electives	9
Total	69

Technology Program

Charles Coleman, Director

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.

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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Major in Technology Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level AFTER 30 HOURS *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees 46

Specific General Education Recommendations:

The following General Education Courses are recommended for this major:

ECON 2313, Principles of Macroeconomics

ENG 3043, Technical Writing OR ENG 3013, Practical Writing

MATH 1033, Plane Trigonometry

PHYS 2054, General Physics I

SCOM 1203, Oral Communication

Core Requirements for Degree:

MGMT 3153, Organizational Management OR Sociology OR Psychology Elective	3
TECH 1413, Engineering Graphics OR CIT 3013 Management Information Systems	3
TECH 2863, Principles of Technology	3
TECH 2883, Introduction to Quality Control OR TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
UC 1013, Making Connections	3
TOTAL	24

Emphasis Area: (select one of the five options):

Computer Aided Drafting and Design:

Sem. Hrs.

Select Seven of the following	21
TECH 1423, Beginning Solid Modeling CADKEY I	
TECH 1803, Computer Aided Drafting and Design I	
TECH 2453, Technology Design - Solid Works I	
TECH 2803, Computer Aided Drafting and Design II	
TECH 3413, AutoCAD / Inventor	
TECH 3423, Intermediate Solid Modeling CADKEY II	
TECH 3433, AutoCAD 3-D Modeling	
TECH 3453, Advanced Technology Design - Solid Works II	
TECH 3473, Structural Drafting	
TECH 3853, Computer Aided Manufacturing (CAM)	
TECH 3873, Tool Design	
TECH 4843, Labor Relations	3
TECH 4883, Work Center Management	3
Technology Electives	6
TOTAL	33

Computer Systems:

Sem. Hrs.

TECH 1013, Networking Essentials - Cisco I	3
TECH 1023, Router Technologies - Cisco II	3
TECH 2033, Advanced Routing and Switching - Cisco III	3
TECH 2043, WAN Technologies and Design - Cisco IV	3
TECH 2053, Building Scalable Networks - Cisco V	3
TECH 2063, Remote Access Networks - Cisco VI	3
TECH 4843, Labor Relations	3
TECH 4883, Work Center Management	3
Technology Electives	9
TOTAL	33

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Manufacturing - Industrial:	Sem. Hrs.
TECH 3803, Electrical Systems	3
TECH 3823, Mechanics I	3
TECH 3833, Mechanics II	3
TECH 3843, Manufacturing Materials & Processes	3
TECH 3873, Tool Design OR TECH 3883, Machine Design	3
TECH 3813, Programmable Logic Control	3
TECH 4873, Motion and Time Study	3
Technology Electives	12

TOTAL 33

Technology Management:	Sem. Hrs.
TECH 3713, Fiscal Aspects	3
TECH 3753, Legal Aspects	3
TECH 4843, Labor Relations	3
Accounting or Management Electives	3-6
Management Electives	6-9
Technology Electives	15-9

TOTAL 33

Technical Studies:	Sem. Hrs.
TECH 4843, Labor Relations	3
TECH 4883, Work Center Management	3
Technical Electives	9
Technology Electives	18

TOTAL 33

Electives:	Sem. Hrs.
Technical Electives	21

TOTAL 124

**Major in Technology
Associate in Science**

General Education Requirements:	Sem. Hrs.
Refer to index for General Education Curriculum for Associate in Science Degree	35

Specific General Education Recommendations:

The following General Education Courses are recommended for this major:
 ECON 2313, Principles of Macroeconomics
 MATH 1033, Plane Trigonometry
 PHYS 2054, General Physics I
 SCOM 1203, Oral Communication

Requirements for Degree:	Sem. Hrs.
TECH 1413, Engineering Graphics	3
TECH 2863, Principles of Technology	3
TECH 2883, Introduction to Quality Control OR TECH 3773, Statistics	3
Technology Electives	9

18

Electives:	Sem. Hrs.
Technical Electives	9

Total 62

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:	Sem. Hrs.
ENG 1003 and 1013, Composition I and II	6
MATH 1023, College Algebra	3
HIST 2763 OR 2773, The United States To OR Since 1876	3
Arts and Humanities (from General Education Curriculum)	2-3
Electives (from General Education Curriculum)	3
Natural Science (from General Education Curriculum)	4
Physical Education (1 hour activity physical education)	1
Social Science (from General Education Curriculum)	3

25-26

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.

Professional Requirements:	Sem. Hrs.
VOED 1503, Instructional Planning and Materials in Technical and Vocational Education	3
VOED 1513, Methods of Technical and Vocational Teaching	3
VOED 1533, Student Services in Technical and Vocational Education	3
VOED 1543, Evaluation of Learning	3
VOED 1553, Management of Technical and Vocational Programs	3
VOED 2503, Program Development	3
VOED 2523, The Two-Year College in America	3
VOED 2533, History and Philosophy of Technical and Vocational Education	3

24

Technical Requirements:	Sem. Hrs.
	15

The fifteen hours in the technical requirement may be awarded for substitution of professional training, preparation, or work experience in teaching area, verified by the appropriate license, diploma, certificate, transcript, letter or National Occupation 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 or equivalent evidence of expertise (1-15 hours)

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 Experiential Learning in Technical and Vocational Education. 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 areas.

Total 64-65

College of Business

Professor Len Frey, Dean; Professor C. William Roe, Associate Dean; Associate Professor Jim Washam, 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 skills, and experiential learning. Emphasis is placed on undergraduate education, while meeting the needs of the business community through select graduate degrees and professional workforce development programs.

The college is committed to enhancing professional development of faculty and staff through support of applied research, instructional development, and professional growth activities in a collegial environment. Professional development is also provided to students through student organizations, honor societies, and action-based learning.

The Mission is strengthened through ongoing review and continuous improvement of all programs and activities.

Because knowledge of technology is essential to success in business, the college provides three modern computer labs for student use. To broaden their educational experiences, students may become involved in auxiliary and outreach activities through the Transportation Management Program, Small Business Development Center, Economic Education Program, and seminars.

The College of Business is comprised of four academic departments: Accounting, Computer and Information Technology, Economics and Finance; 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), 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 and economics 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 majoring in economics will be awarded the Bachelor of Arts 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 options they select.

All candidates for baccalaureate degrees in the College of Business are required to take the following College of Business core courses.

College of Business Core Courses (grade of "C" or better required)	Sem. Hrs.
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
BCOM 2563, Business Communication	3
CIT 3013, Management Information Systems	3
CIT 3523, Operations Management	3
+ECON 2113, Business Statistics I	3
+ECON 2313, Principles of Macroeconomics*	0 or 3
+ECON 2323, Principles of Microeconomics	3
FIN 3713, Business Finance	3
LAW 2023, Legal Environment of Business	3
MGMT 3153, Organizational Behavior	3
MGMT 4813, Strategic Management	3
MKTG 3013, Marketing	3
SCOM 1203, Oral Communication*	0 or 3
(Except International Business Studies)	

* Required ONLY if not taken to satisfy a part of the General Education Requirement.
 (+) Must be completed before enrolling in junior/senior level classes.

Minor in Electronic Commerce

	Sem. Hrs.
Take all of the following:	
CIT 3353, Web Development OR JOUR 4373, Internet Communications	3
CIT 3403, Database Management	3
CIT 4453, Global E-Commerce	3
MKTG 3013, Marketing OR MKTG 3163, Supply Chain Management	3
	12
Take two of the following:	6
BSYS 2533, Internet, Intranet, & E-Mail Application	
CIT 2033, Visual BASIC	
CIT 4883, Internship (in area in E-Commerce) or MKTG 4283, Internship	
JOUR 3673, Digital Design	
	18
Total Hours	

Associate Degree

All candidates for an Associate Degree in the College of Business must satisfy the University Requirements for all Associate Degrees (refer to index for page reference), as well as the specific degree requirements listed under the CIT major.

COURSE SEQUENCE FOR FRESHMEN AND SOPHOMORES

SPECIAL MAJOR NOTES:

- Accounting majors (a) should not take accounting courses during their freshman year and (b) should consult with their advisors concerning CPA exam requirements.
- Business Education majors must take both POSC 2103 and HIST 2763 or HIST 2773.
- International Business majors should take their foreign language during their freshman and sophomore years.
- All Business majors must take at least one of the following:
SOC 2213, Principles of Sociology
ANTH 2233, Introduction to Cultural Anthropology
- All Business majors must satisfy the computer proficiency requirement during their Freshman or Sophomore years, preferably during the freshman year.
- All Business majors must take SCOM 1203, Oral Communication.

ENROLLMENT IN UPPER-LEVEL COURSES IN BUSINESS

The College of Business offers upper-level courses (junior/senior level) in a variety of professional fields of business. To be eligible to enroll in any upper-level courses, any business major must first have the proper prerequisites and satisfy the following enrollment requirements: (1) complete 54 semester hours of General Education requirements and all lower-level College of Business courses except for BCOM 2563 and LAW 2023; (2) complete MATH 2143; (3) complete and file a degree plan which is done in consultation with the student's 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Department of Accounting

Professor Tina Quinn, Chair; Professors Dancer, Moore; Associate Professors Robertson; Assistant Professors Pae; Instructors Carr, Jobe, Powell, Vanhorn.

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.

Please visit http://business.astate.edu/Departments/Accounting/majors_accounting.htm.

Major in Accounting Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses

*C in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level AFTER 30 HOURS *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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).....36-42

Major Requirements: (grade of "C" or better required)

	Sem. Hrs.
ACCT 3003 AND 3013, Intermediate Accounting I and II	6
ACCT 3053, Cost Accounting with a Managerial Emphasis	3
ACCT 4013, Tax Accounting I	3
ACCT 4023, Advanced Accounting and International Issues	3
ACCT 4033, Accounting Information Systems	3
ACCT 4053, Auditing I	3
LAW 4043, Law of Business Organizations	3
Accounting Elective (ACCT 430V, Special Problems in Accounting and ACCT 4783, Internship in Accounting MAY NOT be used to satisfy the Accounting Elective)	3
	27

Electives:

8-17
Total 126

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Minor in Accounting

	Sem. Hrs.
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
ACCT 3003, Intermediate Accounting I	3
ACCT 3013, Intermediate Accounting II	3
ECON 2333, Economics Issues and Concepts, or ECON 2323, Principles of Microeconomics	3
Junior-Senior Accounting Electives	6
Total	21

Department of Computer and Information Technology

Professor Tina Quinn, Chair; Professors Jones, Moeeni, Replogle, Ruby, Seydel; Associate Professors Fish, Ruby, Segall, Syamil, Zhang; Assistant Professor Sinclair; Senior Lecturer Torres; Adjunct Instructor McGinnis, McElhaney, Shanlever.

The Department of Computer and Information Technology (CIT) 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 offered 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, ecommerce, project management, supply chain technologies (including operations management, automatic data capture and simulation modeling), information technology (IT) planning and strategy, and related areas.

COMPUTER & INFORMATION TECHNOLOGY PROGRAM: The Bachelors of Science in Computer & Information Technology is designed to prepare students for careers as IT professionals. Our graduates hold positions as network administrators, applications programmers, website developers, database architects, operations schedulers, and technical support specialists, to name a few. Of particular interest to potential students who already have practical IT experience should be the alignment of many CIT courses with industry certifications. Consequently, students can simultaneously complete their major requirements and prepare for industry certification exams. This further makes it possible for students to receive course credit for certifications already earned.

BUSINESS TECHNOLOGY PROGRAM: In conjunction with the College of Education, the CIT department offers the Bachelor of Science in Education concentration in Business Technology. This 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 intended to provide high school graduates with entry level job skills, as well as the economic competencies those graduates will need. Emphasis is given, through this department and the College of Education, to the methods by which this information can be effectively imparted. For satisfactory completion of this program, a student must fulfill all requirements as established by the university, the College of Business, the College of Education, and this department. Vocational certification is available and the CIT department is also approved by the State of Arkansas for teacher training.

OTHER PROGRAMS: In addition to offering the four-year programs described above, the CIT department offers an Associate in Science in Computer & Information Technology, a Certificate in Business Information Systems, and a minor eCommerce. These programs are intended to provide the student with several options that will complement other coursework and provide stepping stones to four-year degrees. These can be completed in relatively little time.

Please visit <http://business.astate.edu/CIT> for further information about the CIT Department, its degree programs, classes, and more.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Major in Computer and Information Technology Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses
'C' in ENG 1003 and ENG 1013 *
BSE must have 'C' in MATH 1023
45 Upper Level **AFTER 30 HOURS** *
124 Earned Credit Hours *
18 of the Last 24 Hours at ASU *
32 Residence Hours *
57 Hours with Accredited Senior Institutions *
2.00 in ASU Coursework and Major Coursework *
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to Index for General Education Curriculum for Baccalaureate Degrees	Sem. Hrs. 46-49
(MUST complete Math 2143, Business Calculus with "C" or better)	
(MUST complete ANTH 2223, Anthropology or SOC 2213, Sociology)	

College of Business Core Courses:

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

	Sem. Hrs.
CIT 2033, Visual BASIC Programming	3
CIT 2523, Telecommunications and Networking Essentials	3
CIT 3033, Advanced Visual BASIC Programming	3
CIT 3403, Database Management	3
CIT 3413, Advanced Database Management	3
CIT 3603, Systems Analysis and Design	3
CIT 3623, LAN Administration	3
CIT 4103, Advanced LAN Administration	3
CIT 4453, Technologies for Global E-Commerce	3
CIT 4653, Automatic Data Capture	3
CIT 4853, IT Project Management	3

Electives:

	Sem. Hrs.
	2-11
Total	126

Major in Computer and Information Technology Associate of Science

General Education Requirements:

Refer to index for General Education Curriculum for Associate in Science	Sem. Hrs. 35
Specific General Education Requirements	
ECON 2313 - Principles of Macroeconomics	
ANTH 2233 - Introduction to Cultural Anthropology	

Major Requirements:

	Sem. Hrs.
ACCT 2133, Introduction to Managerial Accounting	3
CIT 1503, Microcomputer Applications (see note below)	3
CIT 2033, Visual Basic Programming	3
CIT 2523, Telecommunications and Networking Essentials	3
CIT 3013, Management Information Systems	3
CIT 3403, Database Management	3
MIS/CS, Electives (excluding CS 1013)	6
SCOM 1203, Oral Communications OR BCOM 2563, Business Communication	3
	27
Total	62

(Note: CIT 1503 requirement can be satisfied by successful completion of a similar course or by passing the College of Business computer proficiency exam)

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Minor in Computer and Information Technology

	Sem. Hrs.
CIT 2xx3/CS 2xx3, Programming Course	3
CIT 3403, Database Management	3
CIT 3013, Management Information Systems	3
CIT 2523, Telecommunications Management	3
CIT 3603, Systems Analysis and Design	3
CIT 3623, LAN Administration	3
Total	18

**Major in Business Technology
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- C in ENG 1003 and ENG 1013 *
- BSE must have C in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:
- HIST 2763 or 2773, The United States To or Since 1876, as one of the Social Sciences options
- MATH 1023, College Algebra
- POSC 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.
(see beginning of Business section).....	39-42

Major Requirements:

	Sem. Hrs.
BUED 4503, Business Technology Methods	3
BUED 4513, Directed Field Experiences	3
CIT 2543, Keyboarding for Professionals	3
CIT 3533, Microcomputer Applications II	3
CIT 4453, Global ECommerce	3
CIT 4533, Word Processing II	3
Total	18

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:*

	Sem. Hrs.
** EDBU 4533, Methods and Materials in the Teaching of Business Technology	3
* PSY 3703, Educational Psychology	3
SCED 2514, Introduction to Secondary Teaching	4
** SCED 3515, Performance Based Inst. Design (junior year and before EDBU 4533, Methods and Materials in Teaching of Business Technology	5
** SCED 4713, Educational Measurement with Computer Applications	3
** SE 3643, The Exceptional Student in the Regular Classroom	3
** TIBU 4826, Student Teaching in the Secondary School.....	12
Total	33

* 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 elective	1
Total	4
Total	140-146

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 2033, Introduction to Financial Accounting	3
Business Electives	6
Information technology component	
CIT 2533, Internets, Intranets, and E-Mail Applications for Business.....	3
CIT 1503, Microcomputer Applications.....	3
CIT 2033, Visual BASIC Programming.....	3
CIT 3403, Principles of Database Management.....	3
Total	30

Department of Economics and Finance

Professor Jeffrey Pittman, Chair; Professors Brown, Crawford, Dale, Kesselring, Latanich, Marburger, Taylor; Assistant Professors Guha, Kern, Robertson. Instructors Lewis.

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

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level AFTER 30 HOURS *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

College of Business Core Courses:

(see beginning of Business section)	Sem. Hrs. 39-42
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Major Requirements:

FIN 3763, Financial Institutions and Markets	Sem. Hrs. 3
FIN 4723, Investments	3
FIN 4753, Capital Management	3
9	

Emphasis Area: (Select one of the following four Emphasis Areas):

Banking:

ACCT 3003, Intermediate Accounting I	Sem. Hrs. 3
FIN 3773, Financial Risk, Management	3
FIN 4743, Managerial Finance	3
FIN 4763, Bank Management	3
FIN 4773, Advanced Bank Management	3
Select One of the Following	3
ACCT 3013, Intermediate Accounting II	
ECON 3323, Money and Banking	
ECON 4343, Managerial Economics	
FIN 3813, International Financial Management & Banking	
MKTG 3023, Applied Research	
REI 4423, Real Estate Finance	
18	

Real Estate:

REI 3413, Real Estate Practice	Sem. Hrs. 3
REI 3513, Risk and Insurance	3
REI 4423, Real Estate Finance	3
REI 4433, Real Estate Appraising	3
Select One of the Following	3
MKTG 3093, Professional Selling and Sales Management	
REI 4443, Real Estate Appraising and Analysis of Income Property	
ACCT 4013, Tax Accounting I	
REI 459V, Special Problems in Real Estate	
REI 4603, Internship in Real Estate and Insurance	
15	

Insurance:

REI 3513, Risk and Insurance	Sem. Hrs. 3
REI 3413, Real Estate Practice	3
REI 4513, Property and Liability Insurance	3
REI 4543, Life Insurance	3
REI 459V, Special Problems in Real Estate and Insurance	
OR REI 4603, Internship in Real Estate and Insurance	3
15	

Corporate Finance:

ACCT 3053, Cost Accounting with a Managerial Emphasis OR ACCT 3003, Intermediate Accounting I	Sem. Hrs. 3
FIN 4743, Managerial Finance	3
Select Three of the Following	9
ACCT 4013, Tax Accounting I	
ECON 4343, Managerial Economics	
ECON 3113, Business Statistics II	
ECON 3323, Money and Banking	
FIN 3773, Financial Risk Management	
FIN 4763, Bank Management	
FIN 3813, International Financial Management and Banking	
IB 4103, International Trade	
REI 3513, Risk and Insurance	
REI 4423, Real Estate Finance	
15	

Electives:

	Sem. Hrs. 19-13
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Total	126
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For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Minor in Real Estate and Insurance

	Sem. Hrs.
ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2133, Introduction to Managerial Accounting	3
ECON 2333, Economic Issues and Concepts, OR ECON 2323, Principles of Microeconomics	3
LAW 2023, Legal Environment of Business	3
Junior-Senior Real Estate and Insurance Electives	12
Total	21

**Major in Business Administration
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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)..... 36-42

Major Requirements:

MUST INCLUDE ONE COURSE EACH FROM THE FOLLOWING GROUPS:

Accounting Elective 3

ACCT 3053, Cost Accounting with a Managerial Emphasis

ACCT 4013, Tax Accounting I

ACCT 4153, Fraud Examinations

Finance Elective 3

FIN 3763, Financial Institutions and Markets

FIN 4723, Investments

FIN 4743, Managerial Finance

FIN 4753, Capital Management

International Elective 3

ECON 3343, Comparative Economic Systems

ECON 4103, International Trade

ECON 4353, Economic Development

FIN 3813, International Finance Management and Banking

Macro Economics Elective 3

ECON 3323, Money and Banking

ECON 3353, Macroeconomic Analysis

ECON 3363, Labor Economics

ECON 4323, Economic Policy Analysis

Management Elective 3

MGMT 3143, Human Resource Management

MGMT 3183, Entrepreneurship

MGMT 3613, Leadership

MGMT 4123, International Management

MGMT 4163, Small Business Management

Marketing Elective 3

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 3

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

Total 24

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

Sem. Hrs.

11-20

Total 126

**Major in Business Economics
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:

Sem. Hrs.

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

MUST INCLUDE AT LEAST ONE COURSE EACH FROM THE FOLLOWING GROUPS:

International: 3 or 6

ECON 3343, Comparative Economic Systems

ECON 4103, International Trade

ECON 4353, Economic Development

ECON 4683, Special Problems in Economics

Public Policy and Business: 3 or 6

ECON 3323 Money and Banking

ECON 4323, Economic Policy Analysis

ECON 4333, Government Regulation of Business

ECON 4363, Global Environmental Policies

ECON 4683, Special Problems in Economics

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Theory of the Firm:.....	3 or 6
ECON 3363, Labor Economics	
ECON 4343, Managerial Economics	
ECON 4683, Special problems in Economics	

24

Electives:

	Sem. Hrs.
	19-16
Total	126

**Major in Economics
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

Language Requirement:

Foreign Language (refer to index for page reference)	Sem. Hrs.
	0-12

Major Requirements:

	Sem. Hrs.
CIT 3013, Management Information Systems	3
* ECON 2313, Principles of Macroeconomics	0-3
ECON 2323, 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	6
Sociology Elective	3

39-42

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

Electives:

	Sem. Hrs.
	39-21
Total	124

**Major in Economics
Bachelor of Arts
Pre-Law Emphasis**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees	Sem. Hrs.
Must take SCOM 1203, Oral Communications to satisfy Critical Thinking component	46-49

Language Requirement:

Foreign Language (refer to index for page reference)	Sem. Hrs.
	0-12

Major Requirements:

	Sem. Hrs.
ECON 2313, Principles of Macroeconomics	3
ECON 2323, Principles of Microeconomics	3
ECON 3313, Microeconomic Analysis	3
ECON 3353, Macroeconomic Analysis	3
ENG 3013, Practical Writing or ENG 3043, Technical Writing	3
LAW 2023, Legal Environment of Business	3
PHIL 1503, Logic and Practical Reasoning	3
SCOM 2243, Principles of Argumentation	3

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 4053, Employment Law	
Philosophy Electives (choose any two course 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 course among the following)	6
POSC 3123, American Constitutional Law	
POSC 3173, Civil Liberties	
POSC 3183, Criminal Law and the Constitution	

Free Electives	12-30
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Total 124

Minor in Economics

	Sem. Hrs.
* ECON 2313, Principles of Macroeconomics	0-3
ECON 2323, Principles of Microeconomics	3
ECON 3313, Microeconomic Analysis	3
ECON 3353, Macroeconomic Analysis	3
Junior-Senior Economics Electives	9-6
<hr/>	
*Required ONLY if not taken to satisfy a part of the General Education Requirements.	Total 18

Minor in General Business

	Sem. Hrs.
ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2133, Introduction to Managerial Accounting	3
* ECON 2333, Economic Issues and Concepts, OR *ECON 2323, Principles of Microeconomics	0-3
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
<hr/>	
*Required only if not taken to satisfy general education requirements.	Total 18-21

Department of Management and Marketing

Professor Gail Hudson, Chair; Professors Hester, Nonis; Associate Professors Bevill, 3, Roach; Assistant Professors Chang, Cocchiara, Fenner, Horner, Hunt, Studdard.

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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

**Major in Management
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:

	Sem. Hrs.
MKTG 3023, Applied Research	3
MGMT 3123, Principles of Management	3
MGMT 3143, Human Resource Management	3
MGMT 3613, Leadership	3
MGMT 4123, International Management	3
MGMT 4163, Small Business Management	3
SELECT SIX (6) SEMESTER HOURS FROM THE FOLLOWING ELECTIVES	6
ACCT 3053, Cost Accounting with a Managerial Emphasis	
MGMT 3163, Labor Relations and Collective Bargaining (or MGMT 4173, Compensation Management)	
MGMT 4143, Organizational Change and Development	
MGMT 4193, Management Internship	
MGMT 4393, Management of Service Operations (or MKTG 4013, Service and Non-Profit Marketing)	
<hr/>	
	24

Emphasis Area:

Students selecting an emphasis in Human Resource Management have the following requirements in addition to those Major Requirements listed above.

Human Resource Management:

	Sem. Hrs.
LAW 4053, Employment Law	3
MKTG 3023, Applied Research	3
MGMT 3143, Human Resource Management	3
MGMT 3163, Labor Relations and Collective Bargaining	3
MGMT 4123, International Management	3
MGMT 4173, Compensation Management	3
SELECT TWO FROM THE FOLLOWING EMPHASIS AREA ELECTIVES	6
BCOM 3573, Managerial Communication	
MGMT 3173, Special Topics in Human Resources	
MGMT 3193, Social Impact Management	
MGMT 4143, Organizational Change and Development	
MGMT 4193, Management Internship	
<hr/>	
	24

Free Electives:

	Sem. Hrs.
	16-19
<hr/>	
Total	126

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Marketing
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

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:

Sem. Hrs.

(see beginning of Business section).....39-42

Major Requirements:

Sem. Hrs.

MKTG 3023, Applied Research	3
MKTG 3163, Supply Chain Management.....	3
MKTG 4043, Consumer Behavior	3
MKTG 4083, Marketing Research Design and Analysis	3
MKTG 4223, Marketing Management	3
Emphasis Area (Marketing Management or Logistics).....	9
	<hr/>
	24

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

Sem. Hrs.

Marketing Management:

MKTG 4113, International Marketing	3
Select two (2) from the following course list. At least one (1) course must be in MKTG	6
ACCT 3053, Cost Accounting with a Managerial Emphasis	
BCOM 3573, Managerial Communication	
CIT 4453, Global E-Commerce	
ECON 4343, Managerial Economics	
MGMT 3183, Entrepreneurship	
MKTG 3033, Advertising and Promotion	
MKTG 3043, Retailing	
MKTG 3063, Transportation	
MKTG 3093, Professional Selling and Sales Management	
MKTG 4013, Service and Non-Profit Marketing	
MKTG 4103, Concepts of Business Logistics	
MKTG 4113, International Marketing	
MKTG 4123, Organizational Purchasing	
MKTG 4133, International Logistics and Outsourcing	
MKTG 4283, Marketing Internship	
	<hr/>
	9

Logistics:

MKTG 3063, Transportation	3
MKTG 4103, Concepts of Business Logistics	3
MKTG 4133, International Logistics and Outsourcing	3
Select one (1) from the following course list.....	3
ACCT 3053, Cost Accounting with a Managerial Emphasis	
BCOM 3573, Managerial Communication	
ECON 4333, Government Regulation of Business	
ECON 4343, Managerial Economics	
MGMT 4123, International Management	
MKTG 3043, Retailing	
MKTG 3093, Professional Selling and Sales Management	
MKTG 4093, Carrier Management	
MKTG 4123, Organizational Purchasing	
MKTG 4273, Transportation Internship	
	<hr/>
	12

Free Electives:

Sem. Hrs.

19-16

Total 126

**Major in International Business
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

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:

Sem. Hrs.

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:

Sem. Hrs.

(see beginning of Business section)..... 36-39

Major Requirements:

	Sem. Hrs.
AGEC 4023, International Commodity Marketing	3
CIT 4453, Technologies for Global E-Commerce	3
IB 3813, International Financial Management and Banking	3
IB 4103, International Trade	3
IB 4143, Export Policies and Procedures	3
IB 4283, International Business Practicum	3
IB 4363, Global Environmental Policies	3
MKTG 4113, International Marketing	3
MGMT 3193, Social Impact Management	3
MGMT 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 4353, Economic Development	
GEOG 3603, World Regional Geography	
IB 4133, International Law	
IB 4273, Special Problems in International Business	
SCOM 4253, Intercultural Communications	
Total	130

Minor in Entrepreneurship

	Sem. Hrs.
FIN 4613, New Venture Financing	3
MGMT 3183, Entrepreneurship	3
MGMT 4163, Small Business Management	3
MGMT 4183, Family Business Management	3
SELECT TWO FROM THE FOLLOWING:	6
ACCT 2033, Introduction to Financial Accounting	
ACCT 2133, Introduction to Managerial Accounting	
CIT 3013, Management Information Systems	
LAW 2023, Legal Environment of Business	
MGMT 3153, Organizational Behavior	
MGMT 4193, Internship	
MGMT 429V, Special Problems in Management	
MKTG 3013, Marketing	
Total	18

Minor in Management

	Sem. Hrs.
ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2033, Introduction to Financial Accounting	3
ECON 2323, Principles of Microeconomics, OR ECON 2333, Economic Issues and Concepts	3
MGMT 3153, Organizational Behavior	3
SELECT THREE OF THE FOLLOWING:	9
MGMT 3143, Human Resource Management	
MGMT 3163, Labor Relations and Collective Bargaining	
MGMT 3613, Leadership	
MGMT 4163, Small Business Management	
MGMT 4193, Internship	
Total	18

Minor in Marketing

	Sem. Hrs.
ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2033, Introduction to Financial Accounting	3
ECON 2323, Principles of Microeconomics, OR ECON 2333, Economic Issues and Concepts	3
MKTG 3013, Marketing	3
SELECT THREE OF THE FOLLOWING:	9
MKTG 3033, Advertising and Promotion	
MKTG 3043, Retailing	
MKTG 3063, Transportation	
MKTG 3093, Professional Selling and Sales Management	
MKTG 4123, Organizational Purchasing	
MKTG 4043, Consumer Behavior	
MKTG 4113, International Marketing	
MKTG 4223, Marketing Management	
Total	18

College of Communications

Professor Russell E. Shain, Dean

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 adviser. 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-television acquire the broad education needed by a mass communications professional, the college requires that 80 semester hours of a student's degree program be completed outside the Departments of Radio-Television and Journalism. At least 65 of the 80 hours must be in courses approved as "liberal arts and sciences." A list of approved courses is available at department offices.

The College of Communications offers students opportunities to apply what they learn in a variety of national student organizations, including: The Herald, ASU-TV, the Forensics team, American Advertising Federation, Society of Professional Journalists, National Broadcasting Society, National Press Photographers Association, Gamma Tau Epsilon (graphic communications), Public Relations Student Society of America, the Association of Women in Communications, the Undergraduate Student Research Association, and three honorary groups: Kappa Tau Alpha (journalism and mass communications), Pi Kappa Delta (forensics), and Lambda Pi Eta (communication).

Department of Communication Studies

Associate Professor Dennis White, Chair; Professor Baglan; Assistant Professors Clark, Hayes; Instructor Harper, Mack

The Department of Communication Studies offers work leading to a Bachelor of Arts in communication studies or to a Bachelor of Science in Education in speech communication and theatre (offered jointly with the Department of Theatre). The department emphasizes oral communication as an essential process in society, as a means of personal expression and development, and as a major means in which students adjust to their society. The department provides courses that stress the theoretical and functional aspects of oral communication.

The department offers practical experience through a nationally ranked forensics and debate program, a student community outreach program, and a college forensics tournament. Through judicious selection of electives, both within the department and outside, majors may prepare themselves for a wide range of careers. Students pursue programs to (1) provide the foundation for graduate work, with college teaching and research as an ultimate goal; (2) prepare for careers in community, educational, government, medical and industrial communication; (3) provide foundations for post-graduate study in law or theology; and (4) provide a traditional education in the liberal arts.

Major in Communication Studies Bachelor of Arts

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

	Sem. Hrs.
SCOM 1203, Oral Communication	3
SCOM 2203, Introduction to Human Communication	3
SCOM 2243, Principles of Argumentation	3
SCOM 2373, Introduction to Interpersonal Communication	3
SCOM 3363, Human Communication Research Methods	3

Electives:

At least 21 hours of Communication Studies courses.....	21
(At least 18 hours of these electives must be upper-level Communication Studies courses)	
Total	36

Language-Quantitative Block Option:	Sem. Hrs.
Communication Studies majors have an option of either A OR B.	
A. Foreign Language (Two years of a high school foreign language may be used to waive six semester hours of this requirement.)	12
B. Quantitative Block	12
CIT 2413, Introduction to Word/Information Processing	
CIT 3013, Management Information Systems	
ECON 2113, Business Statistics I	
FIN 3733, Personal Finance	
Minor:	Sem. Hrs.
Minor must be approved by adviser and shall not include courses taken to fulfill General Education requirements	18-24
Electives:	Sem. Hrs.
	3-12
Total	124

**Major in Speech Communication and Theatre Arts
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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	
HIST 2763, The United States To 1876, OR HIST 2773, The United States Since 1876	
MUS 2503, Fine Arts-Musical	
POSC 2103, Introduction to United States Government	
PSY 2013, Introduction to Psychology	

Major Requirements:	Sem. Hrs.
RTV 3324, Television Workshop for Non-Majors	3
SCOM 1203, Oral Communication	3
SCOM 1211 Intercollegiate Debate AND 1221, Forensic Activities I and II	2
SCOM 2233, Oral Interpretation	3
SCOM 2243, Principles of Argumentation	3
SCOM 3243, Principles of Persuasion	3
SCOM 3253, Principles of Listening	3
SCOM 4203, Small Group Communication	3
SCOM 4243, Interpersonal Communication	3
THEA 1213, Beginning Acting	3
THEA 2203, Voice Techniques for Theatre; OR CD 1103, Voice and Articulation Improvements	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
THEA 4263, History of Theatre I	3
THEA 4203, Stage Directing	3
Total	44

Professional Education Requirements:*	Sem. Hrs.
** EDSP 4543, Methods and Materials in Teaching Speech Com. and Theatre in the Secondary School	3
* 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 4826, Student Teaching in the Secondary School	12
Total	33
* 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:	Sem. Hrs.
HLTH 2513, Principles of Personal Health	3
PE Activity Elective	1
Total	4
Total	127

Minor in Communication Studies

	Sem. Hrs.
SCOM 1203, Oral Communication	3
SCOM 2233, 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 strives to provide realistic instruction in modern journalistic techniques, promote a rich background in the liberal arts and sciences, and present current communications problems and trends in the context of their origin and development.

The purpose of the graphic communications program is to educate individuals for management-level positions.

Major in Journalism Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

Major Requirements:

	Sem. Hrs.
JOUR 1003, Mass Communications in Modern Society	3
JOUR 2003, News Writing.....	3
JOUR 2013, News Reporting	3
JOUR 4073, Communications Law and Ethics	3

12

Emphasis Area: (select one of the four options)

News-Editorial Journalism

	Sem. Hrs.
JOUR 3003, Feature and Magazine Article Writing.....	3
JOUR 3043, Photography	3
JOUR 3063, News Editing.....	3
JOUR 3073, News Design	3
JOUR 3083, History of the Mass Media	3
JOUR 4053, Public Affairs Reporting	3
Electives (six hours must be selected from the following)	12-15
JOUR 3093, Photojournalism	
JOUR 3373, Introduction to Internet Communications	
JOUR 4013, Advanced Photojournalism	
JOUR 4373, Internet Communications	
RTV 3024, Video Production	
RTV 3034, Video Post Production	
RTV 4363, Multimedia Production Techniques	
Minor in the liberal arts and sciences; must be approved by adviser.....	18-24

48-57

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Public Relations

	Sem. Hrs.
JOUR 3363, 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

48-57

Advertising

	Sem. Hrs.
ECON 2313, Principles of Macroeconomics*	3
ECON 2323, Principles of Microeconomics*	3
JOUR 3023, Principles of Advertising	3
JOUR 3033, Advertising Copywriting	3
JOUR 3363, Communications Research	3
JOUR 3673, 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	6-12
Minor; outside the College of Communications (must be approved by adviser)	18-24

57-66

*Economics and marketing courses taken to meet general education or minor requirements cannot be used to meet requirements of the advertising emphasis area. When encountering such a conflict, the student may substitute approved hours in the liberal arts and sciences for major requirements.

Photojournalism

	Sem. Hrs.
GC0M 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 3003, Feature and Magazine Article Writing OR JOUR 4053, Public Affairs Reporting	3
Electives (six hours must be selected from the following)	6-9
JOUR 3373, Introduction to Internet Communications	
RTV 3024, Video Production	
RTV 3034, Video Post Production	
RTV 4363, Multimedia Production Techniques	
Minor in the liberal arts and sciences; must be approved by adviser	18-24

48-57

Electives:

	Sem. Hrs.
13-22 hours (Number of hours determined by emphasis area and minor selected)	
Total	125

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 may be counted within the 125 hours required for graduation.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Graphic Communications
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses
'C' in ENG 1003 and ENG 1013 *
BSE must have 'C' in MATH 1023
45 Upper Level **AFTER 30 HOURS** *
124 Earned Credit Hours *
18 of the Last 24 Hours at ASU *
32 Residence Hours *
57 Hours with Accredited Senior Institutions *
2.00 in ASU Coursework and Major Coursework *
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

	Sem. Hrs.
GCOM 1613, Graphic Communication Systems.....	3
GCOM 1813, Introduction to Digital Publishing.....	3
GCOM 2673, Digital Prepress Workflow and File Creation.....	3
GCOM 3003, Internship.....	3
GCOM 3603, Graphic Production Systems.....	3
GCOM 4613, Post Press and Distribution Management.....	3
GCOM 4623, Graphic Communications Estimating and Scheduling.....	3
GCOM 4643, Graphic Communications Management Seminar.....	3
GCOM 4683, Graphic Publication Production.....	3
GCOM 4783, Electronic Innovations in Graphic Communications.....	3
JOUR 3043, Photography.....	3
JOUR 3673, Desktop Publishing.....	3
JOUR 4373, Internet Communications.....	3
RTV 4363, Multimedia Production Techniques.....	3
	<hr/>
	42

Electives:

(9 hours must be from the Liberal Arts & Sciences area)	Sem. Hrs. 36
	<hr/>
Total	124

Minor in Journalism

	Sem. Hrs.
JOUR 2003, News Writing.....	3
Lower level journalism elective.....	3
12 hours upper-level journalism or public relations courses.....	12
	<hr/>
Total	18

Minor in Graphic Communications

	Sem. Hrs.
GCOM 1613, Graphic Communications Systems.....	3
15 hours (12 of which must be upper level GCOM courses).....	15
	<hr/>
Total	18

Department of Radio-Television

Professor Ose Amienyi, Chair; Professors Carvell, Jackson-Pitts, 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**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses
'C' in ENG 1003 and ENG 1013 *
BSE must have 'C' in MATH 1023
45 Upper Level **AFTER 30 HOURS** *
124 Earned Credit Hours *
18 of the Last 24 Hours at ASU *
32 Residence Hours *
57 Hours with Accredited Senior Institutions *
2.00 in ASU Coursework and Major Coursework *
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees.....	Sem. Hrs. 46-49
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College Core Requirements:

	Sem. Hrs.
RTV 1003, Mass Communications in Modern Society.....	3
RTV 2003, News Writing.....	3
RTV 4073, Communications Law & Ethics.....	3
	<hr/>
	9

Department Core Requirements:

	Sem. Hrs.
RTV 2023, Audio Production.....	3
RTV 3023, Video Production.....	3
RTV 3033, Video Post Production.....	3
RTV 3363, Communications Research.....	3
RTV/JOUR 3373, Introduction to Internet Communications.....	3
RTV 4313, Electronic Media Management.....	3
	<hr/>
	18

Emphasis Area: (select one of the three emphases)

Broadcast Journalism

	Sem. Hrs.
RTV 3003, Reporting for the Electronic Media.....	3
RTV 3103, Electronic News Gathering.....	3
RTV 4323, News Production and Performance.....	3
Two of the following.....	6
JOUR 4083, Sports, Business & Opinion Writing	
RTV 3343, Advanced Radio Practicum	
RTV/JOUR 4053, Public Affairs Reporting	
RTV 4443, Internship	
RTV 4473, Advanced Internet Communications	
Electives in Departments of Radio-Television and Journalism.....	0-3

TOTAL MAJOR HOURS 42-45

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

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

Minor outside the College of Communications; must be approved by adviser.....18-24

Production—Video/Audio Option	Sem. Hrs.
RTV 3013, Promotional Writing for the Electronic Media	3
RTV 3343, Advanced Radio Practicum OR RTV 4383, Advanced Television Production, OR RTV 4443, Internship	3
RTV 4353, Corporate Media Production	3
One of the following.....	3
JOUR 3043, Photography	
JOUR 3673, Desktop Publishing and Publication Design	
RTV 3673, Seminar in Digital Media and Design	
RTV 4443, Internship	
RTV 4473, Advanced Internet Communications	
RTV 4673, Advanced Applications in Digital Media and Design	
Electives in Departments of Radio-Television and Journalism (must be approved by adviser)	3-6
TOTAL MAJOR HOURS	42-45

Minor outside the College of Communications (must be approved by adviser)18-24

Production—New Media Option	Sem. Hrs.
RTV 3013, Promotional Writing for the Electronic Media	3
RTV 4363, Multimedia Production Techniques	3
RTV 4473, Advanced Internet Communications.....	3
One of the following.....	3
JOUR 3043, Photography	
JOUR 3673, Desktop Publishing and Publication Design	
RTV 3673, Seminar in Digital Media and Design	
RTV 4443, Internship	
RTV 4673, Advanced Applications in Digital Media and Design	
Electives in Departments of Radio-Television and Journalism.....	3-6
TOTAL MAJOR HOURS	42-45

Minor outside the College of Communications (must be approved by adviser)18-24

Production—Electronic Media Sales and Promotion	Sem. Hrs.
RTV 3013, Promotional Writing for the Electronic Media	3
RTV 3333, Radio-Television Advertising and Sales	3
RTV/JOUR 4113, Integrated Communication Strategies	3
One of the following.....	3
JOUR 3013, Public Relations Tools and Techniques	
JOUR 3033, Advertising Copywriting	
JOUR 4003, Media Planning	
RTV 3343, Advanced Radio Practicum	
RTV 4443, Internship	
RTV 4473, Advanced Television Production	
Electives in Departments of Radio-Television and Journalism.....	3-6
TOTAL MAJOR HOURS	42-45

Minor outside the College of Communications (must be approved by adviser)18-24

Electives:	Sem. Hrs.
(Number of hours determined by emphasis area and minor selected)	
Total	125

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

Minor in Radio-Television

	Sem. Hrs.
RTV 2003, News Writing	3
RTV 2024, Audio Production	4
RTV 3024, Video Production or RTV 3034, Video Post Production	4
Upper level Radio-Television electives	9
Total	20

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) | Mathematics |
| Art | Middle-Level Education (4-8) |
| Business Education | Music (BME) |
| Early Childhood Education (P-4) | Physical Education |
| English | Social Science |
| French | Spanish |
| General Science | Speech Communication and Theatre |
| (a) Biology | |
| (b) Chemistry | |
| (c) Physics | |

The Title II Teacher Education Report Card was enacted by the United States Congress in 1998. Accountability measures for new teachers, which include standardized test scores and other information about the institution's teacher education program, are a part of the institutional and state reports mandated by this legislation. Institutions are required to report this information through publications such as school catalogs and promotional materials sent to prospective students, secondary guidance counselors, and potential employers of their graduates. With increased demands by the public for improved schools and increased student achievement, the knowledge, skills, and dispositions of teachers are central to the success of all students. One component of all teacher education programs is standardized tests. The PRAXIS I test assesses basic computation and literacy skills. The PRAXIS II assesses professional teaching knowledge and academic content knowledge. Below are the PRAXIS I and PRAXIS II scores for the Arkansas State University students during the 2006-2007 academic year. Additional information about teacher education programs at Arkansas State University may be accessed at <http://education.astate.edu>.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Teacher Education Graduates

Major Categories	ASU Pass Rate	State Pass Rate
Basic Skills [PRAXIS I]	100%	100%
Professional Knowledge* [PRAXIS II] (Including Principles of Learning & Teaching and Pedagogy Exams)	89%	98%
Academic Content Area* [PRAXIS II]	96%	99%

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.
- ELSE 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).

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Department of Psychology and Counseling

Loretta Neal McGregor, Chair; Professors Hall, Howerton, Johnson, Jones, Saarnio; Associate Professors Christenberry, Biondolillo, Ochs, Pearce, Peck, Yanowitz; Assistant Professors Claxton, Easton, Khramtsova, 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.

Psychology Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

Major Requirements:

	Sem. Hrs.
A course taken to satisfy requirements for a minor and/or a second major cannot also be used to satisfy total credit hour requirements in the psychology major.	
PSY 2023, Contemporary Psychology	3
PSY 3103 and PSY 3101, Quantitative Methods for Behavioral Sciences and Laboratory.....	4
PSY 3123 and PSY 3121, Experimental Psychology and Laboratory	4
PSY 3823, History of Psychology.....	3
One of the following courses:	3
PSY 3153, Human Research	
PSY 4173, Introduction to Psychological Testing	
One of the following courses:	3
PSY 3403, Child Psychology	
PSY 3413, Adolescent Psychology	
PSY 3453, Developmental Psychology	
Two of the following courses:	6
PSY 3303, Motivation	
PSY 4323, Physiological Psychology	
PSY 4343, Learning Processes	
PSY 4363, Cognitive Psychology	

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Two of the following courses:	6
PSY 3523, Introduction to Social Psychology	
PSY 4533, Abnormal Psychology	
PSY 4543, Personality Development	
Upper Division Psychology Electives	9
Area of Concentration or Minor (approved by adviser)	18-24
	59-65

Electives:

	Sem. Hrs.
Electives	10-19
	Total 124

Minor in Psychology

	Sem. Hrs.
Elective in Psychology (in addition to PSY 2013)	3
Upper level electives in Psychology	15
	Total 18

Department of Educational Leadership, Curriculum, and Special Education

Professor Mitchell Holifield, Chair; Professors Beineke, Cline, Cox, Foldesy, McBride, Saleh; Associate Professors Bradley, Holman, Lamb-Milligan, Nichols; Assistant Professors Bounds, Grady, Henley, Maness, Neal, Singleton

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 prerequisite for endorsement in special education. Students who wish to teach special education preschool through grade 4 (P-4) must complete requirements for a regular education P-4 license, while students who wish to teach special education grade 4-12 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Department of Teacher Education

Professor Dianne Lawler-Prince, Chair; Professors Gilbert, Towery; Associate Professors Fiala, Grymes, Malinsky, Meeks, Owens, Ross, Smith, Williams; Assistant Professors Bowser, Gao, Johnson, Jupp, Keyes, McJunkin, McMurtry, Murphy, D. Owens, Stewart; Instructors Bacot, Dewailly, Worley

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 judgment 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 Grades

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

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

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).

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS ***

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

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

BIOL 1001, Biological Science Laboratory **AND** BIOL 1003, Biological Science

ENG 1003, Composition I

ENG 1013, Composition II

ENG 2003, Intro to W Lit I, ENG 2013, Intro to W Lit II, PHIL 1103, Intro to Phil (**select two**)

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

POSC 2103, Introduction to United States Government

PSY 2013, Introduction to Psychology

SCOM 1203, Oral Communication

UC 1013, Making Connections - Education

Enhancement course: ECH 4063, Social Foundations of Education and others as needed

Specialty Area Requirements:

Sem. Hrs.

ARED 3702, Public School Art for the Classroom Teacher	2
GSP 3203, Science in the Elementary Classroom	3
MATH 2113, Mathematics for School Teachers I	3
MATH 2123, Mathematics for School Teachers II	3
MUED 3612, Music and Methods for the Classroom Teacher	2
PE 3802, Physical Education for Teachers of Young Children	2

15

Licensure Requirement:	Sem. Hrs.
HIST 3038, History of Arkansas	3
	<hr/> 3

Professional Education Requirements:	Sem. Hrs.
ECH 2002, Introduction to Educational Technology	2
ECH 2013, Survey of Early Childhood Education	3
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.....	3
* ECH 3043, Program Development and Management for Early Care and Education Centers	3
* ECH 3053, Curriculum Development in Early Childhood Education	3
* ECH 3063, Individualizing Programs for Children and Families.....	3
* ECH 3073, Children, Families & Community Relationships: Field Experiences II	3
* ECH 3083, Integration of Technology into the Curriculum.....	3
* ECH 3023, Assessing and Evaluating Student Behavior	3
* ECH 4012, Classroom Management.....	2
* ECH 4013, Field Experiences III. Pre-Internship.....	3
* ECH 4023, Methods and Materials of Language Arts and Social Studies	3
* ECH 4043, Methods and Materials of Math and Science.....	3
* ECH 4063, Social Foundations of Education (enhancement course).....	(3)
* ECH 4086, Teaching Internship in Early Childhood Education - Kindergarten	6
* ECH 4096, Teaching Internship in the Elementary School - Primary Grades 1-3	6
ELSE 3643, Exceptional Student in the Regular Classroom.....	3
* RDNG 3203, Foundations of Reading.....	3
* RDNG 4403, Early Literacy: Theory and Practice	3
	<hr/> 69
* Prerequisite: Admission into the Teacher Education Program	Total 133-134

**Major in Early Childhood Education
Bachelor of Science in Education with Emphasis in Special Education
(Preschool - Grade 4 License)**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

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

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:	Sem. Hrs.
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
- BIOL 1001, Biological Science Laboratory AND BIOL 1003, Biological Science
- ENG 1003, Composition I
- ENG 1013, Composition II
- ENG 2003, Intro to W Lit I, ENG 2013, Intro to W Lit II, PHIL 1103, Intro to Phil (select two)
- 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
- POSC 2103, Introduction to United States Government
- PSY 2013, Introduction to Psychology
- SCOM 1203, Oral Communication
- UC 1013, Making Connections - Education
- Enhancement course: ECH 4063, Social Foundations of Education and others as needed

Specialty Area Requirements:

GSP 3203, Science for Teachers	Sem. Hrs.	3
MATH 2113, Mathematics for School Teachers I.....		3
MATH 2123, Mathematics for School Teachers II		3
	<hr/>	9

Licensure Requirement:

HIST 3038, History of Arkansas	Sem. Hrs.	3
	<hr/>	3

Professional Education Requirements:

ECH 2002, Introduction to Educational Technology	Sem. Hrs.	2
ECH 2022, Introduction to Elementary School Teaching: Field Experience I.....		2
* ECH 3033, Effective Teaching Strategies.....		3
* ECH 3083, Integration of Technology into the Curriculum.....		3
* ECH 4063, Social Foundations of Education		3
* ECH 4086, Teaching Internship in Early Childhood Education—Kindergarten		6
ELSE 3643, Exceptional Student in the Regular Classroom.....		3
ELSE 4033, Behavior Intervention and Consultation		3
* ELSE 4743, Assessment of the Young Child with Exceptionalities.....		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
	<hr/>	40

Major Requirements:

ECH 2012, Survey of Early Childhood Education	Sem. Hrs.	3
* ECH 2023, 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 4083, Collaboration for Special Education Service Delivery		3
* ELSE 4753, Methods for Working with Young Children with Exceptionalities.....		3
	<hr/>	38

*Prerequisite: Admission into the Teacher Education Program

Total	136-137
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The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Middle-Level Education
Bachelor of Science in Education
(Grades 4-8)**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

The Middle-Level Education program is designed to prepare teachers to teach in grades 4-8 as a mathematics and science or as an English/language arts and social studies specialist and in grades 4-6 as a self-contained generalist. Students should select an area of specialization in consultation with their middle-level academic adviser.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses

*C in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level AFTER 30 HOURS *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

All Mid-Level Education Majors must take the courses below.

ART 2503, Fine Arts Visual OR MUS 2503, Fine Arts Musical OR THEA 2503, Fine Arts Theatre.....	3
BIOL 1003 AND 1001, Biological Science/Lab.....	4
ENG 1003 AND 1013, Composition I and II	6
ENG 2003 AND 2013, Introduction to Literature of the Western World I and II.....	6
GEOG 2613, Introduction to Geography	3
HIST 1013 OR 1023, World Civilization To or Since 1600	3
HIST 2763 OR 2773, The United States To or Since 1876	3
MATH 1023, College Algebra.....	3
PE 1002, Concepts of Fitness OR NRS 2203, Basic Human Nutrition	2-3
PHSC 1203 AND 1201, Physical Science/Lab.....	4
POSC 2103, Introduction to United States Government	3
PSY 2013, Introduction to Psychology.....	3
SCOM 1203, Oral Communication	3
UC 1013, Making Connections - Education.....	3
Enhancement Courses (see adviser)	
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49-50	

Professional Education Requirements (Major):

Sem. Hrs.

ELSE 3643, Exceptional Child in the Regular Classroom.....	3
MLED 2002, Introduction to Educational Technology.....	2
MLED 2022, Introduction to Teaching	2
The following courses require admission to the Teacher Education Program as a prerequisite	
MLED 3003, Nature and Needs of the Mid-Level Learner	3
MLED 3023, Assessing and Evaluating Student Behavior.....	3
MLED 3083, Integration of Technology into the Curriculum	3
MLED 3013, Literacy Through Literature for the Middle Grades.....	3
MLED 3033, Effective Teaching Strategies	3
MLED 3073, Key Issues of Teaching and Learning in Middle Grades (Prerequisite: MLED 3003, MLED 3033)	3
MLED 4013, Methods and Materials for Teaching Language Arts and	
Social Studies in the Middle Grades (Prerequisite: MLED 3033, MLED 3073).....	3
MLED 4023, Methods and Materials for Teaching Mathematics and	
Science in the Middle Grades (Prerequisite: MLED 3033, MLED 4003).....	3
MLED 4034, Classroom Management and Curriculum Applications: Field Experience II	
(Prerequisite: MLED 3033, MLED 3073).....	4
MLED 4083, Social Foundations of Education.....	3
RDNG 4343, Reading in the Content Areas: Middle and Secondary Schools (Prerequisite: RDNG 3203)	3
Admission to the Teaching Internship Semester is required for the following courses	
MLED 4106, Teaching Internship Grades 4-5	6
MLED 4116, Teaching Internship Grades 6-8.....	6
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Licensure Requirement:

Sem. Hrs.

GEOL 1003 AND 1001, Environmental Geology and Laboratory OR	
PHYS 1103 AND 1101, Space Science and Laboratory.....	4
GSP 3203, Science for Teachers	3
HIST 3038, History of Arkansas	3
MATH 2113, Mathematics for School Teachers I.....	3
MATH 2123, Mathematics for School Teachers II	3
MATH 3133, Mathematics for School Teachers III	3
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Middle Level Area of Specialization

Program Content Area Specialization a minimum of 9 hours is required. All Students must select a specialty area, either math and science or english/language arts and social studies. Students should check with their academic advisor before making final selections or to select other courses that will prepare them to teach in grades 4-8.

Specialty Area Math and Science

Math: (Two additional courses or at least 6 hours)

MATH 3033, Geometry for the Middle School Teacher	3
Math Electives (one required):	3-4
MATH 1054, Precalculus Mathematics	
MATH 2123, Discrete Structures	
MATH 2194, Survey of Calculus	
MATH 2204, Calculus I	
STAT 3233, Applied Statistics	
Other electives as approved by advisor	

Science: (One additional course or at least 3 hrs)

Science Electives (one required):	3-4
BIO 1303 AND 1301, Biology of Animals and Laboratory	
BIO 1503 AND 1501, Biology of Plants and Laboratory	
BIO 3023, Principles of Ecology	
CHEM 1003, Introduction to Chemistry	

Total 9-11

Specialty Area English/Language Arts and Social Studies

English Language Arts: (Two additional courses or at least 6 hours from the following)..... 6

ENG 3003, Advanced Composition	
ENG 3583, Literature for Adolescents	
ENG 4063, Comparative Modern Grammars	
Other electives as approved by advisor	

Social Studies: (One additional course or at least 3 hours from the following) 3

GEOG 3203 World Regional Geography	
HIST 1013 OR 1023, World Civilization To or Since 1660	
HIST 2763 OR 2773, The United States To or Since 1876	
Other electives as approved by advisor	

Total 9

Total Program 130-131

Department of Health, Physical Education, and Sport Sciences

Professor Jim L. Stillwell, Chair; Professor Adams; Associate Professors Comeau, Dean, Finnicum, Graves; Assistant Professors Bryant, Church, Kim, LaVetter, Mooneyhan; Instructors Adams, Hilson, Huckabee, Mathis, Perkey, Sibrava.

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.

Major in Athletic Training Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

The Arkansas State University Athletic Training Education Program (ATEP) 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 (BOC) and embark on a career as a certified athletic trainer (ATC). The ATEP is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Interested students should contact the Athletic Training Program Director at (870) 972-3066 for more information.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees 51

Specific General Education Requirements:

Students in this major must take the following:

BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health Professionals and Laboratory

BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory

CHEM 1013 **AND** CHEM 1011, General Chemistry I and Laboratory

MATH 1023, College Algebra

PSY 2013, Introduction to Psychology

SOC 2213, Introduction to Sociology

Must take PHYS 2054, General Physics I as Enhancement (this course is required regardless of AAGE exam score)

Required Support Courses:

	Sem. Hrs.
BIO 2223 AND 2221, Human Anatomy/Physiology II and Laboratory	4
ES 4693, Techniques of Strength Training and Conditioning	3
ES 3553, Basic Physiology of Activity	3
ES 4763, Kinesiology	3
ES 3543, Human Anatomy and Anatomical Fundamentals of Motion	3
ES 3633, Nutrition for Health, Sport, and Exercise	3
ES 3743, Research and Statistical Methods in Exercise Science	3
HLTH 2513, Personal Health	3
HP 2013, Medical Terminology	3
HP 3003, General Gross Anatomy	3
NRS 3023, Interdisciplinary Clinical Pathophysiology	3
	34

Athletic Training Courses:

	Sem. Hrs.
AT 2203 AND AT 2201, Emergency Management in Athletic Training and Laboratory	4
AT 2301, Clinical Instruction in Athletic Training I	1
AT 2311, Clinical Experience in Athletic Training I	1
AT 2401, Clinical Instruction in Athletic Training II	1
AT 2411, Clinical Experience in Athletic Training II	1
AT 2733 AND AT 2731, Care and Prevention of Athletic Injuries and Laboratory	4
AT 2883, Foundations of Athletic Training	3
AT 3301, Clinical Instruction in Athletic Training III	1
AT 3311, Clinical Experience in Athletic Training III	1
AT 3401, Clinical Instruction in Athletic Training IV	1
AT 3411, Clinical Experience in Athletic Training IV	1
AT 3733 AND AT 3731, Advanced Assessment of Athletic Injuries and Laboratory	4
AT 3743 AND AT 3741, Therapeutic Exercise and Laboratory	3
AT 3833 AND AT 3831, Therapeutic Modalities and Laboratory	4
AT 4301, Clinical Instruction in Athletic Training V	1
AT 4311, Clinical Experience in Athletic Training V	1
AT 4401, Clinical Instruction in Athletic Training VI	1
AT 4411, Clinical Experience in Athletic Training VI	1
AT 4723, Athletic Training Administration	3
AT 4743, Athletic Training Seminar	3
	41

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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: BIO 2201, BIO 2203, BIO 2221, BIO 2223, HP 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 proficiencies.
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 class). 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.

Technical standards for admission to the Athletic Training Program can be found on the program's website at <http://www.ct.astate.edu/hpess/AthleticTrainingProgram/athome.html>.

- 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

**Major in Exercise Science
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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 AND CHEM 1011, Gen Chem I Lab

Required Courses for Exercise Science:

Sem. Hrs.

BIO 2203 AND 2201, Human Anatomy/Physiology I and Laboratory	4
BIO 2223 AND 2221, Human Anatomy/Physiology II and Laboratory	4
ES 3543, Human Anatomy	3
ES 3553, Basic Physiology of Activity	3
ES 3623, Techniques of Physiological Fitness Assessment	3
ES 3633, Nutrition for Health, Sport and Exercise	3
ES 3653, Techniques of Aerobic Conditioning	3
ES 3713, Cardiovascular Physiology	3
ES 3743, Research and Statistical Methods in Exercise Science	3
ES 4673, Fitness Programming for Disabled	3
ES 4683, Exercise Prescription	3
ES 4693, Techniques of Strength Training and Conditioning	3
ES 4763, Kinesiology	3
ES 4813, Applied Motor Learning	3
ES 4843, Practicum/Pre-Internship	3
HLTH 2513, Principles of Personal Health	3
HLTH 2523, First Aid and Safety	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 1013, Introduction to HPES OR HPES 1883, Foundations of HPES	3
HPES 4896, Internship in HPES OR	3
HPES 4863, Internship in HPES I and HPES 4893, Internship in HPES II	6
PE 4843, Philosophy and Ethics in Sport	3
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Electives: (depending on general education requirements)

Sem. Hrs.

1-4

Total 124

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

**Major in Health Promotion
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

Sem. Hrs.

SCOM 1203, Oral Communications 3

Health Promotion Major Course Requirements:

Sem. Hrs.

BIO 2203 AND 2201, Human Anatomy/Physiology I and Laboratory	4
BIO 2223 AND 2221, Human Anatomy/Physiology II and Laboratory	4
ECH 3083, Integration of Technology into the Curriculum	3
ES 3543, Human Anatomy and Anatomic Fundamentals of Motion	3
ES 3553, Basic Physiology of Activity	3
ES 3623, Techniques of Physiological Fitness Assessment	3
ES 3653, Techniques of Aerobic Conditioning	3
ES 4693, Techniques of Strength Training and Conditioning	3
HLTH 2513, Principles of Personal Health	3
HLTH 2523, First Aid and Safety	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 1013, Introduction to HPES OR HPES 1883, Foundations of HPES	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 2203, Basic Human Nutrition	3
NRS 3353, Aging and the Older Adult OR	3
SOC 3343, Sociology of Aging	3
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Electives: (depending on general education requirements)

Sem. Hrs.

1-4

Total 124

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Physical Education
Bachelor of Science in Education P-12**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

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.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

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

Specific General Education Requirements:

SCOM 1203, Oral Communication

Major Requirements:

Sem. Hrs.

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
HPES 1013, Introduction to HPESS OR HPES 1883, Foundations of HPESS.....	3
PE 3802, Physical Education for Teachers of Young Children.....	2
PE 3823, Theory and Practice of Teaching Rhythmical Activities.....	3
PE 3832, Theory and Practice of Teaching Fitness Concepts.....	2
PE 3842, Theory and Practice of Teaching Leisure Sports.....	2
PE 3862, Theory and Practice of Teaching Racket Sports.....	2
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
Total	52

Professional Education Requirements:*

Sem. Hrs.

* PSY 7003, Educational Psychology.....	3
SCED 2514, Introduction to Secondary Teaching.....	4
** SCED 3515, Performance Based Inst. Design.....	5
** EDPE 4583, Methods and Materials for Teaching Physical Education in the Secondary School.....	3
** SCED 4713, Educational Measurement with Computer Applications.....	3
** TIPE 4826, Teaching Internship in the Secondary School.....	12
Total	30

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

** Prerequisite: Admission into the Teacher Education Program

Total 128

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

Sem. Hrs.

ES 4693, Techniques of Strength Training and Conditioning.....	3
ES 3553, Basic Physiology of Activity.....	3
PE 3872, Rules and Officiating.....	2
PE 3813, Concepts of Athletic Training.....	3
PE 4743, Legal Aspects of Sport.....	3
PE 4873, Organization and Administration of Interscholastic Athletics OR PE 4783, Organization and Administration of Physical Education.....	3
Two of the following courses:.....	4
PE 4822, Theory and Practice of Coaching Football	
PE 4832, Theory and Practice of Coaching Basketball	
PE 4842, Theory and Practice of Coaching Track	
PE 4852, Theory and Practice of Coaching Baseball	
PE 4862, Theory and Practice of Coaching Gymnastics	
PE 4872, Theory and Practice of Coaching Volleyball	
PE 4882, Theory and Practice of Coaching Soccer	
PE 480V, SPTW III: Basketball Coaching & Conditioning	
PE 480V, SPTW: Coaching Young Athlete	

Total 21

Driver Education:

Sem. Hrs.

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

Total 9

Physical Education (Elementary certification P-8):

Sem. Hrs.

ES 3553, Basic Physiology of Activity.....	3
HLTH 2513, Principles of Personal Health.....	3
HLTH 3533, Strategies for Teaching Health Education.....	3
PE Activity Courses (one team and one racket sport).....	2
PE 3802, Physical Education for Teachers of Young Children.....	2
PE 3832, Theory and Practice of Teaching Fitness Concepts.....	2
PE 3823, Theory and Practice of Teaching Rhythmical Activities.....	3
PE 4663, Motor Skills Development for Children.....	3
PE 4703, Adaptive Physical Education.....	3
PE 4783, Organization and Administration of Physical Education.....	3
PE 4893, Practicum in Elementary Physical Education.....	3

Total 30

**Major in Sport Management
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

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

Required Major Courses:

	Sem. Hrs.
CIT 1503, Microcomputer Applications.....	3
ES 3743, Research and Statistics in Exercise Science	3
HPES 1013, Introduction to HPESS OR HPES 1883, Foundations of HPESS	3
HPES 4896, Internship in HPESS OR	
HPES 4863, Internship in HPESS I and HPES 3893, Internship in HPESS II	6
PE 3853, Sports Promotion and Sales Management.....	3
PE 3863, Economic and Financial Mgmt for Sport Organizations	3
PE 3873, Facility and Event Management	3
PE 3893, Sports in Society.....	3
PE 4743, Legal Issues in Sport	3
PE 4773, Organization and Management of Sports Programs	3
PE 4843, Philosophy and Ethics in Sports	3
PE 4853, Applied Psychology of Sports and Exercise	3
PE 4873, Organization and Administration of Interscholastic Athletes	3
PR 3003, Principles of Public Relations	3
SCOM 3203, Business & Professional Communication	3
	48

Emphasis Area:

Business

	Sem. Hrs.
ACCT 2023, Fundamental Accounting Concepts	3
FIN 3713, Business Finance	3
MGMT 3153, Organizational Behavior	3
MGMT 3143, Human Resource Management.....	3
MGMT 3613, Leadership	3
MKTG 3013, Marketing	3
MKTG 3073, Market Planning OR MKTG 3093, Professional Selling and Sales Management.....	3
MKTG 4013, Service and NonProfit Marketing OR MKTG 4043, Consumer Behavior.....	3
	24

Media

	Sem. Hrs.
JOUR 2003, News Writing.....	3
JOUR 2013, News Reporting	3
JOUR 3023, Principles of Advertising	3
JOUR 3033, Advertising Copyright OR JOUR 4083, Sport, Business, and Opinion Writing.....	3
JOUR 3083, History of Mass Media OR JOUR 3043, Photography	3
JOUR 3673, Desktop Pub / Publication Design	3
PR 3013, Tools and Techniques	3
RTV 1003, Mass Communication.....	3
	24

Electives:

	9-12
Total	124

SPECIAL DEPARTMENTAL NONREFUNDABLE COURSE FEES

Teacher Education Admission Fee	\$25.00
RDNG 3203 Foundations of Reading Instruction (P-4 & 4-8 teacher education admission fee) SCED 3515 Performance Based Instructional Design (7-12 teacher education admission fee)	
Teacher Education Portfolio Fee	\$30.00
ELED 2022 Introduction to Teaching (teacher education portfolio fee)	
Teacher Internship Fee	\$10/credit hour
ECH 4086 Teaching Internship Kindergarten	
ECH 4096 Teaching Internship Primary	
MLED 4106 Teaching Internship Grades 4-5	
MLED 4116 Teaching Internship Grades 6-8	
TIAG, TIAR, TIBI, TIBU, TICH, TIEN, TIHI, TILA, TIMA, TIMU, TIPE, TIPH, TISP 4826 Teaching Internship in the Secondary School	

College of Engineering

Professor Gregory C. Phillips, Dean. Professor R. C. Clifft, Associate Dean.

One of the hallmarks of modern times is the acceptance of accelerating change, both in technological products and in educational philosophies. Few college graduates in today's workforce function 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 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 engineering profession is concerned with the innovative, effective, and efficient 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 and requires 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 College of Engineering is comprised of four undergraduate academic programs: Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering. All pre-requisite engineering, mathematics, and science courses for all engineering degrees 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, all engineering degrees require that one of the two following conditions be met: (1.) "C" or better in each course in the 43-hour major requirements or (2.) 2.5 or greater grade point average in the 43-hour major requirements.

Transfer credits are acceptable under criteria consistent with ABET, the policies of Arkansas State University, and the approval of the College of Engineering. The transfer student is required to complete a minimum of 32 semester hours of engineering courses at Arkansas State University for graduation.

Students with an undergraduate engineering degree from another university and pursuing a second degree in engineering at Arkansas State University must meet all University requirements and complete a minimum of 32 semester hours of engineering courses at Arkansas State University for graduation. Students having completed an undergraduate engineering degree at Arkansas State University and pursuing a second degree in engineering at Arkansas State University must meet the residency requirements of the University and meet all course requirements for the second degree.

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 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.

General Education Curriculum

The general education categories / courses listed below are required for all engineering baccalaureate degrees.

	Sem. Hrs.
Communication	6
ENG 1003, Composition	
ENG 1013, Composition II	
Mathematics	4
Math 2204, Calculus I	
Critical Thinking	3
SCOM 1203, Speech Communication	
Understanding Global Issues (One of following courses)	3
ANTH 2233, Introduction to Cultural Anthropology	
GEOG 2613, Introduction to Geography	
HIST 1013, World Civilization since 1660	
HIST 1023, World Civilization since 1660	
Arts and Humanities	6
Fine Arts. Select one of the following:	
ART 2503, Fine Arts - Visual	
MUS 2503, Fine Arts - Musical	
THEA 2503, Fine Arts - Theatre	
Humanities. Select one of the following:	
ENG 2003, Introduction to the Literature of the Western World I	
ENG 2013, Introduction to the Literature of the Western World II	
PHIL 1103, Introduction to Philosophy	
Social Sciences**	6
Select two of the following (at least one must be selected from HIST 2763, HIST 2773, or POSC 2103.)	
ECON 2313, Principles of Macroeconomics	
ECON 2333, Economic Issues and Concepts	
HIST 2763, The United States to 1876	
HIST 2773, The United States since 1876	
POSC 1003, Introduction to Politics	
POSC 2103, Introduction to American Government	
PSY 2013, Introduction to Psychology	
SOC 2213, Introduction to Sociology	

**The State Minimum General Education Core allows engineering students to substitute higher-level math and/or science courses as part of this requirement. One of the additional required support courses is used to satisfy this requirement in addition to the above.

Science	7
Life Sciences:	
BIOL 1063, People and the Environment	
Physical Sciences:	
CHEM 1013, General Chemistry I, AND CHEM 1011, General Chemistry I Laboratory	
Health and Wellness.....	2
PE 1002, Concepts of Fitness	

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Other Rules:

A course may be counted in satisfaction of only one area requirement.
 At least one History (HIST) course must be selected.
 With the exception of English courses (ENG), no more than two selections may have the same prefix.
 A science course and its laboratory will count as a single selection.

Additional Support Courses

The additional support courses listed below are required for all engineering baccalaureate degrees.

MATH 2214 AND MATH 3254, Calculus II and III	8
MATH 4403, Differential Equations	3
PHYS 2034, University Physics I	4
Science Elective	4

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Engineering Core Curriculum

The engineering courses listed below are required for all engineering baccalaureate degrees.

ENGR 1402, Concepts of Engineering.....	2
ENGR 1412, Software Applications for Engineers	2
ENGR 2403, Statics	3
ENGR 2413 AND ENGR 2411, Mechanics of Materials and Mechanics of Materials Laboratory	4
ENGR 2423 AND ENGR 2421, Electric Circuits I and Electric Circuits I Laboratory	4
ENGR 3423, Dynamics	3
ENGR 3433, Engineering Economics	3
ENGR 3443, Engineering Thermodynamics I	3
ENGR 4453, Numerical Methods for Engineers.....	3
ENGR 4463, Senior Design I	3
ENGR 4483, Senior Design II	3

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Engineering Program

Professors R. Clift, R. Engelken, T. Parsons; Associate Professors B. Edgar, P. Mixon, P. Sherman; Assistant Professors A. Elsayed, S. Haran, S. Kher; Instructors J. Stewart, L. Walker

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 Engineering Program offers a Bachelor of Science in Engineering (BSE) degree with professional concentration areas in civil, electrical, and mechanical engineering; or an individually planned program that may combine or cut across traditional fields of engineering and applied sciences.

The BSE degree program is accredited under the General Basic-Level Criteria by the Engineering Accreditation Commission of 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.

The 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 Program is accredited by the Engineering Accreditation Commission of ABET, and thus, has published educational objectives that are consistent with the institutional mission and ABET criteria, has a process that periodically documents and demonstrates that the objectives are based on the needs of the program's various constituencies, has an assessment and evaluation process that periodically documents and demonstrates the degree to which these objectives are attained, and uses the assessment results to improve the effectiveness of the program.

**Major in Engineering
Bachelor of Science in Engineering**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements

Sem. Hrs.

Refer to the General Education Curriculum for the College of Engineering 37

Additional Support Courses:

Refer to the Additional Support Courses for the College of Engineering 19

Engineering Core Requirements:

Refer to the Engineering Core Requirements for the College of Engineering 33

Major Requirements:

Area of concentration (selected from the three following areas) 43

TOTAL 132

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 areas listed below.

Civil Engineering

CE 2202, Civil Engineering Presentations	2
CE 2223, Plane Surveying	3
CE 3213, Structural Analysis I	3
CE 3223, Civil Engineering Materials	3
CE 3233, Structural Analysis II	3
CE 3253, Engineering Hydrology	3
CE 3263, Introduction to Environmental Engineering	3
CE 3273, Water and Waste Systems	3
CE 4223, Transportation Engineering	3
CE 4243, Reinforced Concrete Design OR CE 4283, Structural Steel Design ..	3
CE 4253, Soil Mechanics	3
CE 4251, Soil Mechanics Laboratory	1
ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3
***Engineering Electives	6

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Electrical Engineering

EE 3401, Electronics I Laboratory	1
EE 3403, Electronics I	3
EE 3313, Electric Circuits II	3
EE 3333, Digital Electronics I	3
EE 3343, Engineering Fields and Waves I	3
EE 3353, Continuous and Analog Systems	3
EE 4323, Electrical Machinery OR EE 4353, Power Systems	3
EE 4373, Electronics II OR EE 3363, Semiconductor Matl and Devices I	3
EE 4371, Intermediate EE Laboratory I OR EE 3303, Semiconductor/Optoelectronic Materials and Devices I Laboratory	1-3
EE 4383, Digital Electronics II, EE 4333, Communications Theory, OR EE 4313, Control Systems	3
***EE or Computer Science Electives	4
***Graphics, Programming, or Practical Elective	3
***Approved Electives	6
***Engineering Elective	4-2

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Mechanical Engineering

ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3
ME 2502, Solid Modeling for Mechanical Engineers	2
ME 3504, Process Monitoring and Control	4
ME 3513, Mechanical Vibrations	3
ME 3533, Engineering Thermodynamics II	3
ME 4503, Fluid and Thermal Energy Systems	3
ME 4543, Machine Design	3
ME 4553, Heat Transfer	3
ME 4563, Introduction to Manufacturing Processes	3
ME 4573, Mechanical System Design	3
***Mechanical Engineering Electives	9
***Approved Electives	3

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*** Subject only to a program adviser's approval, these electives may be selected from any courses within the designated elective group that make a rational contribution to the student's personal and professional education.

Civil Engineering Program

Professors T. Parsons, Director of Civil Engineering, R. Clifft; Assistant Professor A. Elsayed;
Instructor J. Stewart

Civil engineering is the application of mathematics, science, and engineering fundamentals for the benefit of society and the supporting infrastructure systems. Traditional civil engineering areas include:

- environmental engineering
(pollution control including the design of water and waste water facilities);
- water resources
(study of the flow of water over land, under ground and storage);
- transportation engineering
(design of highways and studies of traffic flow);
- structural engineering
(design of building, bridges and other related structures);
- geotechnical engineering
(study of soil behaviors, land slides and other topics).

The Civil Engineering Program offers a Bachelor of Science in Civil Engineering (BSCE) with specializations in the environmental, water resources, structural, and geotechnical areas. Other traditional areas such as materials and transportation are covered in the curriculum as well as a strong general education component. The faculty is involved in research, solving engineering problems in the community, and consulting work. These experiences are brought into the classroom so that the students can receive a well-rounded educational experience. This includes learning the engineering theory as well as the practical application of the theory to real-world problems.

The Civil Engineering Program was established in August 2008, and thus, the BSCE degree program is not yet accredited by ABET. In the interim period, students may obtain both the ABET-accredited BSE degree and the BSCE degree with little or no additional course requirements.

PROGRAM EDUCATIONAL OBJECTIVES

The educational objectives and program outcomes were developed by the Civil Engineering Advisory Council. The Civil Engineering Program objectives are:

1. Civil 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. The graduates will have specialized training in civil engineering 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.

The Civil Engineering Program outcomes define the knowledge, skills, attitudes, and behaviors that program graduates are expected to have by the time of graduation from the Civil Engineering Program. With respect to the first overall educational objective, graduates of the Civil 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 multidisciplinary 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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 civil engineering;
2. Graduates will be able to analyze and design a system, component, or process to meet desired environmental, geotechnical, structures, and water resources areas of civil engineering; and
3. Some graduates will have developed the necessary skills and knowledge to be accepted and be successful in a graduate education program.

The Civil Engineering Program has published educational objectives that are consistent with the institutional mission and ABET criteria, has a process that periodically documents and demonstrates that the objectives are based on the needs of the program's various constituencies, has an assessment and evaluation process that periodically documents and demonstrates the degree to which these objectives are attained, and uses the assessment results to improve the effectiveness of the program.

Major in Engineering Bachelor of Science in Civil Engineering

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements

Sem. Hrs.

Refer to the General Education Curriculum for the College of Engineering 37

Additional Support Courses:

Refer to the Additional Support Courses for the College of Engineering 19

Engineering Core Requirements:

Refer to the Engineering Core Requirements for the College of Engineering..... 33

Major Requirements:

In addition to the University requirements for all baccalaureate degrees, the Bachelor of Science in Civil Engineering degree requires that one of the two following conditions be met (1.) "C" or better in each course in the 43-hour Major Requirements or (2.) 2.5 or greater grade point average in the 43-hour Major Requirement listed below.

CE 2202, Civil Engineering Presentations	2
CE 2223, Plane Surveying	3
CE 3213, Structural Analysis I	3
CE 3223, Civil Engineering Materials	3
CE 3233, Structural Analysis II	3
CE 3253, Engineering Hydrology	3
CE 3263, Introduction to Environmental Engineering	3
CE 3273, Water and Waste Systems	3
CE 4223, Transportation Engineering	3
CE 4233, Foundation Engineering	3
CE 4243, Reinforced Concrete Design	3
CE 4253, Soil Mechanics	3
CE 4251, Soil Mechanics Laboratory	1
CE 4283, Structural Steel Design	3
ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3

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TOTAL 132

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Electrical Engineering Program

Professor R. Engelken, Director of Electrical Engineering; Associate Professor P. Mixon; Assistant Professor S. Kher

Electrical engineering is a broad field that cuts-across many other fields that utilize electrical energy: electrical/electronic devices, processes, and systems; computer systems; electromagnetic communications; and electrical control. Thus, there are numerous well-established subfields under electrical engineering, with new ones, including increasingly multidisciplinary areas of focus (for example, nano-electronics, alternative energy, and bio-electrical engineering) being added periodically. Since electrical, electronic, computer, and electromagnetic/optoelectronic energy, communications, components, systems, and processes undergird nearly every facet of modern society's infrastructure, the demand for electrical, electronic, computer, and related types of engineers is significant and increasing, and electrical engineering is a marketable, lucrative, geographically widespread, and fulfilling career.

An electrical engineering education and career build upon a strong foundation in mathematics, science, and engineering fundamentals, as well as, increasingly, strong laboratory/field, instrumentation, computer, problem solving, design, human relations, teamwork/leadership, economics, and communication knowledge and skills. Historically "non-technical" issues, such as global trade, ethics, litigation, aesthetics, and the environment, are also becoming increasingly important in an electrical engineering career. The Electrical Engineering Program has designed a curriculum to provide its students competence in and sensitivity to these areas. This is reflected in both the electrical engineering professional concentration area under the Bachelor of Science in Engineering (BSE) degree program, and in the Bachelor of Science in Electrical Engineering (BSEE) degree program. Student knowledge, capabilities, and professionalism are also enhanced through involvement in the ASU Student Branch of the Institute of Electrical and Electronics Engineers, student research and industrial internship opportunities, seminars, and a variety of other service, social, and professional activities.

ASU electrical engineering graduates can be found in nearly every type of engineering position and have excelled in their careers. Numerous ones have gone-on to acquire advanced degrees (master- and doctoral-level) at other institutions. Thus, the Electrical Engineering Program does an excellent job in educating its students for the challenges and opportunities associated not only with a successful engineering career, but also with being good scholars, citizens, and contributors to society.

As does the entire College of Engineering, the Electrical Engineering Program has a mechanism in place to periodically assess its effectiveness in meeting its educational objectives and student learning outcomes. This assessment process results in periodic modification to courses and the degree plan so as to better promote the achievement of the objectives and outcomes, themselves periodically formulated and revised, with the assistance of the Electrical Engineering Advisory Council, in relation to the evolving mission and resource base of the Program. This occurs within the context of the evolving needs of the region and nation, and the current state-of-the profession.

The Electrical Engineering Program was established in August 2008, and thus, the BSEE degree program is not yet accredited by ABET. In the interim period, students may obtain both the ABET-accredited BSE degree and the BSEE degree with little or no additional course requirements.

Major in Engineering Bachelor of Science in Electrical Engineering

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements

Sem. Hrs.

Refer to the General Education Curriculum for the College of Engineering..... 37

Additional Support Courses:

Refer to the Additional Support Courses for the College of Engineering 19

Engineering Core Requirements:

Refer to the Engineering Core Requirements for the College of Engineering..... 33

Major Requirements:

In addition to the University requirements for all baccalaureate degrees, the Bachelor of Science in Electrical Engineering degree requires that one of the two following conditions be met (1.) "C" or better in each course in the 43-hour Major Requirements or (2.) 2.5 or greater grade point average in the 43-hour Major Requirements listed below.

EE 3401, Electronics I Laboratory.....	1
EE 3403, Electronics I.....	3
EE 3313, Electric Circuits II.....	3
EE 3333, Digital Electronics I.....	3
EE 3343, Engineering Fields and Waves I.....	3
EE 3353, Continuous and Analog Systems.....	3
EE 4323, Electrical Machinery OR EE 4353, Power Systems.....	3
EE 4373, Electronics II OR EE 3363, Semiconductor Materials and Devices I.....	3
EE 4371, Intermediate EE Lab I OR EE 3303, Semiconductor/Optoelectronics Matl and Devices I Lab.....	1-3
EE 4383, Digital Electronics II, EE 4333, Communications Theory, OR EE 4313, Control Systems.....	3
***EE or Computer Science Electives.....	4
***Graphics, Programming, or Practical Elective.....	3
***Approved Electives.....	6
***Engineering Elective.....	4-2
	43
TOTAL	132

***Subject only to the program adviser's approval, these electives may be selected from any courses within the designated elective group that make a rational contribution to the student's personal and professional education.

Mechanical Engineering Program

Associate Professors B. Edgar, Director of Mechanical Engineering, P. Sherman; Assistant Professor S. Haran; Instructor L. Walker

The practice of Mechanical Engineering requires the ability to apply the principles of engineering, basic sciences, and mathematics (including multivariate calculus and differential equations) to model, analyze, design, and realize physical systems, components or processes. Mechanical Engineers must be able to work professionally in both thermal and mechanical systems areas as required in fields such as aerospace and automotive design, biomedical and biomechanical processes, engineering materials research, HVAC design, machinery design, manufacturing processes, power generation, and robotics.

The mission of the Mechanical Engineering Program is to provide quality educational opportunities, promote scholastic achievement, and to encourage creative as well as quantitative analytical methods for problem solving. This is accomplished through:

- effective classroom and laboratory instruction that stress sound engineering fundamentals;
- multiple thermal and mechanical design experiences in the laboratory, classroom, and through design competitions; and
- opportunities to participate in research, industrial internships, and in professional engineering societies through student membership.

The Mechanical Engineering Program offers a Bachelor of Science in Mechanical Engineering (BSME) which provides the educational foundation for graduates to pursue a wide range of career opportunities including service as a practicing engineer and pursuit of professional licensure; graduate study in engineering or other fields; or entrance into a professional school such as medicine or law.

The Mechanical Engineering Program was established in August 2008, and thus, the BSME degree program is not yet accredited by ABET. In the interim period, students may obtain both the ABET-accredited BSE degree and the BSME degree with little or no additional course requirements.

Major in Engineering Bachelor of Science in Mechanical Engineering

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level AFTER 30 HOURS *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements

Sem. Hrs.

Refer to the General Education Curriculum for the College of Engineering..... 37

Additional Support Courses:

Refer to the Additional Support Courses for the College of Engineering 19

Engineering Core Requirements:

Refer to the Engineering Core Requirements for the College of Engineering..... 33

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Major Requirements:

In addition to the University requirements for all baccalaureate degrees, the Bachelor of Science in Mechanical Engineering degree requires that one of the two following conditions be met (1.) "C" or better in each course in the 43-hour Major Requirements or (2.) 2.5 or greater grade point average in the 43-hour Major Requirements listed below.

ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3
ME 2502, Solid Modeling for Mechanical Engineers	2
ME 3504, Process Monitoring and Control.....	4
ME 3513, Mechanical Vibrations.....	3
ME 3533, Engineering Thermodynamics II	3
ME 4503, Fluid and Thermal Energy Systems	3
ME 4543, Machine Design	3
ME 4553, Heat Transfer	3
ME 4563, Introduction to Manufacturing Processes.....	3
ME 4573, Mechanical System Design.....	3
**Mechanical Engineering Elective.....	9
***Professional Development Elective.....	3
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	43
	<hr/>
TOTAL	132

** List of approved electives is available from Mechanical Engineering advisors and through the department office. All students must complete at least one thermal/fluid systems stem elective and one mechanical systems stem elective.

*** Subject only to advisor's approval. This elective may be selected outside the College of Engineering and must make a rational contribution to the student's personal and professional education goals.

Minor in Engineering

Sem. Hrs.

ENGR 1412, Software Applications for Engineers AND	
ENGR 1402, Concepts of Engineering or equivalents*	4
ENGR 2403, Statics	3
ENGR 2423 Electric Circuits I AND ENGR 2421 Electric Circuits I Laboratory OR	
ENGR 2413 Mechanics of Materials AND ENGR 2411 Mechanics of Materials Laboratory	4
Additional credit hours of other ENGR, CE, EE, or ME prefixed courses	
of 2000, 3000 or 4000 level courses **, ***, ****, *****	12
	<hr/>
TOTAL	23*****

*Equivalency will be decided by the minor advisor.

**These courses must include, at least, one additional regular engineering laboratory course selected from ENGR 2411, Mechanics of Materials Laboratory, ENGR 2421, Laboratory for Electric Circuits I, or any 3000 or 4000-level CE, EE, ENGR or ME laboratory course.

***No more than 4 credit hours of these additional 12 hours can be 2000-level.

**** No more than 3 credit hours of the 12 can be special problems, student research, independent study, internship, honors senior thesis, or other non-standard courses.

*****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 corequisite requirements for the engineering courses designated for the minor, as per the ASU Undergraduate Bulletin.

*****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 23 credit hours or has a grade point average of 2.5 or above over these courses.

We propose that each student declaring a minor do so as early in their education as possible and that each student have appointed by the appropriate engineering program director a designated engineering minor advisor in the College of Engineering who will recommend and approve in writing on a designated form any and all engineering courses taken by the student. It is expected that the student's primary academic advisor in his/her major will be informed of the courses recommended by the minor advisor and will consult with the minor advisor as appropriate before releasing the student's academic hold. The program will have sufficient flexibility that in some cases, individually planned hybrid specializations or those outside those currently offered as professional concentration areas for the B.S.-Engineering major (CE, EE, ME), can be accommodated by appropriate selection of courses.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

College of Fine Arts

Daniel J. Reeves, Dean

The mission of the College of Fine Arts is to provide nationally recognized innovative education, performances and programming in the visual and performing arts.

Arkansas State University's College of Fine Arts is the largest college of fine arts in the state. It comprises three departments: Art, Music and Theatre. Each has its own distinctive program, yet they share important common goals: to make students more aware of our intellectual and artistic heritage, to enhance abilities to think critically, to improve skills of effective communication, and to develop the rich potential of the artistically talented.

The College of Fine Arts offers intensive performance, technical, and studio training, studies in history and theory, and certified teacher preparation. Students can major or minor in each department and there are courses specifically designed for the non-major. In addition, the college also sponsors exhibitions, plays, concerts and recitals for the benefit of the entire campus and community. The College of Fine Arts complements the basic philosophy of the university, the importance of humanity, understanding, and expression.

Department of Art

Professor Curtis Steele, Chair; Professors Allen, Carlisle, Chaffee, Pendergrass, Rowe, Salvest; Associate Professors Vickrey; Assistant Professors Balducci, Gill, Gipson, Matthiessen, Norris, 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 in Graphic Design or the BFA in Art (with emphasis in Studio Art 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/ARTH/ARED 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

BFA/TRANSFER REVIEW POLICY

BFA review (ART 3330) 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. Students should enroll in ART 3330 after completing 30 hours of ART/ARTH courses and before completing 40 hours of ART/ARTH courses. Prerequisites are ART 1013, ART 1023, ART 1033, ART 1043, ARTH 2583, ARTH 2593, 9 hours additional studio/design courses. Students enrolled in the BFA programs must pass the BFA Review PRIOR to enrollment for 4000 level ART courses.

Transfer review (ART 3330) 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. Transfer students must enroll in ART 3330, BFA Review during the first semester of enrollment at ASU.

Major in Art Bachelor of Arts

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **ARTER 30 HOURS ***

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

Students with this major **must** take the following:

MUS 2503, Fine Arts-Musical **AND** THEA 2503, Fine Arts-Theatre

Language Requirement:

Sem. Hrs.

Foreign Language (French or German Preferred) 12

(Two years of a high school foreign language may be used to waive six semester hours of this requirement)

(No credit awarded for courses waived)

Major Requirements:

Sem. Hrs.

Art Major Core

ART 1013, Design I 3

ART 1023, Design II 3

ART 1033, Drawing I 3

ART 1043, Drawing II 3

ARTH 2583, Survey of Art History I 3

ARTH 2593, Survey of Art History II 3

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For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Emphasis Area (Select one of the two options):

Studio Art	Sem. Hrs.
ART 2013, Design III	3
ART 3033, Drawing III	3
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 4033, Advanced Drawing	3
ART 4611, Senior Thesis	1
Art History Electives	9
<hr/>	
	31

Electives: 23

Total 130

Art History

ART 4611, Senior Thesis	1
Art Electives	6
Art History Electives	24
History Electives	6
Philosophy and Aesthetics Electives	6
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	43

Electives: (second language requirement) 11

Total 130

**Major in Art
Bachelor of Fine Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements: Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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: Sem. Hrs.

Art Major Core	Sem. Hrs.
ART 1013, Design I	3
ART 1023, Design II	3
ART 1033, Drawing I	3
ART 1043, Drawing II	3
ART 2583, Survey of Art History I	3
ART 2593, Survey of Art History II	3
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	18

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Studio Art Core Sem. Hrs.

ART 2013, Design III	3
ART 3033, Drawing III	3
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 4033, Advanced Drawing	3
<hr/>	
	21

Emphasis Area (Select one of the two options):

Studio Art Sem. Hrs.

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).....		39
Art History Electives		9
ART 3330, BFA Review		0
Senior Exhibition		0
<hr/>		
		48

Total 133

Art Education

ARED 3803, Teaching Arts in the Elementary Grades	3
ARED 4073, Concepts in Art Education	3
ART 3073, Watercolor	3
ART 3330, BFA Review	0
ART 4330, Senior Exhibition	0
Art Studio Emphasis Area	15
Art History Electives	9
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	33

Professional Education Requirements:* Sem. Hrs.

* PSY 3703, Educational Psychology	3
SCED 2514, Introduction to Secondary Teaching	4
** SCED 4515, Instructional Design for Secondary Education	5
** EDAR 4523, Methods and Materials in the Teaching of Art.....	3
** SCED 4713, Educational Measurement with Computer Applications	3
** TIAR 4826, Teaching Internship in the Secondary School	12
SE 3643, The Exceptional Student in the Regular Classroom	3
<hr/>	
	33

* See Bachelor of Science in Education degree—College of Education
** Prerequisite: Admission to the Teacher Education Program

Additional General Requirements for Teacher Education:

SCOM 1203, Oral Communication	3
HLTH 2513, Principles of Personal Health	3
<hr/>	
	6

Total 157

NOTE: The College of Education may give new numbers for SCED 2514, SCED 4515 and TIAR 4826.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Graphic Design
Bachelor of Fine Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- C in ENG 1003 and ENG 1013 *
- BSE must have C in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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:

Sem. Hrs.

ART 1013, Design I	3
ART 1023, Design II	3
ART 1043, Drawing II	3
ART 1033, Drawing I	3
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
<hr/>	18

Studio Art Core:

Sem. Hrs.

ART 2013, Design III	3
ART 3033, Drawing	3
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 4033, Advanced Drawing	3
<hr/>	21

Graphic Design Requirements:

Sem. Hrs.

ART 2413, Graphic Design I	3
ART 2423, Graphic Design II	3
ART 2443, Introduction to Digital Design	3
ART 2453, Visual Thinking	3
ART 3330, BFA Review	0
ART 3413, Graphic Design III	3
ART 3423, Package Design	3
ART 3433, Illustration I	3
ART 3443, Graphic Design IV	3
ART 4363, Graphic Design Internship	3
ART 4403, Photography for the Graphic Designer I	3
ART 4423, Graphic Design V	3
ART 4463, Advances Digital Design	3
ART 4493, Portfolio Presentation	3
<hr/>	39

Additional Requirements:

Art History Electives (including ART 4573, History of Graphic Design)	9
<hr/>	
Total	133-136

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

**Major in Art Education
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- C in ENG 1003 and ENG 1013 *
- BSE must have C in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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
POSC 2103, Introduction to United States Government
PSY 2013, Introduction to Psychology

Art Major Core:

Sem. Hrs.

ART 1013, Design I	3
ART 1023, Design II	3
ART 1033, Drawing I	3
ART 1043, Drawing II	3
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
<hr/>	18

Studio Art Requirements:

Sem. Hrs.

ART 2013, Design III	3
ART 3033, Drawing III	3
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 4033, Advanced Drawing	3
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Additional Requirements:

Sem. Hrs.

ARED 3803, Teaching Arts in the Elementary Grades	3
ARED 4703, Concepts in Art Education	3
ART 3073, Watercolor	3
Art Studio Electives	6
Art History Electives	6
<hr/>	21

Professional Education Requirements:*

Sem. Hrs.

** EDAR 4523, Methods and Materials in the Teaching of Art	3
* PSY 3703, Educational Psychology	3
SCED 2514, Introduction to Secondary Teaching	4
** SCED 4515, Instructional Design for Secondary Education	5
** SCED 4713, Educational Measurement with Computer Applications	3
SE 3643, The Exceptional Student in the Regular Classroom	3
** TIAR 4826, Teaching Internship in the Secondary School	12
<hr/>	33

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

** Prerequisite: Admission to the Teacher Education Program

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Additional General Requirements for Teacher Education:

	Sem. Hrs.
HLTH 2513, Principles of Personal Health	3
SCOM 1203, Oral Communication	3
	6
Total	145-148

NOTE: The College of Education may change the numbers for SCED 2514, SCED 4515 and TIAR 4526.

Minor in Art*

	Sem. Hrs.
ART 1013, Design I	3
ART 1023, Design II	3
ART 1033 AND 1043, Drawing I and II	6
Upper-level electives in Art	9
	21
Total	21

Minor in Art History*

	Sem. Hrs.
ART 2583 AND 2593, Survey of Art History I and II	6
Upper Level Electives in Art History	12
	18
Total	18

Minor in Graphic Design*

	Sem. Hrs.
ART 1013, Design I	3
ART 1033, Drawing I	3
ART 2413, Graphic Design I	3
ART 2423, Graphic Design II	3
Upper-level electives in Graphic Design	9
	21
Total	21

*Courses used to meet the requirements for the major cannot be used to meet the requirements for the minor.

Department of Music

Professor Tom O'Connor, Chair; Professors Bartee, Dauer, Jorgensen, Miller, Ross; Associate Professors Collison, Carroll, Crist, Kyriakos, Oliver, Owen; Assistant Professors Bonner, Carey, Hatch, Horton, Shack Clark, Seay; Temporary Instructor Fiala.

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

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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

Language Requirement:

Sem. Hrs.

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:	Sem. Hrs.
MUS 1100, Recital Attendance (6 semesters).....	0
MUS 1511, 1521, AND 2511, MUS 2521, Aural Theory I-IV	4
MUS 1513, 1523, AND 2513, MUS 2523, Theory I-IV	12
MUS 1611, 1621, 2611, AND 2621, Keyboard Skills I-IV	4
MUS 2533, AND 3633, History of Western Music I, II	6
MUS Theory Electives (upper-level courses)	2
* Major Performance Area	9
* Music Ensemble	4
36-41	
*Minor:	Sem. Hrs.
(Minor must be approved by adviser)	18-21
*Electives:	Sem. Hrs.
(Number of hours determined by courses taken in foreign language and in the minor)	23-14
*Courses completed in this area must contribute to a total of 45 upper-level credits.	
Total	127-136

**Major in Music
Bachelor of Music**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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, MUS 2521, Aural Theory I-IV	4
MUS 1513, 1523, AND 2513, MUS 2523, Theory I-IV	12
MUS 1611, 1621, 2611, AND 2621, Keyboard Skills I-IV	4
MUS 2533, AND 3633, History of Western Music I, II	6
MUS 3232, Elementary Conducting	2
MUS 3422, 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	
MUSP 3113, (Major Applied Area) 6 semesters—upper level	
* MUSP 1111, (Secondary Applied Area) 4 semesters.....	4
58-59	

*These requirements will be piano for voice, composition, instrumental, and organ specialists; organ for piano specialists.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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:	
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 4131, 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:

FR 1013 and 1023, Elementary French I and II; OR GER 1013 and 1023, Elementary German I and II	6
MUED 4642, Piano Pedagogy	2
MUS 3130, Junior Recital (one-half)	0
MUS 4131, Senior Recital (full)	1
MUS 4151, Collaborative Piano (Piano majors only) two semesters	1
MUS 4223, Piano Literature	3
MUS 4512, Church Music (Organ majors only).....	2
MUSP 4151, Collaborative Piano (Piano majors only) two semesters	2
Music Electives (Organ majors 7; Piano majors 8)	7-8
Music Ensemble	4
29-30	
Total	133-138

Composition:

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**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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 (combined for a total of 3 credits).....	3
MUS 1341, 3341, Marching Band.....	4
MUS 1511, 1521, AND 2511, MUS 2521, Aural Theory I-IV.....	4
MUS 1513, 1523, AND 2513, MUS 2523, Theory I-IV.....	12
*MUS 1611, 1621, 2611, 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

* This requirement may be fulfilled by completion of: Elementary Piano Class I (MUS 1211) 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 MUSP 1112. Failure to pass this exam will indicate the need to repeat MUSP 1112 until such time as the exam can be passed.

Professional Education Requirements:*	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 Inst. Design.....	5
** SCED 4713, Educational Measurement with Computer Applications.....	3
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#:	Sem. Hrs.
HLTH 2513, Principles of Personal Health.....	3
PE Activity Elective.....	1
#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.	4
Total	147-151

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Major in Vocal Music Bachelor of Music Education

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 **OR** POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:

MUED 4613, Methods and Materials for Teaching Vocal Music in the Middle Grades.....	3
MUS 1100, Recital Attendance (6 semesters).....	0
MUS 1361, 3361, University Singers, OR MUS 1351, 3351, Concert Choir.....	7
MUS 1511, 1521, and 2511, MUS 2521, Aural Theory I-IV.....	4
MUS 1513, 1523, and 2513, MUS 2523, Theory I-IV.....	12
*MUS 1611, 1621, 2611, 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 3211 AND 3221, Diction I and II.....	2
MUS 3232, Elementary Conducting.....	2
MUS 3252, Choral 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, (Secondary Applied Area) 1 semester.....	1
+ MUSP 1112, (Major Applied Area) 3 semesters lower level.....	6
+ MUSP 3112, (Major Applied Area) 4 semesters upper level.....	8
* 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	60-61

+ Those students who declare voice as their major area will take a proficiency exam in singing at the end of the third semester of MUSP 1112. Failure to pass this exam will indicate the need to repeat MUSP 1112 until such time as the exam can be passed. There will also be an exit exam at the end of the final semester of applied voice study.
 ++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.

Professional Education Requirements:*

** EDMU 4643, Methods and Materials for Teaching Vocal Music.....	3
* PSY 3553, Educational Psychology.....	3
SCED 2514, Introduction to Secondary Education.....	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
** 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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Additional General Requirements for Teacher Education:

	Sem. Hrs.
HLTH 2513, Principles of Personal Health	3
PE Activity Elective	1
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.	4
Total	143-147

**Minor in Music
(Not for Teacher Certification)**

	Sem. Hrs.
Music Theory	8
MUS 1511, Aural Theory I	
MUS 1513, Theory I (prerequisite: MUS 1511 or permission of instructor)	
MUS 2511, Aural Theory II	
MUS 2513, Theory II	
Music History	5-6
MUS 2533, History of Western Music I	
MUS 3633, History of Western Music II	
MUS 4512, Church Music	
MUS 4543, History of Jazz	
Applied Music (composition, instrumental, keyboard, or voice-4 semesters in one performance area):	4
Music electives may be used to satisfy upper-level courses	6
Twelve hours must be upper level courses.	
Total	23-24

NOTE: Students who are able to pass examinations in music demonstrating competence beyond that required for entrance may be exempted from one or more college-level courses in the subject or subjects covered by the examinations, provided such demonstration of competence is confirmed by further successful study in residence in the same field.

Department of Theatre

Professor Bob Simpson, Chair; Professor M. Simpson; Assistant Professors Alley, Bohn, Foland, McLaughlin

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**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)**
- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

- BFA Theatre students **MUST** take:
- MUS 2503, Fine Arts-Musical **AND** ART 2503, Fine Arts-Visual

Major Requirements:

	Sem. Hrs.
THEA 1203, Introduction to Theatre	3
THEA 1213, Beginning Acting	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
THEA 2243, Stage Costume Construction	3
THEA 3223, Studies in Dramatic Literature	3
THEA 3252, Theatre Laboratory	12
THEA 4203, Stage Directing I	3
THEA 4263 AND THEA 4273, History of the Theatre I and II	6
THEA 4383, Senior Project	3

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Emphasis Area (Select one of the four options):

	Sem. Hrs.
Acting:	
MUSP 1111, Voice	2
THEA 2203, Voice and Movement for Theatre I	3
THEA 2213, Creative Improvisation	3
THEA 3213, Audition Techniques	3
THEA 3243, Stage Combat	3
THEA 3263, Acting Shakespeare	3
THEA 3273, Voice and Movement for Theatre II	3
THEA 4213, Acting on Camera	3
THEA 4253, Theatre Management	3
THEA 4283, Period Styles in Acting	3
THEA 4333, Advanced Acting	3
THEA 4343, Musical Theatre	3
Electives (adviser approval required)	3
Total	38

Design Technology:

	Sem. Hrs.
THEA 1223, Principles of Stage Design	3
THEA 2203, Voice and Movement for Theatre I	3
THEA 2253, Stage Management	3
THEA 2263, History of Costumes	3
THEA 4223, Scene Design	3
THEA 4233, Advanced Makeup Design	3
THEA 4243, Stage Costume Design	3
THEA 4253, Theatre Management	3
THEA 4303, Stage Lighting	3
THEA 4373, Special Problems: Computer Aided Design	3
THEA 4373, Special Problems: Scenic Painting	3
THEA 4413, Sound Design and Production for the Theatre	3
Electives (adviser approval required)	2
Total	38

Directing:

	Sem. Hrs.
THEA 1223, Principles of Stage Design	3
THEA 2203, Voice and Movement for Theatre I	3
THEA 2253, Stage Management	3
THEA 3213, Audition Techniques	3
THEA 3233, Play Analysis	3
THEA 3243, Stage Combat	3
THEA 3263, Acting Shakespeare	3
THEA 4253, Theatre Management	3
THEA 4283, Period Styles in Acting	3
THEA 4323, Stage Directing II	3
THEA 4413, Sound Design and Production for Theatre	3
Electives	5
Total	38

Musical Theatre:

	Sem. Hrs.
MUS 1211, Elementary Piano I	1
MUS 1413, Theory I	3
MUSP 1111, Voice	8
THEA 2203, Voice and Movement for Theatre I	3
THEA 2213, Creative Improvisation	3
THEA 2252, Introduction to Dance	2
THEA 2262, Dance: Tap	2
THEA 2272, Dance: Ballet	2
THEA 2282, Dance: Jazz	2
THEA 3213, Audition Techniques	3
THEA 4343, Musical Theatre	3
Elective (advisor approval required)	6
Total	38
Total	126

**Major in Theatre
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

BA Theatre students **MUST** take:

MUS 2503, Fine Arts-Musical **AND** ART 2503, Fine Arts-Visual

Major Requirements:

Sem. Hrs.

THEA 1203, Introduction to Theatre	3
THEA 1213, Beginning Acting	3
THEA 1223, Principles of Design	3
THEA 2203, Voice and Movement I	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
THEA 3223, Studies in Dramatic Literature	3
THEA 3252, Theatre Laboratory (must take twice)	4
THEA 4203, Stage Directing	3
THEA 4263 AND THEA 4273, History of the Theatre I and II	6
Total	31

Design Requirements:

Choose ONE of the following	3
THEA 4223, Scene Design	
THEA 4243, Stage Costume Design	
THEA 4333, Stage Lighting	
THEA 4413, Sound Design	

Theatre Electives: 6

Minor: 18-21

Electives: 6

Total 124

Minor in Theatre

Sem. Hrs.

THEA 1213, Beginning Acting	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
Upper Division Theatre Electives (no more than 4 hours of lab and 6 hours of summer theatre)	12
Total	21

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, Philosophy, 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 in Applied Science* degree in Law Enforcement. It also provides pre-professional advisement for law school as part of its Political Science, Philosophy, 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

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

GRADUATION REQUIREMENT

Bachelor of Science in Education

In addition to meeting the University Requirements for all Baccalaureate Degrees as presented by the University, and the Teacher Education Program Requirements as presented by the College of Education, all candidates for a Bachelor of Science in Education degree in the College of Humanities and Social Sciences must also have a grade point average of 2.50 on all work attempted overall, on work in the major field, and if a transfer student, on all work taken at this institution.

FOREIGN LANGUAGE REQUIREMENT

All candidates for the Bachelor of Arts degree in the College of Humanities and Social Sciences must demonstrate proficiency in a foreign language. This may be done in either of the following ways.

1. By completing the second semester of the intermediate year of foreign language at the college level. Students with no foreign language experience must enroll in the first semester of the elementary year and complete 12 hours of a single language. Students with some experience and proficiency should consult with a member of the language faculty about their readiness for more advanced courses. (No credit will be awarded for courses waived.)
2. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to completion of the second semester of the intermediate year of a foreign language at the college level.

Department of Criminology, Sociology and Geography

Professor Anthony Troy Adams, Chair; CRIMINOLOGY: Associate Professors Chu, Salinger; Assistant Professor Botts; Instructor Monroe; SOCIOLOGY: Associate Professors Donaghy, Hill; Assistant Professors Kulkarni, Williams; ANTHROPOLOGY: Professor Clements; Associate Professor Burns; Assistant Professor Morrow; GEOGRAPHY: Professor Stroud; Assistant Professor Coleman; 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Criminology
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:

	Sem. Hrs.
CRIM 1023, Introduction to Criminal Justice (Prerequisite for CRIM 4103).....	3
CRIM 3183, Institutional Corrections; OR CRIM 3193, Community Corrections	3
CRIM 3223, Police and Society.....	3
CRIM 3263, Criminology	3
CRIM 4103, Criminal Justice Systems.....	3
POSC 3183, Criminal Law and the Constitution	3
SOC 3293, Social Behavior.....	3
SOC 3383 AND 3381, Social Statistical Methods and Laboratory.....	4
SOC 4293, Methods of Social Research.....	3
Electives (choose 21 hours from the following).....	21
CRIM 2043, Community Relations	
CRIM 2253, Criminal Investigation	
CRIM 2263, Criminal Evidence and Procedure	
CRIM 3323, Juvenile Delinquency	
CRIM 4603, Special Problems	
CRIM 4703, Internship	
HIST 3583, 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 3273, Social Stratification	
SOC 3353, 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	

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Electives:

Choose 20 hours minimum, 12 of which must be taken from 3000 and/or 4000 level courses..... 14-29

Total 124

**Major in Forensic Science
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

BIO 2011 AND 2013, Biology of the Cell and Laboratory.....	4
CHEM 1013 AND 1011, General Chemistry and Laboratory	4
MATH 2204, Calculus I.....	4
PSY 2103, Intro to Psychology.....	3
SCOM 1203, Speech Communication	3
SOC 2213, Intro to Sociology.....	3

Major Requirements:

	Sem. Hrs.
BIO 4012 AND 4011, Microtechnique and Laboratory	3
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 AND 3111, Organic Chemistry II and Laboratory	4
CRIM 2253, Criminal Investigation	3
CRIM 2263, Criminal Evidence and Procedure	3
FOSC 411V, Forensic Science Internship/Research	4-6
FOSC 2013, Forensic Science Survey.....	3
FOSC 2113, Forensic Science Professional Practice	3
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
STAT 3233, Applied Statistics.....	3

Forensic Chemistry: CHEM 3054, CHEM 4204, CHEM 4224, CHEM 3154

Electives: 23 Minimum

CHEM 4243 and 4241, CHEM 4263, BIO 4633, FOSC 4271-3, CHEM 4353, CHEM 4254, BIO 3013 and 3011, ENVR 4121

Forensic Biology: BIO 3013 and 3011, CHEM 4243 and 4241, CHEM 4224, BIO 4213 and 4211,

Electives: 23 Minimum

BIO 4104, BIO 4133 and 4131, BIO 4011 and 4012, CHEM 4243 and 4241, CHEM 3054, FOSC 4271-3, ENVR 4121

Electives:

32-38

Total 128

**Major in Geography
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 **OR** POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Language Requirement:

Foreign Language (Refer to index for foreign language requirements) 0-12

Major Requirements:

	Sem. Hrs.
SOC 3381, Social Statistics Laboratory	1
SOC 3383, Social Statistics	3
GEOG 2613, Introduction to Geography	3
GEOG 3603, World Regional Geography	3
GEOG 3643, 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 3613 Geography of the United States and Canada	
GEOG 3683 Economic Geography	
GEOG 3743 Introduction to Land Use 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 470V 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 4363 Environmental Sociology	
SOC 4373 Sustainable Development in Modern Society	
	43

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.

**Crime Scene Investigation
Associate in Applied Science**

General Education Requirements:

	Sem. Hrs.
CIT 1503, Microcomputer Applications* OR CS 1013, Introduction to Computers*	3
(*May be substituted with "Computer Applications" offered by CS)	
ENG 1003, Composition I.....	3
ENG 1013, Composition II.....	3
MATH 1023, College Algebra	3

Select 18 hours from the following general education courses:

- ANTH 2233, Cultural Anthropology **OR** SOC 2213, Principles of Sociology
- BIOL 1003, Biological Sciences **OR** BIO 2203, 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

30 hrs.

Criminal Justice Institute Coursework

35-38 hrs.

Total Program Requirement

65-68 hrs.

**Law Enforcement Administration
Associate in Applied Science**

General Education Requirements:

	Sem. Hrs.
BIOL 1003, Biological Sciences OR BIO 2203, Human Anatomy and Physiology I (labs not required).....	3
CIT 1503, Microcomputer Applications* OR CS 1013, 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

30 hrs.

*May be substituted with "Computer Applications" offered by CS

Criminal Justice Institute Coursework

39 hrs.

Total Program Requirements

69 hrs.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Law Enforcement
Associate in Applied Science**

General Education Requirements:	Sem. Hrs.
ENG 1003, Composition I.....	3
ENG 1013, Composition II.....	3
BIOL 1003 AND 1001, Biological Science and Laboratory.....	4
CIS 1043, Introduction to Computers.....	3
PHSC 1203 AND 1201, Physical Science and Laboratory; OR CHEM 1013 AND 1011, General Chemistry I and Laboratory; OR PHYS 2053 AND 2051, General Physics I and Laboratory.....	4
HIST 1013, World Civilization To 1660; OR HIST 1023, World Civilization Since 1660.....	3
HIST 2763, The United States To 1876; OR HIST 2773, The United States Since 1876; OR POSC 2103, Introduction to United States Government.....	3
MATH 1023, College Algebra.....	3
MS 1011, MSI—Expedition Leadership and Mountaineering, AND PE 1002, Concepts of Fitness.....	2
PSY 2013, Introduction to Psychology; OR ANTH 2233, Introduction to Cultural Anthropology; OR ECON 2333, Economic Issues and Concepts; OR ECON 2313, Principles of Macroeconomics.....	3
Total	31
Major Requirements:	Sem. Hrs.
CRIM 1023, Introduction to Criminal Justice.....	3
CRIM 2043, Community Relations.....	3
CRIM 2263, Criminal Evidence and Procedure.....	3
CRIM 3223, Police and Society.....	3
CRIM 3263, Criminology; OR CRIM 3323, Juvenile Delinquency.....	3
HLTH 2522, First Aid and Safety.....	2
POSC 3113, American Municipal Government.....	3
SCOM 1203, Oral Communication.....	3
SOC 2213, Principles of Sociology.....	3
Criminology Elective.....	3
Total	29
Electives:	Sem. Hrs.
Total	2
Total	62

**Major in Sociology
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:	Sem. Hrs.
First Year Making Connections Course (or equivalent) HIST 2763, HIST 2773 OR POSC 2103 At least one HIST course in the General Education Core Courses 'C' in ENG 1003 and ENG 1013 * BSE must have 'C' in MATH 1023 45 Upper Level AFTER 30 HOURS * 124 Earned Credit Hours * 18 of the Last 24 Hours at ASU * 32 Residence Hours * 57 Hours with Accredited Senior Institutions * 2.00 in ASU Coursework and Major Coursework * 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.	
*ASU Minimum	
General Education Requirements:	Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees.....	46-49
NOTE: SOC 2213, Prin. of Sociology, will not be accepted to fulfill General Education Requirements for this major.	
Language Requirement:	Sem. Hrs.
Foreign Language (Refer to index for foreign language requirements).....	0-12
Major Requirements:	Sem. Hrs.
SOC 2213, Principles of Sociology.....	3
SOC 2223, Social Problems.....	3
SOC 3383 AND 3381, Social Statistics AND Laboratory.....	4
SOC 4243, Social Theory.....	3
SOC 4293, Methods of Social Research.....	3
SOC 4323, Applied Research.....	3
Political Science Elective.....	3
Psychology Elective.....	3
Sociology Electives.....	15
Total	40

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Electives:	Sem. Hrs.
Total	124

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 3223, Police and Society	
CRIM 3263, Criminology; OR CRIM 3323, Juvenile Delinquency	
CRIM 4103, Criminal Justice Systems	
Total	18

Minor in Geography

	Sem. Hrs.
Electives in Geography.....	3
Upper-level Electives in Geography.....	15
Total	18

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 4553, Capstone in Homeland Security and Disaster Preparedness.....	3
Choice of three (3) courses from within a single track.....	9
Track 1: Healthcare in Homeland Security and Emergency Preparedness	
NRS 4513, Physical Care of Victims of Chemical, Biological, Radiological and Nuclear Disasters	
NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness	
NRS 4533, Evidence Based Practice -- Operations and Management	
SW 4203, Crisis Intervention	
Track 2: Managing Disaster and Crisis	
POSC 4133, Intergovernmental Relations -- Federalism in an Era of Insecurity	
POSC 4513, Disaster Response -- Operations and Management	
PR 4603, Crisis Communication	
SOC 4343, GIS for Social Sciences	
Track 3: Social, Cultural & Political Factors	
SOC 3363, Sociology of Religion or SW 4363, Religion and Spirituality in Social Work Practice	
SOC 4003, Perspectives on Death and Dying	
SOC 4063, Sociology of Disasters	
SOC 4263, Terrorism as a Social Movement	
Total	15
Choice of one (1) course from one of the other two tracks.....	3
Total	18

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Minor in Interdisciplinary Family Studies

FAMILY CORE

Interdisciplinary Course:* (3 hours required).....	3
(Student should complete a minimum of twelve hours in the minor before registering for the Interdisciplinary course)	
NRS 4053 or ECH 4053	
PSY 4053	
SOC 4053	
Sociology: (3 hours required).....	3
SOC 3223, Sociology of Marriage and Family	
SOC 3213, Sociology of Intimate Relationships	
Human Development: (3 hours required).....	3
PSY 3403, Child Psychology	
PSY 3413, Adolescent Psychology	
Families in Social Contexts: (3 hours required).....	3
SW 3313, Introduction to Child Welfare	
SW 3343, Child Abuse and Neglect	
Family and Health: (3 hours required).....	3
HLTH 3563, Human Sexuality	
NRS 2203, Basic Human Nutrition	
NRS 3353, Aging and the Older Adult	
Special Interest Option: (3 hours required).....	3
An additional 3 hours may come from any of the courses listed above or from an approved special topics/independent study course/or a one-time special course offered out of another discipline.	
This option allows students the opportunity to explore specific areas of interest.	

* The Interdisciplinary Course may only be completed once for credit, regardless of prefix.

Total 18

Minor in Sociology

	Sem. Hrs.
Electives in Sociology (in addition to SOC 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; Associate Professors Burns, Chappel, Collins, Hendershot, Lamm, Moore, Narey; Assistant Professors Gennuso, Hansen, Horneker, Hunter, Spaniol; Instructors Bridges, 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Writing Clinic

The department offers a special free service to students at all levels: a writing laboratory designed to help students with individual problems. Contact the department office for details.

Major in English Bachelor of Arts

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses
C* in ENG 1003 and ENG 1013 *
BSE must have C* in MATH 1023
45 Upper Level AFTER 30 HOURS *
124 Earned Credit Hours *
18 of the Last 24 Hours at ASU *
32 Residence Hours *
57 Hours with Accredited Senior Institutions *
2.00 in ASU Coursework and Major Coursework *
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:

	Sem. Hrs.
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	
ENG 3233, Shakespeare	
ENG 3243, British Drama to 1800	
ENG 3263, British Literature Since 1800	
ENG 3293, British Novel	
ENG 4183, Renaissance Drama Excluding Shakespeare	
ENG 4213, Medieval Literature	
ENG 4223, Milton	
ENG 4233, Sixteenth-Century Literature	
ENG 4243, Seventeenth-Century Literature	
ENG 4253, Restoration and Neoclassical Literature	
ENG 4263, Romantic Literature	
ENG 4273, Victorian Literature	
ENG 4283, Modern British Literature	
American Literature (Two courses from the following):.....	6
ENG 3323, American Literature to 1865	
ENG 3363, American Literature Since 1865	
ENG 3373, Regional American Literature	
ENG 3393, American Novel	
ENG 4333, American Romanticism	
ENG 4353, American Realism and Naturalism	
ENG 4373, Modern American Literature	
Multicultural Literature (One course from the following):	3
ENG 3633, Native American Verbal Art	
ENG 3643, African-American Folklore	
ENG 4383, Minority Literature	
ENG 4363, African-American Literature	
ENG 4473, Women Writers	
Global Literature (One course from the following):	3
ENG 3423, Contemporary Prose	
ENG 3433, Modern and Contemporary Drama	
ENG 3443, Contemporary Poetry	
ENG 3453, World Literature	
Theory, Writing, and Language	6
ENG 4103, Introduction to Contemporary Literary Theory	

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

And one course from the following:	3
ENG 3003, Advanced Composition	
ENG 3023, Creative Writing	
ENG 3043, Technical Writing	
ENG 3613, Introduction to Folklore	
ENG 4023, Advanced Creative Writing	
ENG 4053, The English Language	
ENG 4063, Comparative Modern Grammars	
ENG 4083, Introduction to Linguistics	
ENG 4113, Genre Studies	
ENG 4623, Mythology	

Optional Concentration in Writing	9
<i>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:</i>	
ENG 3003, Advanced Composition	
ENG 3023, Creative Writing	
ENG 3043, Technical Writing	
ENG 4023, Advanced Creative Writing	

Electives:	Sem. Hrs.
English B.A. majors are encouraged to develop a strong outside area of concentration	27-42
Total	124

Major in Philosophy Bachelor of Arts

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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.
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	
PHIL 3423, Philosophy of Science	
PHIL 4403, Metaphysics	
Ethics/Value Theory—one of the following courses:	3
PHIL 3713, Ethics in the Health Professions	
PHIL 3723, Computers, Ethics, and Society	
PHIL 4703, Contemporary Ethics	
PHIL 4723, Aesthetics	
Upper-level Philosophy Electives	12

Electives:	Sem. Hrs.
	33-48
Total	124

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Major in English Bachelor of Science in Education

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:
 HIST 2763, The U.S. To 1876; OR HIST 2773, The U.S. Since 1876
 POSC 2103, Introduction to United States Government
 PSY 2013, Introduction to Psychology

Major Requirements:

Sem. Hrs.	
American literature	6
British literature	3
ENG 2103, Introduction to Poetry and Drama	3
ENG 2113, Introduction to Fiction	3
ENG 3003, Advanced Composition	3
ENG 3233, Shakespeare; OR ENG 3243, British Drama before 1880	3
ENG 3583, Literature for Adolescents	3
ENG 4053, The English Language; OR ENG 4083, Introduction to Linguistics	3
ENG 4063, Comparative Modern Grammars	3
ENG 4043, Theory in the Teaching of Composition	3
Upper-level English Electives	6
Total	39

Professional Education Requirements:*

Sem. Hrs.	
** EDEN 4553, Methods and Materials for Teaching English in the Secondary School	3
* PSY 3703, Educational Psychology	3
SCED 2514, Introduction to Secondary Education	4
** 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
 ** Prerequisite: 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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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. Students must also complete courses from two of the three main research areas of Psychology, Philosophy and Biology.

Core Curriculum:	Sem. Hrs.
COGS 2403, Introduction to Cognitive Science	3
Additional fifteen (15) hours from the courses listed below.....	15
BIO 3033, Evolution	
BIO 3323 AND 3231, Animal Physiology and Laboratory	
BIO 4133 AND 4131, Cell Biology and Laboratory	
ECH 4033, Learning and Development of Young Children	
PHIL 4403, Metaphysics	
PHIL 4443, Philosophy of Mind	
POSC 4003, Political Psychology	
PSY 3043, Child Psychology	
PSY 3303, Motivation	
PSY 3413, Adolescent Psychology	
PSY 3453, Developmental Psychology	
PSY 4323, Physiological Psychology	
PSY 4363, Cognitive Psychology	
SOC 3293, Social Behavior	
SOC 4213, Sociology of Childhood and Adolescence	
Total	18

Minor in English

	Sem. Hrs.
ENG 2103, Introduction to Poetry and Drama.....	3
ENG 2113, Introduction to Fiction.....	3
English elective in British Literature.....	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 Folksong	
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

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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 15 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 / POSC 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 4323, 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, Hogue, Hronek, Maynard, Pobst, Wilkerson-Freeman; Assistant Professors Edwards, Hu, Jones-Branch, 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in History
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Language Requirement:

Foreign Language (Refer to index for foreign language requirements) 0-12

Major Requirements:

HIST 1013 AND HIST 1023 (one course may also be counted in General Education).....	3-6
HIST 2763 AND HIST 2773 (one course may also be counted in General Education).....	3-6
HIST 3333, The Practice of History.....	3
HIST 4803, Senior History Seminar.....	3
*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
	<hr/> *42-48

Electives:

Must include 12 hours at Junior/Senior level	15-36
	<hr/> TOTAL 124

NOTE: The Department of History recommends that its majors select a minor in a field approved by their academic advisor.

**Major in Social Science
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

Students with this major **must** take the following:
 POSC 2103, Introduction to United States Government
 PSY 2013, Introduction to Psychology

Major Requirements:

HIST 3083, Arkansas History.....	3
HIST 3333, The Practice of History.....	3
HIST 4312, Computer Technologies for the History/Social Sciences Educator.....	2
POSC 3193, Arkansas Government and Politics.....	3
Economics.....	3
Geography.....	6
Political Science (Junior/Senior Level).....	3
Sociology.....	3
United States History (includes HIST 2763 and 2773 and 9 hours of Junior/Senior level courses).....	15
World History (Junior/Senior level).....	6

At least 29 of the 47 hours required for the major must be upper-level courses

47

Professional Education Requirements:*

EDSS 4603, Methods and Materials for Teaching Social Studies in the Secondary School.....	3
PSY 3703, Educational Psychology.....	3
** SCED 2514, Introduction to Secondary Teaching.....	4
*** SCED 4515, Performance Based Instructional Design.....	5
SCED 4713, Educational Measurement with Computer Applications.....	3
SE 3643, The Exceptional Student in the Regular Classroom.....	3
TIHI 4825, Teaching Internship in the Secondary School.....	12

33

Additional Requirement for Teacher Education:

HLTH 2513, Principles of Personal Health.....	3
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3

* See Bachelor of Science in Education Requirements—College of Education
 ** Prerequisite to all other professional education course work
 *** Prerequisite to EDSS 4603: see adviser

Total 127

All BSE Social Science candidates must take the appropriate Praxis Series Exams required for licensure in Arkansas and report their test results to the Department of History before graduation.

Minor in History

History Electives.....	6
Upper-level United States History Electives.....	6
Upper-level European or World History Electives.....	6
	<hr/> Total 18

Minor in United States History

United States History Electives.....	6
Upper-level United States History (through 1876) Electives.....	6
Upper-level United States History (after 1876) Electives.....	6
	<hr/> Total 18

Minor in African-American Studies

	Sem. Hrs.
HIST 3673, African American History I.....	3
HIST 3683, African American History II.....	3
At least one of the following:.....	3
ENG 3643, African American Folklore	
ENG 4363, African American Literature Survey	
HIST 3853, The U.S. Civil Rights Movement	
POSC 3163, Black Politics	
African American Studies electives.....	9
ENG 3643, African American Folklore	
ENG 4363, African American Literature Survey	
ENG 4383, Minority Literature	
HIST 3103, Civilizations of Africa	
HIST 3853, The U.S. Civil Rights Movement	
JOUR 4323, Race, Gender and Media	
PHIL 4773, Defining Race	
POSC 3163, Black Politics	
POSC 3213, African Political Systems	
SCOM 4253, Intercultural Communications	
SOC 3353, Minority Groups	
Total	18

Minor in Medieval Studies

	Sem. Hrs.
ENG 4213, Medieval Literature.....	3
HIST 3183, Medieval Europe.....	3
HIST 3193, The Crusades.....	3
PHIL 3213, History of Ancient and Medieval Philosophy.....	3
Electives.....	6
ART 4533, Renaissance Art History	
ART 4553, Early Christian through Gothic Art History	
HIST 4213, History of England, 55 B.C. to A.D. 1689	
HIST 3223, Renaissance and Reformation Europe	
POSC 3413, Classical and Medieval Political Theory	
OR Independent study course approved by major adviser (maximum 3 hours)	
Total	18

Minor in Modern European Studies

	Sem. Hrs.
GEOG 3713, Geography of Europe and the Former USSR Lands.....	3
POSC 3223, European Political Systems.....	3
European History electives.....	9
Three of the following courses:	
HIST 3253, Modern Europe, 1750-1870	
HIST 3273, Age of Crisis: Europe, 1870 to Present	
HIST 3283, Society and Thought in Europe	
HIST 4123, Soviet Russia	
HIST 4223, History of Great Britain 1688-1982	
HIST 4253, Rise of Modern Germany	
Elective.....	3
One of these courses:	
ENG 3263, British Literature since 1800	
ENG 4283, Modern British Literature	
FR 3613, French Civilization	
GER 3173, German Civilization	
PHIL 3223, History of Modern Philosophy	
POSC 4213, Politics of the Former Soviet Lands OR History course from the list above	
Total	18

Department of Languages

Associate Professor Arnold, Chair; Associate Professors Baum, Johnson, Lombeida, Owens; Assistant Professor Gil-Osle; Instructor Romero.

Courses offered in foreign languages are designed to train students to read, write, speak, and understand the target language; to acquaint them with the literature and culture of the countries where the target language is spoken; to provide a lingual tool necessary in many professions; and to afford a source of literary and aesthetic pleasure. The department has a multimedia language laboratory where students may practice oral, aural, and writing skills.

Major in French Bachelor of Arts

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

Major Requirements:

	Sem. Hrs.
FR 3013, French Phonetics OR FR 4503, Special Topics.....	3
FR 3183, French Conversation.....	3
FR 3203, Advanced French Conversation OR FR 3703, French for International Business.....	3
FR 3463, Advanced French Grammar.....	3
FR 3473, French Composition.....	3
FR 3613, French Civilization OR FR 3623, Contemporary France.....	3
FR 4413, Survey of French Literature I.....	3
FR 4423, Survey of French Literature II.....	3
FR 4503, Special Topics.....	3
Other upper-level class not taken (except FR 3023), or repeated FR 4503, Special Topics (when topic varies).....	3
Total	30

Electives:

	Sem. Hrs.
	46-49
Total	124

**Major in Spanish
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Major Requirements:

	Sem. Hrs.
SPAN 3013, Spanish Phonetics	3
SPAN 3183, Spanish Conversation.....	3
SPAN 3203, Spanish Conversation II.....	3
SPAN 3303, Grammar and Composition I.....	3
SPAN 3403, Grammar and Composition II.....	3
SPAN 3413, Introduction to Hispanic Literature	3
SPAN 4443, Survey of Latin American Literature.....	3
Select one of the following:	3
SPAN 3623, Culture and Civilization: The Américas	
SPAN 3633, Culture and Civilization: Spain	
Select one of the following:	3
SPAN 4413, Survey of Peninsular Spanish Literature	
SPAN 4423, Contemporary Peninsular Spanish Literature	
Major Electives: Select two (2) from the following:.....	6
SPAN 3703, Spanish for International Business	
SPAN 4503 Special Topics (may be repeated for credit if offered)	
SPAN classes from either of the two "Select one" categories not already taken for degree credit	
Total	33

Electives:

	Sem. Hrs.
	42-45
Total	124

**Major in French
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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
 POSC 2103, Introduction to United States Government
 PSY 2013, Introduction to Psychology

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Major Requirements:

	Sem. Hrs.
FR 3013, French Phonetics.....	3
FR 3183, French Conversation.....	3
FR 3203, Advanced French Conversation	3
FR 3463, Advanced French Grammar	3
FR 3473, French Composition	3
FR 3613, French Civilization OR FR 3623, Contemporary France	3
FR 4413, Survey of French Literature I.....	3
FR 4423, Survey of French Literature II.....	3
FR 4503, Special Topics.....	3
Other upper-level class not taken (except FR 3023 or 3703), or repeated FR 4503, Special Topics (when topic varies)	3
Total	30

Professional Education Requirements:*

	Sem. Hrs.
EDLA 4633, Methods and Materials for Teaching Foreign Languages in the Secondary School	3
ELSE 3643, Exceptional Student in the Regular Classroom.....	3
PSY 3703, Educational Psychology	3
** SCED 2514, Introduction to Secondary Teaching (with lab).....	4
*** SCED 3515, Performance Based Instructional Design (with lab)	5
SCED 4713, Educational Measurement with Computer Applications	3
TILA 4826, Teaching Internship in the Secondary School	12

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

** Prerequisite to all other professional education course work

*** Prerequisite to EDLA 4633

An advisory Oral Proficiency Interview (OPI) must be completed before admission to this teacher education program, and an official OPI must be completed prior to the teaching internship. A level of Intermediate-mid must be attained for admission to the teacher education program, and a level of advanced-low must be reached prior to graduation.

Additional General Requirements:

	Sem. Hrs.
HLTH 2513, Principles of Personal Health	3
SCOM 1203, Oral Communication	3

6

Electives:

	Sem. Hrs.
	6-9
Total	124

**Major in Spanish
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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
 POSC 2103, Introduction to United States Government
 PSY 2013, Introduction to Psychology

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Major Requirements:	Sem. Hrs.
SPAN 3013, Spanish Phonetics	3
SPAN 3183, Spanish Conversation I	3
SPAN 3203, Spanish Conversation II	3
SPAN 3303, Grammar and Composition I	3
SPAN 3403, Grammar and Composition II	3
SPAN 3413, Introduction to Hispanic Literature	3
SPAN 4443, Survey of Latin American Literature	3
SPAN 3623, Culture and Civilization: The Americas OR SPAN 3633, Culture and Civilization: Spain	3
SPAN 4413, Survey of Peninsular Spanish Lit. OR SPAN 4423, Contemporary Peninsular Spanish Lit.	3
Major Electives: Select two (2) from the following:	6
SPAN 3703, Spanish for International Business	
SPAN 4503 Special Topics (may be repeated for credit if offered)	
SPAN classes from either of the two "Select one" categories not already taken for degree credit	
	33

Professional Education Requirements:*	Sem. Hrs.
EDLA 4633, Methods and Materials for Teaching Foreign Languages in the Secondary School	3
ELSE 3643, Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
** SCED 2514, Introduction to Secondary Teaching (with lab)	4
*** SCED 3515, Performance Based Instructional Design (with lab)	5
SCED 4713, Educational Measurement with Computer Applications	3
TILA 4826, Teaching Internship in the Secondary School	12
	33
* See Bachelor of Science in Education Requirements—College of Education	
** Prerequisite to all other professional education course work	
*** Prerequisite to EDLA 4633	
An advisory Oral Proficiency Interview (OPI) must be completed before admission to this teacher education Program, and an official OPI must be completed prior to the teaching internship. A level of Intermediate-low must be attained for admission to the teacher education program, and a level of advanced-low must be reached prior to graduation.	

Additional General Requirements:	Sem. Hrs.
HLTH 2513, Principles of Personal Health	3
SCOM 1203, Oral Communication	3
	6

Electives:	Sem. Hrs.
	3-6
Total	124

Minor in French

	Sem. Hrs.
FR 2023, Intermediate French II	3
FR 3183, French Conversation	3
FR 3463, Advanced French Grammar	3
FR 3613, French Civilization OR FR 3623, Contemporary France	3
FR 4413, Survey of French Literature I OR FR 4423, Survey of French Literature II	3
Upper-level Elective (excluding FR 3023, FR 4601-2-3)	3
Total	18

Minor in German

	Sem. Hrs.
GER 2013, Intermediate German I	3
GER 2023, Intermediate German II	3
GER 3163, Advanced Grammar and Composition	3
GER 3173, German Civilization	3
GER 3183, German Conversation	3
GER 3413, Introduction to German Literature	3
Total	18

Minor in International Studies

The Minor in International Studies aims to provide students from across the campus the opportunity to understand better in an interdisciplinary context some of the complexities of our global society. Particularly suited for students in History, Political Science, English, Languages, and International Business, the minor draws on existing offerings in these and other departments, and also provides a forum for interdisciplinary seminars and specialized courses that focus on international issues.

Note: Certain courses from this list may be offered infrequently. Consult the Chair of the relevant department if you have questions on when a course will be offered.

Requirements:

12 Hours from the following. No more than two courses may have the same prefix.

ART 4301, Studies in Art History	HIST 4143, The Rise of Modern China
ART 4533, Renaissance Art History	HIST 4153, The Rise of Modern Japan
ART 4543, Modern Art History	HIST 4213, History of England 55 BC to AD 1689
ART 4553, Early Christian through Gothic Art History	HIST 4223, History of Great Britain, 1688 to 1982
ART 4563, Baroque and Rococo Art	HIST 4253, The Rise of Modern Germany
ARTH 4583, Non-Western Art History	HIST 4273, History of Mexico
ECON 3343, Comparative Economic Systems	HIST 4553, History of Medicine
ECON/IB 4103, International Trade	HIST 4593, Special Topics in World History
ENG 3423, Contemporary Prose	IS 4133, International Law
ENG 3433, Modern and Contemporary Drama	IB 4273, Special Problems
ENG 3443, Contemporary Poetry	IS 4503, Special Topics
ENG 3453, World Literature	IS 4803, Independent Study
ENG 3613, Introduction to Folklore	MGMT 4123, International Management
ENG 4113, Genre Studies	MKTG 4113, International Marketing
FIN/IB 3813, International Financial Mgmt and Banking	RTV 4063, International Communication Seminar
GEOG 3603, World Regional Geography	PHIL 3623, Eastern Philosophy
GEOG 3643, Introduction to Cultural Geography	POSC 3203, Introduction to Comparative Politics
GEOG 3703, Political Geography	POSC 3213, African Political Systems
GEOG/SOC 4223, Urban Geography	POSC 3223, European Political Systems
HIST 3013, Civilizations of Africa	POSC 3233, Chinese Political Systems
HIST 3123, Latin America, The Colonial Period	POSC 3303, Introduction to International Policies
HIST 3133, Latin America, The National Period	POSC 3313, American Foreign Policy
HIST 3223, Renaissance and Reformation Europe	POSC 3323, American National Defense Policies
HIST 3233, Age of Science and Reason	POSC 4213, Politics of the Former Soviet Lands
HIST 3253, Modern Europe, 1750-1870	POSC 4223, Middle Eastern Political Systems
HIST 3273, The Age of Crisis: Europe, 1870 to Present	POSC 4313, International Organization
HIST 3283, Society and Thought in Europe	PSY 3613, Cultural Psychology
HIST 3303, The Modern History of the Middle East	SCOM 4253, Intercultural Communication
HIST 4113, Imperial Russia	SOC 4273, Population and Demography
HIST 4123, Soviet Russia	or other courses approved by International Studies Advisor

6 hours from the following. Both courses must have the same prefix.

Note: FR/GER/SPAN 2023, Intermediate II, or FR/SPAN 2036, Accelerated Intermediate I and II, or equivalent preparation, are prerequisites to all courses.

FR 3613, French Civilization	SPAN 3413, Introduction to Hispanic Literature
FR 3623, Contemporary France	SPAN 3623, Culture and Civilization: The Americas
FR 4413, Survey of French Literature I	SPAN 3633, Culture and Civilization: Spain
FR 4423, Survey of French Literature II	SPAN 4413, Survey of Peninsular Spanish Literature
FR 4530, Special Topics	SPAN 4423, Contemporary Spanish Literature
FR 4803, Independent Study in French	SPAN 4443, Survey of Latin American Literature
GER 3173, German Civilization	SPAN 4503, Special Topic
GER 3413, Introduction to German Literature	SPAN 4803, Independent Study in Spanish
GER 4803, Readings in German	or other courses approved by International Studies Advisor

TOTAL REQUIRED HOURS 18

NOTE: Any student who completes the necessary courses may declare this minor and have it appear on the transcript. Each Department which offers a course included in the minor will determine for its own majors whether courses taken for their minor can also count toward their major.

Minor in Spanish

	Sem. Hrs.
SPAN 2023, Intermediate Spanish II.....	3
SPAN 3183, Spanish Conversation I.....	3
SPAN 3303, Grammar and Composition I.....	3
SPAN 3413, Introduction to Hispanic Literature.....	3
SPAN 3623, Culture and Civilization: The Americas.....	3
Spanish Elective.....	3
Total	18

Department of Political Science

Associate Professor Richard Wang, Chair; Professors Hartwig; Associate Professors Harding, Reese; Assistant Professors Hacker, Levenbach, Lofton, McLean, Miller, Tusalem; Visiting Assistant Professor Loadman.

The Department of Political Science provides students with the information and the intellectual stimulus needed to cope with the problems of modern politics.

A concrete orientation toward specific careers is provided by a program of coursework that prepares students for law school as well as careers in politics, public and foreign service, teaching, journalism, and business. Individual courses focus on urban, state, national, and international government—the executive, judicial, and legislative branches; the politics of Europe, Africa, Mideast, and East Asia; and the theoretical presuppositions underlying political differences within and between nations.

**Major in Political Science
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSE must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees.....	Sem. Hrs. 46-49
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NOTE: POSC 2103 will not be accepted to fulfill General Education Requirements in this major.

Language Requirement:

Foreign Language (Refer to index for foreign language requirements).....	Sem. Hrs. 0-12
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Major Requirements:

POSC 2103, Introduction to United States Government.....	Sem. Hrs. 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.)	42

Electives:

	Sem. Hrs. 21-36
TOTAL	124

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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 4553, Capstone in Homeland Security and Disaster Preparedness.....	3
Choice of three (3) courses from within a single track	9

Track 1: Healthcare in Homeland Security and Emergency Preparedness

- NRS 4513, Physical Care of Victims of Chemical, Biological, Radiological and Nuclear Disasters
- NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness
- NRS 4533, Evidence Based Practice -- Operations and Management
- SW 4203, Crisis Intervention

Track 2: Managing Disaster and Crisis

- POSC 4133, Intergovernmental Relations -- Federalism in an Era of Insecurity
- POSC 4513, Disaster Response -- Operations and Management
- PR 4603, Crisis Communication
- SOC 4343, GIS for Social Sciences

Track 3: Social, Cultural & Political Factors

- SOC 3363, Sociology of Religion or SW 4363, Religion and Spirituality in Social Work Practice
- SOC 4003, Perspectives on Death and Dying
- SOC 4063, Sociology of Disasters
- SOC 4263, Terrorism as a Social Movement

Total	15
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Choice of one course from one of the other two tracks	3
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Total	18
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Minor in Political Science

	Sem. Hrs.
Electives in Political Science.....	6
(exclusive of POSC 2103, Introduction to United States Government)	
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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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 social work, and associate degree programs in clinical laboratory science, nursing, physical therapist assistant, and radiologic technology. Information on graduate programs in the college (communication disorders, nursing, health sciences, and physical therapy) can be found in the ASU Graduate Bulletin.

Accreditation and Registration

Both the associate degree and the baccalaureate degree programs in nursing are approved by the Arkansas State Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC) (61 Broadway, New York, NY 10006; telephone: (212) 363-5555, X153). Upon completion of these programs the student is eligible for the National Council of State Boards of Nursing Licensing Examination (NCLEX-RN), and after passing the examination, is licensed as a Registered Nurse by the state(s) to which application was made.

The Clinical Laboratory Scientist and Clinical Laboratory Technician programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr Avenue, Suite 670, Chicago, IL 60631, 773-714-8880. Graduates of these programs are eligible for the national certifying examinations in their specialty through the American Society of Clinical Pathologists or other appropriate agency.

The baccalaureate degree in Communication Disorders is a preprofessional degree designed to prepare students for graduate study in speech-language pathology. Both curriculum and practicum experiences have been designed to partially fulfill requirements for the Certificate of Clinical Competence issued by the Council on Academic Accreditation of the American Speech-Language Hearing Association.

Both the Master of Physical Therapy (MPT) and the Physical Therapist Assistant (PTA) programs are accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 N. Fairfax Street, Alexandria, VA 22314, 703-706-3245.

The Radiologic Technology and Radiation Therapy programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 900, Chicago, IL, 60606-2901. Graduates are eligible to sit for the national certifying examination of the American Registry of Radiologic Technologists. The Nuclear Medicine Program is accredited by the Joint Review Committee on Education in Nuclear Medicine Technology. The Diagnostic Medical Sonography Program is accredited by the Joint Review Committee for Education in Diagnostic Medical Sonography.

The Social Work Program is accredited by the Council on Social Work Education, CSWE, 1725 Duke Street, Suite 500, Alexandria, VA 22314-+3457, 703-683-8099.

Most state and national board application forms ask if the applicant has ever been convicted of a crime. Certain crimes (e.g., controlled substance use or sale) may make the applicant ineligible for the examination. If a student has any reason to believe that he/she may be ineligible for the state or national board examinations, he/she should discuss this with the program director or the respective licensing agency.

Application Policies and Procedures

Admission to Arkansas State University does not automatically admit one to the programs offered by the College of Nursing and Health Professions. The college has a selective admissions policy due to professional requirements and limited clinical sites for placement of students. **All remediation requirements must be completed prior to beginning the professional component of any Nursing or Health Professions program.**

For a listing of the criteria used by admission committees in selecting students for the various programs, contact the appropriate department chair or program director (Nursing 972-3074; Clinical Laboratory Sciences 972-3073; Radiologic Sciences 972-3073; Physical Therapy 972-3591; Communication Disorders 972-3106; Social Work 972-3984). Courses in clinical laboratory sciences, physical therapist assistant, radiologic sciences, radiologic technology, and nursing (with the exception of NRS 2203, NRS 3353, NRS 3333, NRS 4393, NRS 3392 and 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 BIO 2223 and 2201, PSY 2013, CD 2653, CD 2104, CD 2203, and GSP 1204; "C" or better in ENG 1003, ENG 1013, SCOM 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. Deadline for traditional AASN program at the Mountain Home, Beebe 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 prerequisites. All traditional AASN applicants must have CNA certification from Arkansas Office of Long Term Care.

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 2.8 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.

2nd Degree Accelerated BSN - June 1 for August Interim enrollment. A baccalaureate degree in another discipline plus all major required support courses must be completed prior to admission.

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 Physical Therapist Assistant (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, and Cardiovascular-Interventional Technology. Admission is granted at the beginning of each semester. Only applicants who have 1) completed the associate degree in Radiologic Technology from a Joint Review Committee on Education in Radiologic Technology (JRCERT) approved program **OR** 2) graduated from a JRCERT approved school of Radiologic Technology **AND** passed the national certification boards through the American Registry of Radiologic Technologists will be considered.

Radiation Therapy - Bachelor of Science in Radiologic Sciences: April 1 for Fall enrollment. Students are accepted based on 1) cumulative GPA 2) selected course grades 3) interview 4) number of hours completed toward degree. All three are converted to a point system. Students wishing to apply to the Radiation Therapy program must have completed at least one year of an accredited school of Radiologic Technology or have graduated. ASU graduates receive extra points when calculating total scores.

Diagnostic Medical Sonography - Bachelor of Science in Radiologic Sciences: April 1 for Summer I enrollment. Students are accepted based on 1) cumulative grade point average, 2) selected course grades, 3) interview, and 4) personal essay completed at the orientation session. Preference given to those who are near successful completion of the General Education Curriculum and the Radiologic Sciences core courses. To be eligible to apply students must 1) complete an accredited school of radiologic technology or 2) complete the prerequisite courses outlined in the Bulletin.

Magnetic Resonance Imaging- Bachelor of Science in Radiologic Sciences: June 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, and 5) references. All categories are converted to a point system. Students wishing to apply to the MRI program must have completed all core requirements prior to fall semester. Registered Radiologic Technologists receive extra points when calculating total scores.

Nuclear Medicine Technology - Bachelor of Science in Radiologic Sciences: April 1 for Fall admission. Students are accepted based on 1) cumulative GPA 2) orientation session 3) interview. Students should see the Director of Radiologic Sciences Programs for further details.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Social Work — Bachelor of Social Work: Students must be admitted to the program before they will be allowed to take Social Work major courses. Students must have a minimum of 30 hours with a GPA of at least 2.5 overall. Generally, students will be admitted during the second semester of their sophomore year. Consideration for admission to the program will be in the spring semester. Specific due dates for materials will be posted on the notice board outside the departmental office. Students should follow the criteria in the Social Work Student Handbook available on the web.

Students will be notified in writing of the decision of the admissions committee. It is the responsibility of each student to see that all required documents have been received by the appropriate program in the College of Nursing and Health Professions by the deadline date. No student will be considered for admission until the file is complete and all requirements are met.

Disclaimer

Given the rapid changes in health care and technology, the programs in the College of Nursing and Health Professions reserve the right and responsibility to revise the curriculum to anticipate societal needs for health care. Therefore, students are strongly advised to contact the program directors for current requirements.

Students admitted to any College of Nursing and Health Professions program must meet the program's professional course requirements stated in the ASU Undergraduate Bulletin in effect the academic year of their admission to the professional program.

Vaccination and Skin Testing

Students **ADMITTED** to any program in the College of Nursing and Health Professions must present the following immunization and test documentation:

1. Rubella and rubeola (Arkansas statute).
2. Mumps and varicella vaccination or titer (clinical affiliate (hospital) requirements when working with infants and children).
3. If no hepatitis immunization or titer, then must begin the Hepatitis B vaccine series prior to enrolling in a clinical practicum class. All students except C.D. must have completed the Hepatitis B series before enrolling in the first practicum course of their program.
4. TB skin test each year that the student is enrolled in a clinical practicum. If skin test is positive, documentation of treatment status must be submitted.
5. Cardiopulmonary resuscitation (CPR) certification is required before taking any practicum courses. Certification status must be maintained and documentation submitted to the appropriate department throughout enrollment in any program.

Radiologic Sciences Film Badge Fees

Students accepted into the Radiologic Technology program will be assessed an annual charge of \$120.00 per year (\$240 total) for radiologic film badges. Payment is due to the office of the program director prior to Clinical Practicums 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 College of Nursing and Health Professions' programs are required to purchase malpractice/liability coverage. Assistance in arranging for coverage will be made through program directors.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Student Employment

Programs in the College of Nursing and Health Professions require an unusual amount of the students' time, and students should pay particular attention to the section on "Student Academic Load" in the Academic Policies and Regulations section in this Bulletin. Outside employment may need to be adjusted to course and clinical requirements scheduling.

Transportation

Students are required to provide their own transportation when assigned to all practica, including field experience in surrounding counties or other states. When determining educational costs, consideration should be given to this additional expense.

Probation, Retention, and Readmission

All programs in the College of Nursing and Health Professions have policies governing probation, retention, and readmission.

Probation

When the cumulative, semester, or session grade point average falls below 2.00, the student in physical therapist assistant, radiologic technology, associate degree nursing, or baccalaureate degree nursing will be placed on probation. At the end of the next semester or session of enrollment the cumulative grade point average must be at least 2.00 for the student to remain in his/her respective program.

Retention

A student may not continue in the

- A. clinical laboratory sciences programs if a grade lower than "C" is received in any biological, chemistry or 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. baccalaureate degree social work program if a grade lower than "C" is received in any social work course. 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 School of Nursing.
 - B. Procedures for application for readmission
 1. A student must submit to
 - a. the CLS programs a completed application form obtainable from the program director's office by the deadline date for applications as noted under "Application Procedures."
 - b. the RT program a completed application form obtainable from the program director's office sixty (60) days prior to the first day of registration of the semester for which readmission is sought.
 - c. any RS program a completed application form obtainable from the departmental office sixty (60) days prior to the first day of registration of the semester for which readmission is sought.
 - d. the School 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.
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School of Nursing

Associate Professor Sue McLarry, Chair; Professors Skorga, Young; Associate Professors Gilbert-Palmer, Isaacson, Persell, Stacy; Assistant Professors Anderson, Baker, Blue, Campbell, Clay, Cooper (Beebe), Crumpton, Drake (Mountain Home), Hall, Fuller (Mountain Home), Hunt (Mountain Home), R. Miller, Nix, Priemer, Schafer (West Memphis), Sifford, Smith (Beebe), Simmons (Beebe), Troxel, Walden, Wiggins, Wike (Mountain Home), Wimberley, Matthews, Schmidt

The mission of the School of Nursing is to educate, enhance and enrich students for evolving professional nursing practice. The School of Nursing values the following as fundamentals: Integrity (purposeful decision to consistently demonstrate truth and honesty); **Excellence** (highest quality of nursing education, practice, service and research); **Diversity** (respect for varied dimensions of individuality among populations); **Service** (professional experiences in response to the needs of society); **Learning** (acquisition of knowledge and skills in critical thinking, practical reasoning, and decision making) and **Student Centered** (development of essential skills for lifelong learning, leadership, professionalism, and social responsibility).

The School 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.

2nd DEGREE ACCELERATED BACHELOR OF SCIENCE IN NURSING: A BSN option designed for the graduate of baccalaureate program in another discipline. The option is accelerated and all nursing course work is completed in one year of full time study.

EDUCATIONAL MOBILITY: The nursing faculty is committed to the concept of educational mobility, and has provided a variety of approaches to Licensed Practical Nurses, to Licensed Psychiatric Technician Nurses, and to Registered Nurses prepared at the associate degree and diploma levels. LPNs, LPTNs, and RNs must work closely with their advisers. LPNs and LPTNs must be admitted to the desired program prior to enrolling in any nursing courses (except NRS 2203, NRS 3353, NRS 3392, and NRSP 3391). The BSN program has a specially designed RN track to facilitate RNs' movement through the BSN. The track includes a reduction in nursing clinical hours, and clinical experiences designed to accommodate individual learning goals. RNs must make application to the BSN program during the semester enrolled in NRS 3312. Detailed information may be obtained from the nursing office (972-3074) relative to earning credit by articulation or examinations.

Prospective students who are LPNs, LPTNs, or RNs applying for admission to any nursing program must have a current unencumbered license to practice Nursing in the state of Arkansas.

DISTANCE LEARNING PROGRAM: The School 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

To contact Distance Learning offices:

ASU-Jonesboro (Main campus) (870) 972-2532
 ASU-Beebe (501) 882-8291
 ASU-Mountain Home (870) 508-6170
 MSCC-West Memphis (870) 733-6722
 or Compressed Video Network Office (870) 972-2532

EARLY GRADUATE SCHOOL ADMISSION. If a BSN senior has a cumulative GPA of at least 2.75, or a GPA of 3.00 on the last 60 hours, and has the approval of the faculty adviser, the student may take a graduate level course in the final year of the BSN program. The total number of credits per semester may not exceed 15. Students will receive graduate credits only if the requirements for the bachelor's degree (BSN) have been met at the end of the second term, and all requirements for admission to the Graduate School are met.

CRIMINAL BACKGROUND CHECKS. Arkansas law requires applicants for licensure by examination to submit to criminal background checks. If an applicant has pleaded guilty or *nolo contendere* to any offense listed in Act 1208 of 1999, he/she is not eligible for Arkansas licensure. (Act 1208 of 1999 provides opportunity to request a waiver of eligibility criteria related to a criminal background in certain circumstances.)

COMPREHENSIVE EXAM FEE: This fee is charged to all students enrolled in NRSP 2244, NRSP 4323, and NRSP 4366 or NRSP 4336. The approximate cost is \$38.00. This fee is a part of the School of Nursing Assessment program.

Major in Nursing Associate in Applied Science in Nursing Jonesboro, Beebe, Mountain Home, and West Memphis

General Education Requirements:

	Sem. Hrs.
BIO 2203 AND 2201, Human Anatomy and Physiology I and Laboratory	4
CS 1013, Introduction to Computers; OR CIT 1503, Microcomputer Applications; OR any comparable three-hour computer course	3
ENG 1003 and 1013, Composition I and II	6
HIST 2763 or 2773, U.S. History To or Since 1876; OR POSC 2103, Intro to United States Government	3
MATH 1023, College Algebra (or higher level math course)	3
	19

Major Requirements:

	Sem. Hrs.
NRS 1214, Introduction to Nursing	4
NRS 1235, Nursing I	5
NRS 1252, Role Development I	2
NRS 2212, Nursing II Mental Health	2
NRS 2213, Nursing II Medical Surgical	3
NRS 2232, Nursing III Maternal Child	2
NRS 2233, Nursing III Medical Surgical	3
NRS 2252, Role Development II	2
NRS 2262, Role Development III	2
NRS 3392, Health Assessment	2
NRSP 1222, Fundamentals of Nursing Practicum	2
NRSP 1243, Clinical Practicum I	3
NRSP 2224, Clinical Practicum II	4
NRSP 2244, Clinical Practicum III	4
NRSP 2272, Role Development Practicum	2
NRSP 3391, Health Assessment Practicum	1
	43

Required Support Courses:

BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory	4
BIO 2223 AND 2221, Human Anatomy and Physiology II and Laboratory	4
PSY 2013, Introduction to Psychology	3
	11
Total	73

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Nursing
Associate in Applied Science in Nursing
Jonesboro, Beebe, Mountain Home, and West Memphis

- A. The following thirteen hours must be completed prior to acceptance into the program:
 BIO 2203 **AND** 2201, Human Anatomy and Physiology and Laboratory
 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:
 BIO 2223 **AND** 2221, Anatomy and Physiology II and Laboratory
 CS 1013, Introduction to Computers, or CIT 1503, Microcomputer Applications
 NRS 3392, Health Assessment
 NRSP 3391, Health Assessment Practicum
- C. The following courses must be completed prior to taking NRS 2232, Nursing III Maternal Child and NRS 2233, Nursing III Medical Surgical and NRSP 2244, Clinical Practicum III:
 BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory
 ENG 10113, 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 or since 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
- G. A CNA certification from Arkansas Office of Long Term Care

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, Mountain Home and West Memphis

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 School of Nursing Office at (870) 972-3074.

A. The following courses must be completed prior to fall nursing course work:	
BIO 2203 AND 2201, Human Anatomy/Physiology I and Laboratory.....	4
BIO 2223 AND 2221, Human Anatomy/Physiology II and Laboratory.....	4
CIT 1503, Microcomputer Applications or CS 1013, Introduction to Computers.....	3
ENG 1003, Composition I (grade of "C" or better).....	3
MATH 1023, College Algebra (or higher level math course).....	3
NRS 3392, Health Assessment.....	3
NRSP 3391, Health Assessment Practicum.....	1
PSY 2013, Introduction to Psychology.....	3
	23
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:	
BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory.....	4
ENG 1013, Composition II (grade of "C" or better).....	3
C. The following course must be completed prior to graduation:	
HIST 2763 or HIST 2773, U.S. History or POSC 2103, Introduction to United States Government.....	3
	10

Major in Nursing
Bachelor of Science in Nursing

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)**
 HIST 2763, HIST 2773 **OR** POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:
 BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory
 CHEM 1013 **AND** 1011, General Chemistry I and Laboratory
 MATH 1023, 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 3392, Health Assessment.....	2
NRS 4312, Chronic Illness and Rehabilitation Nursing.....	2
NRS 4343, Professional Nursing—Community.....	3
NRS 4355, Critical Care and Emergency Nursing.....	5
NRS 4362, Professional Role Development.....	2
NRS 4543, Health Care Administration.....	3
NRS Elective (upper level course).....	3
NRSP 1422, Foundations of Nursing Practice.....	2
NRSP 2343, 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
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Required Support Courses:

BIO 2203 AND 2201, Human Anatomy/Physiology I and Laboratory.....	4
BIO 2223 AND 2221, Human Anatomy/Physiology II and Laboratory.....	4
BIO 3203, Pathophysiology or NRS 3023, Interdisciplinary Clinical Pathology.....	3
CHEM 1031 AND 1033, Introduction to Organic and Biochemistry and Laboratory.....	4
PSY 3103 AND 3101, Quantitative Methods for Behavioral Sciences and Laboratory; OR SOC 3383 and 3381, Social Statistics and Laboratory.....	4
	19

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 NRSP 4336 and 4366 (Total degree hours will be 131.)

Total 129-132

**Major in Nursing
Bachelor of Science in Nursing
Second Degree Accelerated Program**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

Admission Requirements:

1. Earned Bachelor Degree
2. Overall GPA of 2.5
3. Acceptable immunization status
4. Completion of the following courses with a "C" or better:
 - a. BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory
 - b. BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory
 - c. BIO 2223 **AND** 2221, Human Anatomy/Physiology II and Laboratory
 - d. CHEM 1013 **AND** 1011, General Chemistry I and Laboratory
 - e. CHEM 1033 **AND** 1031, Introduction to Organic and Biochemistry and Laboratory
 - f. ENG 1003 **AND** ENG 1013, Composition I and II
5. Completion of the following support courses:
 - a. PSY 2013, Introduction to Psychology
 - b. SOC 2213, Principles of Sociology
 - c. Statistics - 3 credit hours
 - d. HIST 2763 **OR** 2773, United States History I or II **OR** POSC 2103, American Government

General Education Requirements:

ENG 1003 AND 1013, Composition I and II.....	3
HIST 2763 OR 2773, United States History I or II OR POSC 2103, American Government.....	3

Required Support Courses:

Students with this major **must** take the following:

- BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory
- BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory
- BIO 2223 **AND** 2221, Human Anatomy/Physiology II and Laboratory
- CHEM 1013 **AND** 1011, General Chemistry I and Laboratory
- CHEM 1033 **AND** 1031, Introduction to Organic and Biochemistry and Laboratory
- PSY 2013, Introduction to Psychology
- SOC 2213, Principles of Sociology
- Statistics - 3 credit hours

Major Requirements:

	Sem. Hrs.
NRS 2423, Introduction to Essentials of Nursing	3
NRS 2433, Essentials of Medical-Surgical Nursing I	3
NRS 2443, Essentials of Nursing Care of the Child-Bearing Family	3
NRS 3463, Pathophysiology Based Pharmacology I	3
NRS 3312, Introduction to Nursing Research	2
NRS 3473, Pathophysiology Based Pharmacology II	3
NRS 3392, Health Assessment	2
NRS 3422, Essentials of Mental Health Nursing	2
NRS 3423, Essentials of Community Health	3
NRS 3445, Essentials of Medical-Surgical Nursing II	5
NRS 4362, Professional Role Development	2
NRS 4425, Essentials of Medical-Surgical Nursing III	5
NRS 4443, Essentials of High Acuity Nursing	3
NRS 4543, Health Care Administration	3
NRSP 1422, Foundations of Nursing Practice	2
NRSP 2432, Clinical Experience I	2
NRSP 3391, Health Assessment Practicum	1
NRSP 3433, Clinical Experience II	3
NRSP 3453, Clinical Experience III	3
NRSP 4433, Clinical Experience IV	3
NRSP 4456, Clinical Experience V	6
NRSP 4466, Clinical Experience VI	6
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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 School 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 science and mathematics courses required for a baccalaureate degree in nursing, with a "C" or better in each class.
7. Completion of required support courses.

Note: Students meeting the above requirements will be admitted on clinical space availability.

Required Support Courses prior to Junior Year:

BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory.....	4
BIO 2203 AND 2201, Human Anatomy/Physiology I and Laboratory.....	4
BIO 2223 AND 2221, Human Anatomy/Physiology II and Laboratory.....	4
CHEM 1013 AND 1011, General Chemistry I and Laboratory	4
CHEM 1033 AND 1031, Intro. to Organic and Biochemistry and Laboratory	4
ENG 1003, Composition I.....	3
ENG 1013, Composition II.....	3
MATH 1023, College Algebra	3
NRS 3392, Health Assessment	2
NRSP 3391, Health Assessment Practicum.....	1
PSY 2013, Introduction to Psychology	3
SOC 2213, Principles of Sociology	3
General Education Critical Thinking Option.....	3
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Recommended General Education Credits.....	41
	21
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	62

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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Admission Requirements:

1. Current unencumbered registered nurse license
2. 1000 hours of recent work experience as an RN prior to enrollment in 4000 level nursing courses.
3. Overall GPA of 2.5
4. Completion of all required English, Science and Math courses with a "C" or better in each course.
5. Completion of required support courses

Note: Students meeting the above requirements will be admitted on clinical space availability.

Prior to taking first clinical course, the student must hold:

1. A current Arkansas nursing license
2. Professional liability insurance (minimum: \$1,000,000/\$3,000,000 coverage)
3. Current CPR certification
4. Acceptable immunization status
5. Completed physical examination form

Required Support Courses prior to Senior Level:

NRS 3392, Health Assessment	2
NRSP 3391, Health Assessment Practicum	1
NRS 3312, Nursing Research	2

Senior Level:

Theory Courses:

NRS 4311, Clinical Pharmacology and Nursing Management: Tertiary	1
NRS 4312, Chronic Illness and Rehabilitation Nursing	2
NRS 4343, Professional Nursing: Community	3
NRS 4355, Critical Care and Emergency Nursing	5
NRS 4362, Professional Role Development	2
NRS 4373, Professional Nursing: Management.....	3
NRS Upper Level Elective	3

Clinical Courses:

NRSP 4323, Nursing Care VII: Community and Rehabilitation	3
NRSP 4363, Nursing Care VIII: Critical Care and Management	3

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 4553, Capstone in Homeland Security and Disaster Preparedness	3
Choice of three (3) courses from within a single track.....	9
Track 1: Healthcare in Homeland Security and Emergency Preparedness	
NRS 4513, Physical Care of Victims of Chemical, Biological, Radiological and Nuclear Disasters	
NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness	
NRS 4533, Evidence Based Practice – Operations and Management	
SW 4203, Crisis Intervention	
Track 2: Managing Disaster and Crisis	
POSC 4133, Intergovernmental Relations -- Federalism in an Era of Insecurity	
POSC 4513, Disaster Response -- Operations and Management	
PR 4603, Crisis Communication	
SOC 4343, GIS for Social Sciences	
Track 3: Social, Cultural & Political Factors	
SOC 3363, Sociology of Religion or SW 4363, Religion and Spirituality in Social Work Practice	
SOC 4003, Perspectives on Death and Dying	
SOC 4063, Sociology of Disasters	
SOC 4263, Terrorism as a Social Movement	
Total	15
Choice of one (1) course from one of the other two tracks	3
Total	18

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

GENERAL PROGRAM AND ADMISSIONS INFORMATION

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.

Department of Clinical Laboratory Sciences

Associate Professor Williams; Assistant Professors Payne, Watrous;

The field of clinical laboratory science offers opportunities for service to those students who are interested in the biological and chemical sciences. Clinical laboratory scientists are academically prepared, skilled laboratory workers who perform a variety of analyses which aid the physician in the diagnosis and treatment of patients. The procedures which they utilize may disclose changes which might not be detected in other ways.

The Associate in Applied Science-Clinical Laboratory Technician degree is a two-year program which permits students to achieve the status of clinical laboratory technician (CLT). The program is carefully articulated with the baccalaureate program in clinical laboratory sciences.

The BS-Clinical Laboratory Scientist degree is a 4-year program which provides an understanding of the theoretical and scientific fundamentals underlying the procedures involved, which include a broad based knowledge in the principles of human biology, chemistry, analytical instrumentation, and a familiarity with the educational and managerial aspects associated with one who occupies a professional role in a wide variety of settings.

Students applying for admission to the Clinical Laboratory Sciences programs are expected to present appropriate GPAs. Students seeking admission to the AAS degree program must have a minimum GPA of 2.0 or better. Students seeking admission to the BS degree program must have a minimum GPA of 2.5 or better.

For more information about the CLS Program, go to <http://www.clc.astate.edu/cls/>.

**Major in Clinical Laboratory Sciences
Associate in Applied Science**

General Education Requirements:

	Sem. Hrs.
* CHEM 1013 AND 1011, General Chemistry I and Laboratory	4
CS 1013, Introduction to Computers; OR CIT 1503, Microcomputer Applications	3
ENG 1003 AND 1013, Composition I and II	6
HIST 2763 OR 2773, U.S. History To or Since 1876; OR POSC 2103, Introduction to U.S. Government.....	3
MATH 1023, College Algebra (or higher level math)	3

* If the student has not had chemistry previously, then CHEM 1003, Intro. to Chemistry, must be completed first. 19

Major Requirements:

	Sem. Hrs.
BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory	4
BIO 2223 AND 2221, Human Anatomy and Physiology II and Laboratory	4
CLS 1512 AND 1511, Basic Principles and Laboratory	3
CLS 1521 AND 1531, Body Fluids and Laboratory.....	2
CLS 2514, Clinical Practicum I	4
CLS 2523 AND 2521, Hematology I and Laboratory	4
CLS 2524, Clinical Practicum II	4
CLS 2533 AND 2531, Medical Microbiology I and Laboratory	4
CLS 2543 AND 2541, Clinical Chemistry I and Laboratory	4
CLS 2551, Hematology Disorders for the Clinical Lab Technician	1
CLS 2563 AND 2561, Basic Blood Banking and Laboratory	4
CLS 2573 AND 2571, Clinical Immunology and Laboratory	4
CLS 3512 AND 3511, Medical Parasitology and Laboratory.....	3
CLS 3514, Clinical Practicum III	4
CLS 3524, Clinical Practicum IV	4
Total	53
Total	72

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

**Major in Clinical Laboratory Sciences
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees57-58

Specific General Education Requirements:

Students with this major must take the following:

BIO 2103 **AND** 2101, Microbiology for Nursing and Health Professions and Laboratory

BIO 2203 **AND** 2201, Anatomy and Physiology I and Laboratory

CHEM 1013 **AND** 1011, General Chemistry I and Laboratory

Major Requirements:

Sem. Hrs.

BIO 2223 AND 2221, Human Anatomy and Physiology II and Laboratory	4
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 AND 3111, Organic Chemistry II and Laboratory; OR CLS 3153, Clinical Biochemistry	3-4
CLS 1512 AND 1511, Principles of Clinical Lab Sciences and Laboratory	3
CLS 1521 AND 1531, Body Fluids and Laboratory	2
CLS 2523 AND 2521, Hematology I and Laboratory	4
CLS 2533 AND 2531, Medical Microbiology I and Laboratory	4
CLS 2543 AND 2541, Clinical Chemistry I and Laboratory	4
CLS 2563 AND 2561, Immunohematology I and Laboratory	4
CLS 2573 AND 2571, Clinical Immunology and Serology and Laboratory	4
CLS 3122, Research Concepts for CLS	2
CLS 3223 AND 3221, Hematology II and Laboratory	4
CLS 3343, Principles of Disease	3
CLS 3512 AND 3511, Medical Parasitology and Laboratory	3
CLS 3522, Clinical Laboratory Management	2
CLS 4013, Molecular Diagnostics	3
CLS 4102, Special Topics (Research)	2
CLS 4113 AND 4111, Clinical Chemistry II and Laboratory	4
CLS 4211, Clinical Laboratory Education	1
CLS 4333 AND 4331, Immunohematology II and Laboratory	4
CLS 4443 AND 4441, Medical Microbiology II and Laboratory	4
CLS 4174, Clinical Practicum I	4
CLS 4184, Clinical Practicum II	4
CLS 4194, Clinical Practicum III	4
CLS 4204, Clinical Practicum IV	4

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Total 143-145

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Department of Communication Disorders

Professors McDaniel, Neeley; Assistant Professors Pierce, Lovelace, Pait;

COMMUNICATION DISORDERS: The Bachelor of Science degree in Communication Disorders is a preprofessional degree program which provides students with academic and practical preparation considered essential for success in the Communication Disorders graduate program. The undergraduate curriculum offers students a broad base of preparation in general education requirements, the sciences associated with communication and its disorders, anatomy and physiology, and a number of basic methods courses associated with the identification and treatment of a variety of communication disorders. Admission to the undergraduate communication disorders program requires the following: 1. A 3.1 or better GPA for: a. PSY 2013, b. BIO 2223, and 2201, c. CD 2653, d. CD 2104, e. CD 2203, f. GSP 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.

**Major in Communication Disorders
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

(The master's degree is required for initial licensure.)

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees36-37

Specific General Education Requirement:

The appropriate General Education Requirements are underlined in online degree plan.

Major Requirements:

Sem. Hrs.

* CD 2104, Anatomy and Physiology of Speech	4
* CD 2203, Phonetics	3
* CD 2653, Introduction to Communication Disorders	3
CD 3003, Speech and Hearing Science	3
CD 3303, Normal Language Development	3
CD 3402, Intro to Manual Communications	2
CD 3503, Audiology	3
CD 3703, Clinical Management Techniques in CD	3
** CD 3803, Service Delivery in Communication Disorders	3
** CD 4093, Neurological Bases of Human Communication	3
** CD 4103, Fluency	3
CD 4203, Organic Speech Disorders	3
** CD 4254, Introduction to Neurogenic Disorders	4
** CD 4303, Language Intervention for Individuals with Mild Disabilities	3
CD 4403, Aural Rehabilitation	3
** CD 4553, Craniofacial Anomalies	3
** CD 4751, Clinical Practice I	1
** CD 4703, Articulation and Phonological Disorders	3
* SCOM 1203, Oral Communication	3
** PHSC 1203 and 1201, Physical Science and Laboratory	4
** PSY 2013, Introduction to Psychology	3
* BIO 2203 AND 2201, Human Anatomy and Physiology I and Laboratory	4
Aging	3
Counseling	3
Psychology	6
Statistics	3-4

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

* These courses must be completed in conjunction with PSY 2013 and GSP 1204 with a 60-61 GPA of 3.1 or better. This GPA requirement is one prerequisite for admission into the undergraduate program in Communication Disorders. Refer to index for a complete list of admission requirements.
 ** Prerequisite: Must be admitted into the undergraduate Communication Disorders Program.

Note: In order for students to be admitted into the Bachelor of Science in Communications Disorders, they must meet the following conditions:

1. An overall GPA of 2.75
2. 'C' or better in:
 - a. ENG 1003 Composition I
 - b. ENG 1013 Composition II
 - c. MATH 1023 College Algebra
 - d. SCOM 1203 Speech Communication
3. An average GPA of 3.1 or higher in the following:
 - a. BIO 2203 AND 2201, Human Anatomy/Physiology I and Laboratory
 - b. CD 2104 Anatomy and Physiology of CD with Laboratory
 - c. CD 2203, Phonetics
 - d. CD 2653 Intro to Communication Disorders
 - e. PHSC 1203 Physical Science and Laboratory
 - f. PSY 2013 Intro to Psychology
4. 10 clock hours of documented information
5. Speech and hearing screening

Electives:	Sem. Hrs.
Free Electives / Enhancements.....	6
Total	126

CLASS OPTIONS

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 3213, Principles of Macroeconomics POSC 1003, Introduction to Politics
 ECON 2333, Economic Issues & Concepts POSC 2103, Intro to American Government
 HIST 2763, The United States to 1876 SOC 2213, Introduction to Sociology
 HIST 2773, The United States since 1876
2. **Life Sciences**
 Select one of the following.
 BIOL 1003 AND 1001, Biological Science and Laboratory
 BIOL 1033 AND 1001, Biology of Sex and Laboratory
 BIOL 1043 AND 1001, Plants and People and Laboratory
 BIOL 1063 AND 1001, People and the Environment, and Laboratory
 BIO 2013 AND 2011, Biology of the Cell and Laboratory
 BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory
- Physical Sciences**
 Select one of the following.
 CHEM 1013 AND 1011, General Chemistry I and Laboratory
 GEOL 1003 AND 001, Environmental Geology and Laboratory
 PHSC 1203 AND 1201, Physical Science and Laboratory
 PHYS 1014, Energy and the Environment
 PHYS 1103 AND 1101, Introduction to Space Science and Laboratory
 PHYS 2034, University Physics I (Multimedia)
 PHYS 2054, General Physics I
 PHYS 2073 AND 2071, Fundamental Physics and Laboratory
3. **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 2003, Intro to Literature of the Western World I
 ENG 2013, Intro to Literature of the Western World II
 PHIL 1103, Intro to Philosophy
4. **Writing**
 One of the following courses must be completed.
 ENG 3013, Practical Writing ENG 3043, Technical Writing
5. **Understanding Global Issues**
 One of the following courses must be completed.
 ANTH 2233, Intro to Cultural Anthropology HIST 1013, World Civilization to 1660
 GEOG 2613, Intro to Geography HIST 1023, World Civilization since 1660

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

6. **Psychology and Learning**
 Two of the following courses must be completed.
 PSY 3403, Child Psychology PSY 3703, Educational Psychology
 PSY 3413, Adolescent Psychology PSY 4343, Learning Processes
 PSY 3453, Developmental Psychology PSY 4363, Cognitive Psychology
7. **Aging**
 One of the following courses must be completed.
 CD 3113, Aging in communication SOC 4353, Sociology of Aging
 NRS 3353, Aging and the Older Adult
8. **Statistics**
 One of the following courses must be completed.
 PSY 3103 and 3101, Quantitative Methods and Lab STAT 3233, Applied Statistics
 SCOM 3363, Human Communication Research SOC 3383 and 3381, Social Statistics and Lab
9. **Counseling**
 One of the following courses must be completed.
 CD 3653, Clinical Interactions in CD ELSE 4683, Methods for Working with Families
 SCOM 4403, Seminar in Health Communication PSY 4053, Today's Families Interdisciplinary Approaches
10. **Enhancements**
 One of the following courses must be completed. (May not duplicate #4 selection).
 AGRI 2243, Feeding the Planet ENG 4703, Persuasive Writing
 ENG 3013, Practical Writing JOUR/RTV 1003, Mass Communication in Modern Society
 ENG 3043, Technical Writing

Department of Medical Imaging and Radiation Sciences

Associate Professors Rollins, White, Winters; Assistant Professors Caldwell, Hubbard; Instructors DeClerk, Barymon

Radiologic Technology

The Radiologic Sciences Programs are administered by the Department of Medical Imaging in the College of Nursing and Health Professions. The degrees are designed to produce associate and baccalaureate degree Radiologic Science graduates who are clinically competent advanced level radiologic sciences practitioners. Graduates are expected to achieve multi-competency credentials in the specialties of study following completion of the degree.

RADIOLOGIC TECHNOLOGY: The program in radiologic technology includes both classroom instruction and experiences in the clinical setting of the health care institutions in the area. This provides students with opportunities for direct patient care involving those who are sick and injured, as well as those for whom radiologic diagnosis is indicated.

The radiographer is a skilled person, qualified by technological education to provide patient services using imaging modalities as directed by physicians qualified to order and/or perform radiologic procedures. Still others are employed as technical advisers and representatives for radiologic equipment and supply manufacturers.

RADIOLOGIC SCIENCES: The Radiologic Sciences Program offers the radiologic professional the baccalaureate degree in 4 tracks (or options). These options are 1) Imaging Specialist, 2) Radiation Therapy, 3) Diagnostic Medical Sonography and 4) Nuclear Medicine Technology. The **Imaging Specialist Track** is designed to provide the student with the skills necessary to become an advanced level technologist in one or more of the following modalities: CT, 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. The **Magnetic Resonance Imaging track** provides the student with the skills necessary to become a professional MR Technologist.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

The AAS in Radiologic Technology degree is offered in radiography.

The AAS degree requires the following total credit hours:

General Education	19
Radiologic Technology	50
Required support course (PSY 2013)	3
TOTAL	72

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
2. Radiation Therapy
3. Diagnostic Medical Sonography
4. Nuclear Medicine Technology
5. Magnetic Resonance Imaging

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 in Radiologic Sciences. Students who declare the AAS degree and later wish to pursue the BSRS degree must make separate application upon completion of the AAS degree. (See the Health Professional Advisor or the Director of Radiologic Sciences Programs for complete details.)

Students accepted into the Radiologic Technology program will complete their professional education in two areas: the class room and the clinical setting. Class room work will occur on the ASU-Jonesboro campus, while clinical education will occur in area hospitals and clinics. The professional portion of the program is offered as a full-time course. Upon graduation, students are eligible for the national credentialing American Registry of Radiologic Technologists examination in radiography.

Applicants to the Radiologic Technology Program are selected by the Admissions Committee using the following criteria:

- (1) Cumulative grade point average
- (2) Support course GPA (see application package)
- (3) Essay Score
- (4) Reference evaluations

Each of the 4 categories listed is translated to a scaled system of points. Once scaled, students are ranked accordingly. The top 60 will be asked for an interview. Note: Students completing support course work on the ASU Jonesboro campus will be awarded 5 points toward the final score.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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 1323, Principles of Exposure I	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 3202, Radiologic Special Procedures	2
	RT 3212, Principles of Exposure III	2
	RT 3223, Clinical Practicum V	3
2nd Spring	RT 3312, Radiobiology	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 Medical Imaging and Radiation 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

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) Interview
- (4) Personal essay completed at time of orientation session
- (5) 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 Magnetic Resonance Imaging

The Magnetic Resonance Imaging program is seeking accreditation 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 MR technologist. To complete the major in this area, students must complete the 44 hours of the program. No minor is required. Upon completion of the baccalaureate degree students are prepared to sit for the ARRT examination in Magnetic Resonance Imaging. 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
- (5) References

The above criteria are converted to a point system. Registered Radiologic Technologists receive extra points when calculating total scores.

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

Applicants to the Nuclear Medicine Technology Program are selected by the Admissions Committee of 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 speciality from ASU in order to complete the requirements for a minor toward the BSRS degree and at least two courses in the speciality from ASU to complete the requirements for a major toward the BSRS degree. In addition, students must complete all general education requirements, Radiologic Sciences Core requirements, and meet all residency requirements of the university.

Credit for Work Experience

Technologists who have successfully passed an appropriate national professional examination and have worked 1,000 hours in that speciality 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:

General Education Requirements:	Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees	46-49
Radiologic Sciences Core (14 hours)	Sem. Hrs.
CLS 4212, Interpreting Laboratory Data	2
RS 3133, Sectional Anatomy	3
RS 3142, Advanced Imaging and Therapy I	2
RS 4112, Radiologic Research Analysis	2
RS 4852, Advanced Radiologic Pathology I	2
RS 4343, Radiologic Administrative Concepts OR RS 4333, Radiologic Education Concepts	3

Imaging Specialist Emphasis (24-27hours)	Sem. Hrs.
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3152, Advanced Imaging and Therapy II	2
RS 3811, Radiologic Quality Management Administration	1
RS 4862, Advanced Radiologic Pathophysiology II	2
Select one (1) of the following specialties:	
Cardiovascular Interventional Technology (8 hours)	
RS 4423, Cardiovascular Interventional Procedures and Instrumentation	3
RS 4442, Cardiac Physiology and Procedures	2
RS 4451, Cardiovascular Interventional Clinical Education I	1
RS 4462, Cardiovascular Interventional Clinical Education II	2
Mammography and Bone Densitometry (5 hours)	
RS 4532, Mammography Procedures & Instrumentation	2
RS 4541, Mammography Clinical Education I	1
RS 4552, Mammography Clinical Education II	2
Computed Tomography (7 hours)	
RS 4622, Computed Tomography Instrumentation	2
RS 4632, Computed Tomography Procedures	2
RS 4641, Computed Tomography Clinical Education I	1
RS 4652, Computed Tomography Clinical Education II	2

Radiation Therapy Emphasis (41 hours)	Sem. Hrs.
Fall	
NHP 4453, Healthcare Administration OR RS 4343, Radiologic Administrative Concepts	3
RST 4203, Introduction to Radiation Therapy and Patient Care	3
RST 4214, Radiation Therapy Principles and Practice I	4
RST 4313, Radiation Physics I	3
RST 4513, Radiation Therapy Clinical Education I	3
Spring	
RST 4224, Radiation Therapy Principles and Practice II	4
RST 4333, Applied Radiation Biology	3
RST 4323, Radiation Physics II	3
RST 4523, Radiation Therapy Clinical Education II	3
Summer	
RST 4234, Radiation Therapy Principles and Practice III	4
RST 4413, Radiation Protection, Safety, and Quality Management	3
RST 4242, Radiation Therapy Clinical Treatment Planning	2
RST 4533, Radiation Therapy Clinical Education III	3

Diagnostic Medical Sonography Emphasis (50 hours)	Sem. Hrs.
1st Summer	
RSU 4102, Introduction to Ultrasound	2
RSU 4112, Sectional Anatomy: Sonography	2
RSU 4122, Small Parts	2
RSU 4134, Introduction to Sonography Lab	4
1st Fall	
RSU 4113, Physics and Instrumentation I	3
RSU 4223 AND 4232, Abdomen Sonography and Laboratory	5
RSU 4513, Ultrasound Clinical I	3
1st Spring	
RSU 4613 AND 4321, OB/GYN Sonography and Laboratory	5
RSU 4323, Physics and Instrumentation III	3
RSU 4523, Ultrasound Clinical II	3
2nd Summer , 1st Session	
RSU 4534, Ultrasound Clinical III	4
RSU 4622, Obstetric Sonography II	2
2nd Summer , 2nd Session	
RSU 4544, Ultrasound Clinical IV	4
2nd Fall	
RSU 4413 AND 4422, Vascular Sonography and Laboratory	5
RSU 4552, Ultrasound Clinical V	2

Magnetic Resonance Imaging Emphasis (56 hours)	Sem. Hrs.
Radiologic Sciences Support Courses	
CLS 4212, Interpretation of Lab Data	2
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3133, Sectional Anatomy	3
RS 3152, Advanced Imaging and Therapy II	2
RS 4112, Radiologic Research Analysis	2
RS 4343, Radiologic Administrative Concepts	3
RS 4852, Advanced Rad Pathophysiology I	2
RS 4862, Advanced Rad Pathophysiology II	2
Fall	
RSMR 4702, Introduction to MR Imaging	2
RSMR 4703, MRI Instrumentation	3
RSMR 4723, MRI Procedures I	3
RSMR 4753, Clinical Education I	3
RSMR 4803, MRI Physical Principles I	3
Spring	
RSMR 4712, Imaging Information Management	2
RSMR 4733, MRI Procedures II	3
RSMR 4763, Clinical Education II	3
RSMR 4813, MRI Physical Principles II	3
RSMR 4823, Digital Acquisition & Processing	3
Summer I	
RSMR 4773, Clinical Education III	3
RSMR 4812, MRI Pharmacology	2
Summer II	
RSMR 4783, Clinical Education IV	3
RSMR 4832, Advanced MR Imaging	2
Total Professional Curriculum	38

Nuclear Medicine Technology Emphasis (46 hours)	Sem. Hrs.
Radiologic Sciences Support Courses	
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3811, Radiologic Quality Management Administration	1
RS 4862, Advanced Radiologic Pathophysiology II	2
Fall	
RS 4343, Radiologic Administrative Concepts	3
RSN 4213, Nuclear Medicine Physics and Instrumentation	3
RSN 4313, Nuclear Medicine Procedures I	3
RSN 4523, Nuclear Medicine Clinical Education I	3
Spring	
RSN 4113, Nuclear Medicine Pharmacy	3
RSN 4323, Nuclear Medicine Procedures II	3
RSN 4523, Nuclear Medicine Clinical Education II	3
Summer	
RSN 4535, Nuclear Medicine Clinical Education III	5

Department of Physical Therapy

Associate Professors Aldridge, Drake, Farris, Roehrig; Assistant Professor Keith; Instructor Sloas.

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 activities of daily living, conducts treatments using special equipment, administers modalities and other treatment procedures, and reports to the PT on patients' responses to treatment.

Major in Physical Therapist Assistant Associate in Applied Science

General Education Requirements*	Sem. Hrs.
** BIO 2203 AND 2201, Human Anatomy and Physiology I and Laboratory	4
CS 1013, Introduction to Computers; OR CIT 1503, Microcomputer Applications	3
ENG 1003 AND 1013, Composition I and II	6
HIST 2763 OR 2773, U.S. History To or Since 1876; OR POSC 2103, Introduction to U.S. Government.....	3
MATH 1023, College Algebra or higher level math course	3
	19

* 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:	Sem. Hrs.
PTA 2116, Patient Care Fundamentals	6
PTA 2126, Movement Science	6
PTA 2213, Musculoskeletal PT	3
PTA 2223, Physical Agents and Massage	3
PTA 2233, Neuromuscular PT I	3
PTA 2243, Cardiopulmonary PT	3
PTA 2252, Clinical Education I	2
PTA 2303, Neuromuscular PT II	3
PTA 2323, Seminar	3
PTA 2333, Clinical Education II	3
PTA 2343, Clinical Education III	3
	38

Required Support Courses:	Sem. Hrs.
BIO 2223 AND 2221, Human Anatomy & Physiology II and Laboratory OR HP 3003 Gross Anatomy	3-4
HP 2013, Medical Terminology	3
PHYS 2133, Survey of Physics for Health Professions	3
PSY 2013, Introduction to Psychology	3
PT 2003, Introduction to Physical Therapy	3
	15-16
Total	72-73

Graduate Program in Physical Therapy (MPT) Arkansas State University www.pt.astate.edu (870) 972-3591

If you are considering attending Arkansas State University and have the goal of studying Physical Therapy, the following information will be most important to you. The members of the faculty of the PT Program are pleased that you have considered our program. It is important for you to understand some things about Physical Therapy education. The information below should make the process of obtaining a degree in Physical Therapy more understandable.

Physical therapy education is delivered at the graduate level. This is not unique to ASU. All accredited Physical Therapy education programs deliver the entry-level degree at the post-baccalaureate level. This is the nature of PT education.

There is no undergraduate Physical Therapy degree., Yes, there is an Associate Degree in Physical Therapist Assisting at ASU, but this is not the PT degree. If your goal is to become a Physical Therapist, you will need to first complete a four-year degree (bachelor's degree). The Physical Therapy Program does not require any particular major or area of study. We view all undergraduate degrees as being of equal value and potentially appropriate preparation for PT School. We do, however, require certain prerequisite courses (primarily basic math and science courses) to prepare you for the professional courses you will be taking once admitted to graduate school and the PT Program. You should meet with one of the faculty of the PT Program to discuss these courses and how they can fit into your chosen field of undergraduate study.

As you near the completion of your undergraduate degree, you will want to make application to the ASU Graduate School and to the PT Program. The PT faculty will assist you with this process. During your undergraduate study you will want to develop a relationship with the PT faculty so that you remain abreast of all steps and processes involved in getting prepared for and applying to the PT program.

There are many issues and details that will need to be addressed as you prepare for PT School. That is why we are committed to helping you. For now, you should simply know that ASU is "the" place to get your education to become a PT. If you are reading this you have already begun the process. You may already have a field of study in mind for your undergraduate degree. That is great. If you are unsure about the undergraduate study, come by and visit. We can make some suggestions.

Visit the PT Program at 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.

Department of Social Work

Associate Professor and Chair of Social Work: Turnage; Associate Professors Brewer, Freer, Jacinto; Assistant Professors Edwards, Rahill, Walls; Instructors Fullen, Holt, Nash, Ryan; Director of Field Education Parker.

The Bachelor of Social Work degree is accredited by the Council on Social Work Education. Completion of this program prepares students for beginning generalist social work practice.

Bachelors level social workers work with a variety of clients in many settings. The skills learned in the curriculum include interviewing skills, assessment skills, and intervention skills. The BSW qualifies the student to sit for the state exam at the Licensed Social Worker level. The state licensing law outlines the level of practice at this level. This is referred to as the Generalist Practice level.

Bachelor of Social Work (BSW)

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

- HIST 2763, HIST 2773 OR POSC 2103
- At least one HIST course in the General Education Core Courses
- 'C' in ENG 1003 and ENG 1013 *
- BSW must have 'C' in MATH 1023
- 45 Upper Level **AFTER 30 HOURS** *
- 124 Earned Credit Hours *
- 18 of the Last 24 Hours at ASU *
- 32 Residence Hours *
- 57 Hours with Accredited Senior Institutions *
- 2.00 in ASU Coursework and 2.50 in Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

- Students with this major **must** take the following:
- POSC 2103, US Government
- PSY 2013, Introduction to Psychology
- SOC 2213, Principles of Sociology

Major Requirements:

	Sem. Hrs.
PSY 4533, Psychology of the Abnormal.....	3
SOC 3363, Cultural Diversity	3
SOC 3381, Social Statistical Methods Laboratory AND SOC 3383, Social Statistical Methods.....	4
SOC 4293, Methods of Social Research.....	3
SW 2203, Introduction to Social Work.....	3
SW 2223, Social Problems.....	3
SW 3253, Social Work Practice I.....	3
SW 3303, Human Behavior in Social Environment I	3
SW 3333, Human Behavior in Social Environment II	3
SW 4263, Social Work Practice II.....	3
SW 4273, Field Experience I	3
SW 4283, Field Experience Seminar	3
SW 4296, Field Experience II	6
SW 4303, Social Work Practice III.....	3
SW 4313, Social Welfare Policy	3
	49

*Approved Electives:

	Sem. Hrs.
	14-29
Total	124

*Students must have 12 hours of approved upper division electives. Foreign language, specifically Spanish, is highly recommended. Students choosing language must complete all 12 hours in the sequence.

Admission and Retention

All candidates for the Bachelor of Social Work must obtain official admission to the social work program. Details of application are found in the Social Work Handbook. Students who make formal application must meet the following criteria:

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 with a grade of "C" or better all social work required courses.
4. Make formal application to the program.
5. Must meet the criteria listed in the handbook and be approved by the Program Screening Committee.

College of Sciences & Mathematics

Dr. Greg Phillips, Dean

Mission

The College of Sciences and Mathematics prepares students to assume their places as knowledgeable, ethical, and problem-solving leaders by providing foundational and advanced studies in the natural sciences, mathematics, computer science, and statistics. A partnership among students, staff, and the faculty anchors the mission of the College of Sciences and Mathematics to expand and disseminate knowledge. The research, scholarship, creative endeavors, and professional activities of this College are intrinsically valuable, fundamental to teaching and learning throughout the University, and beneficial to the Mississippi River Delta and beyond.

The College of Sciences and Mathematics provides to all Arkansas State University students the foundation on which all higher education stands: the mathematics and the sciences. Accordingly, the College acknowledges its responsibility and is actively committed to:

- freedom of thought, inquiry and expression;
- supporting and rewarding the research, scholarship, creative endeavors, and professional activities of our faculty, staff, and students;
- supporting and rewarding effective teaching and bettering ourselves as teachers;
- recruiting, training, and retaining a highly-skilled and professional staff;
- providing the finest possible research and teaching facilities, beginning with the library, and including computer, classroom, and laboratory technology.

Moreover, the College of Sciences and Mathematics recognizes its responsibility to carry out these commitments in an environment that:

- promotes education of students to their fullest potential for their varied roles as members of local, national, and international communities;
- promotes a spirit of community among campus, regional, national, and international constituencies;
- promotes diversity; ensures opportunities; and values honesty, respect, trust, and civility among students, staff, and the faculty.

Programs of Study

The College of Sciences and Mathematics provides Arkansas State University students with general education courses which provide the foundation for all majors and professional degrees. These include traditional studies in the mathematics and the natural and physical sciences upon which the structure of higher education is built.

The College of Sciences and Mathematics offers a wide-range of undergraduate degree programs including a Bachelor of Arts in Chemistry, and in Computer Science, a Bachelor of Science in Biology, and in Wildlife Ecology and Management, Chemistry, Physics, Forensic Science, Computer Science and Mathematics; and a Bachelor of Science in Education in General Science (Biology, Chemistry, or Physics) and in Mathematics. The college also offers a variety of pre-professional programs tailored to advanced study. Most degree programs offer minors as well.

The College of Sciences and Mathematics grants a full-range of masters' degree (M.A., M.S., M.P.A., and M.S.E.) programs, several Educational Specialist degree (Ed.S.) programs, and one interdisciplinary doctoral degree (Ph.D.) program in Environmental Sciences. For further information, see ASU's Graduate Bulletin.

The college is comprised of four departments.

Department of Biological Sciences
Department of Chemistry and Physics
Department of Computer Science
Department of Mathematics and Statistics

GRADUATION REQUIREMENT

Bachelor of Science in Education

In addition to meeting the University Requirements for all Baccalaureate Degrees as presented by the University, and the Teacher Education Program Requirements as presented by the College of Education, all candidates for a Bachelor of Science in Education degree in the College of Sciences and Mathematics must also have a minimum grade point average of 2.50 on all work attempted overall, on work in the major field, and, if a transfer student, on all work taken at this institution.

FOREIGN LANGUAGE REQUIREMENT

Bachelor of Arts

All candidates for the Bachelor of Arts degree in the College of Sciences and Mathematics must demonstrate proficiency in a foreign language. This may be done in either of the following ways:

1. By completing the second semester of the intermediate year of foreign language at the college level. Students with no foreign language experience must enroll in the first semester of the freshman year and complete 12 hours of a single language. Students with some proficiency may enroll in the more advanced courses without having received credit for previous courses with the approval of the instructor and the department chair. Students who have completed two years of a single foreign language in high school should enroll in Intermediate Language I. Students who have completed one year of a foreign language in high school should enroll in Elementary Language II. Students with questions about their readiness for these courses should consult a member of the language faculty. (No credit will be awarded for courses waived.)
2. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to completion of the second semester of the intermediate year of a foreign language at the college level.

Bachelor of Science

All students who seek the degree of Bachelor of Science in the College of Sciences and Mathematics must demonstrate proficiency in a foreign language. This may be done in one of the following ways:

1. By completing two years of a single foreign language in high school.
2. By completing the second semester of an elementary foreign language course at the college level. Students with no foreign language experience must enroll in the first semester of the freshman year and complete six hours of a single language. Students who have completed one year of a foreign language in high school should enroll in Elementary Language II (3 hours).
3. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to successful completion of the second semester of the elementary year of a foreign language at the college level.

Department of Biological Sciences

Professor Aldemaro Romero, Chair; Professors Bednarz, Buchanan, Cramer, Farris, Hood, Johnson, Trauth; Associate Professors Bennett, Cooksey, A. Grippo, R. Grippo, Huss, Risch; Assistant Professors, Christian, Gilmore, McKay, Medina-Boliver, Srivatsan; Instructors Harding, Huggins

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

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

Students with this major **must** take the following:

BIO 2013 **AND** 2011, Biology of the Cell and Laboratory

CHEM 1013 **AND** 1011, General Chemistry I and 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))

POSC 2103, Introduction to United States Government

PSY 2013, Introduction to Psychology

SCOM 1203, Oral Communication

Major Requirements:

Sem. Hrs.

BIO 1303 **AND** 1301, Biology of Animals and Laboratory 4

BIO 1503 **AND** 1501, Biology of Plants and Laboratory 4

BIO 3013 **AND** 3011, Genetics and Laboratory 4

BIO 3023, Principles of Ecology 3

BIO 3033, Evolution 3

BIO 4104, Microbiology 4

BIO 4133 **AND** 4131, Cell Biology and Laboratory 4

CHEM 1023 **AND** 1021, General Chemistry II and Laboratory 4

CHEM 1033 **AND** 1031, Intro to Organic and Biochemistry and Laboratory 1

MATH 2194, Survey of Calculus 4

PHYS 2054, General Physics I 4

PHYS 2064, General Physics II 4

Biology Electives (2000 level or above) 6-8

Earth Science Electives:

GEOL 1003, Environmental Geology; GEOG 3723, Introduction to Physical Geography;

PHYS 1103, Introduction to Space Science **OR** PHYS 3133, Astronomy 9

58-61

Professional Education Requirements:*

Sem. Hrs.

** EDSC 4593, Methods and Materials for Teaching Science in the Secondary School 3

* 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

** 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

3

Total 140-143

Major in Biology Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

Students with this major **must** take the following:

BIO 2013 **AND** 2011, Biology of the Cell and Laboratory

CHEM 1013 **AND** 1011, General Chemistry I and Laboratory

MATH 1054, Precalculus Mathematics (**or** MATH 1023 **and** MATH 1054 if Math ACT score less than 22)

Language Requirement:

Sem. Hrs.

Foreign Language (Refer to index for foreign language requirements) 0-6

Major Requirements:

Sem. Hrs.

BIO 1303 **AND** 1301, Biology of Animals and Laboratory 4

BIO 1503 **AND** 1501, Biology of Plants and Laboratory 4

BIO 3013 **AND** 3011, Genetics and Laboratory 4

BIO 3023, Principles of Ecology 3

BIO 4021, Biological Seminar 1

CHEM 1023 **AND** 1021, General Chemistry II and Laboratory 4

CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory 4

CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory 4

MATH 2194, Survey of Calculus 4

PHYS 2054, General Physics I 4

PHYS 2064, General Physics II 4

40

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Emphasis Area: (Select one of the five options):

Biology:	Sem. Hrs.
BIO 3302 AND 3312, Comparative Anatomy and Laboratory.....	4
BIO 3303 AND 3301, General Entomology and Laboratory; OR BIO 3322 AND 3332, Invertebrate Zoology and Laboratory	4
BIO 3323 AND 3321, Animal Physiology and Laboratory; OR BIO 4513 AND 4511, Plant Physiology and Laboratory	4
BIO 3523 AND 3521, Plant Taxonomy and Laboratory.....	3
BIO 4104, Microbiology.....	4
BIO 4343 AND 4341, Animal Embryology and Laboratory	4
STAT 3233, Applied Statistics I; OR CHEM 4243, Biochemistry	3
	26

Botany:	Sem. Hrs.
BIO 3532 AND 3531, Plant Taxonomy and Laboratory.....	3
BIO 3523 AND 3521, Plant Morphology Laboratory	4
BIO 4104, Microbiology.....	4
BIO 4513 AND 4511, Plant Physiology and Laboratory	4
STAT 3233, Applied Statistics I; OR CHEM 4243, Biochemistry	3
Botany electives	6
Biology elective	3
	28

Environmental Biology:	Sem. Hrs.
BIO 3532 AND 3531, Plant Taxonomy and Laboratory; OR BIO 3303 AND 3301, General Entomology and Laboratory; OR BIO 3322 AND 3332, Invertebrate Zoology and Laboratory	4
BIO 4133 AND 4131, Cell Biology and Cell Biology Laboratory; OR CHEM 4243 AND 4241, Biochemistry and Biochemistry Laboratory	4
BIO 4612, Legal Aspects of Environmental Management.....	2
BIO 4613, Conservation Biology	3
BIO 4623, Environmental Microbiology	3
BIO 4633, Environmental Toxicology: Mechanisms and Impacts.....	3
BIO 4643 AND 4641, Environmental Biology and Laboratory	4
STAT 3233, Applied Statistics I	3
Biological Sciences electives	9
	34-35

Pre-professional Studies:	Sem. Hrs.
BIO 3302 AND 3312, Comparative Anatomy and Laboratory AND BIO 3323 AND 3321, Animal Physiology and Laboratory; OR BIO 3223 AND 3221, Human Structure and Function I and Laboratory AND BIO 3233 AND 3231, Human Structure and Function II and Laboratory	8
BIO 4104, Microbiology.....	4
BIO 4133 AND 4131, Cell Biology and Cell Biology Laboratory; OR CHEM 4243, Biochemistry	3-4

Any three or more of the following:	Sem. Hrs.
BIO 4023, History of Biological Ideas	3
BIO 4103, Virology	3
BIO 4113 AND 4111, Immunology and Immunology Laboratory	4
BIO 4123, Cell Signaling	3
BIO 4133 AND 4131, Cell Biology and Cell Biology Laboratory	4
BIO 4143, Pharmacology	3
BIO 4163 AND 4161, Mammalian Neurobiology and Laboratory.....	4
BIO 4213 AND 4211, Human Genetics and Human Genetics Laboratory	4
BIO 4332 AND 4342, Animal Histology and Laboratory.....	4
BIO 4343 AND 4341, Animal Embryology and Laboratory.....	4
BIO 4552 AND 4551, Medical Mycology and Laboratory.....	3
BIO 4623 AND 4101, Environmental Microbiology and Laboratory	4
CHEM 3143, Physical Chemistry with Biological Applications	3
CHEM 4243, Biochemistry	3
PHIL 3713 Ethics in the Health Professions.....	3
STAT 3233, Applied Statistics I	3
	24-28

Zoology:	Sem. Hrs.
BIO 3302 AND 3312, Comparative Anatomy and Laboratory.....	4
BIO 3303 AND 3301, General Entomology and Laboratory; OR BIO 3322 AND 3332, Invertebrate Zoology and Laboratory	4
BIO 3323 AND 3321, Animal Physiology and Laboratory	4
BIO 4343 AND 4341, Animal Embryology and Laboratory.....	4
STAT 3233, Applied Statistics I; OR CHEM 4243, Biochemistry	3
Botany elective	3
Zoology elective	3
	25

Electives:	Sem. Hrs.
	0-15
Total	124-130

*If BOTH options are completed, the additional course(s) may count as an elective.

**Major in Wildlife Ecology and Management
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)
 HIST 2763, HIST 2773 **OR** POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:
 BIO 2013 **AND** 2011, Biology of the Cell and Laboratory
 CHEM 1013 **AND** 1011, General Chemistry I and Laboratory
 MATH 1054, Precalculus Mathematics (or MATH 1023 and MATH 1054 if Math ACT score less than 22)

Language Requirement:

Foreign Language (Refer to index for foreign language requirements) 0-6

Major Requirements:

	Sem. Hrs.
BIO 1303 AND 1301, Biology of Animals and Laboratory	4
BIO 1503 AND 1501, Biology of Plants and Laboratory	4
BIO 3013 AND 3311, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 3523 AND 3521, Plant Taxonomy and Laboratory	3
BIO 4021, Biological Seminar	1
BIO 4311 AND 4312, Fishery Biology and Laboratory; OR	
BIO 4402 AND 4401, Ichthyology and Laboratory; OR	
BIO 4603 AND 4601, Limnology and Laboratory	3-4
BIO 4352 AND 4351, Mammalogy and Laboratory	3
BIO 4373 AND 4371, Animal Ecology and Laboratory	4
BIO 4413, Wildlife Program Internship; OR BIO 4393, Special Problems in Biology	3
BIO 4423 AND 4421, Ornithology and Laboratory	4
BIO 4653 AND 4651, Wildlife Management and Laboratory	4
BIO 4663 AND 4661, Wildlife Management Investigational Techniques and Laboratory	4
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
MATH 2194, Survey of Calculus	4
STAT 3233, Applied Statistics I	3
Botany Elective; OR HORT 3253, Forestry	3
Communication Electives (functional writing, speech, journalism, use of mass media, etc., to be approved by advisor or chair)	6
Computer Applications, Computer Information Systems, Computer Science, OR Mathematics Elective (2000 level or above, to be approved by advisor or chair)	3
Environmental Biology Elective	3
Physical Sciences Elective (Geology or Geography 3000 or above; recommended courses: GEOG 3723, Introduction to Physical Geography; OR GEOG 3743, Introduction to Land Use Planning; OR GEOG 4613, Conservation of Natural Resources; OR GEOG 4623, Environmental Management)	3
Public Administration or Law Enforcement Electives	6
Zoology Elective	3
	82-83
Total	128-138

Minor in Biology

	Sem. Hrs.
Choose 2 of the following core lecture/lab combinations:	8
BIO 1303 AND 1301, Biology of Animals and Laboratory OR	
BIO 1503 AND 1501, Biology of Plants and Laboratory OR	
BIO 4133 AND 4131, Biology of the Cell and Laboratory*	
Biology Electives (3 Junior/Senior Level Courses) with laboratory	min 11
Total Min.	19

*Note: BIOL 1003 and 1001, Biological Science and Laboratory may be substituted for 1 of the core courses, but this is NOT recommended; Biological Science does NOT serve as a prerequisite for any junior/senior level electives, so choosing this course as one of the core courses may limit the choices of electives that students may choose.

Department of Chemistry and Physics

Professor John Pratte, Chair; Professors Allen, Draganjac, Hannigan, Sustich, Wyatt; Associate Professors Burns, Johnson, Kennon, Panigot, Reeve, Zhang; Assistant Professors Benjamin, Dowling, Lorence.

The courses in chemistry and physics are designed to prepare individuals for a variety of post-baccalaureate options. The Bachelor of Science degree is for individuals who are seeking employment as chemical or physical professionals, or who wish to continue studies toward a Masters or Ph.D. Students who are looking to pursue a further degree in law, medicine, dentistry, or pharmaceuticals will find either the B.S. degrees in chemistry or physics or the Bachelor of Arts in Chemistry as an option for entry into the appropriate post-baccalaureate program. The Bachelor of Science in Forensic Science degree will prepare students for a career in forensic science, while the Bachelor of Science Education degrees will lead to a rewarding career in secondary science education. In all of these programs, there are sufficient elective hours to allow students to customize their degrees for careers as diverse as technical librarians, salesman, writers, or translators.

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, students are recommended to take calculus-based physics.

The geology courses offered by the Department serve as enrichment courses that complement the other course offerings and prepare students for future studies in earth sciences.

Recommended Program for Pre-medical and Pre-dental Students

Students who wish to pursue a Doctor of Medicine or Doctor of Dentistry degree after finishing their baccalaureate studies are recommended to follow the program requirements for a Bachelor of Science in either chemistry or physics (see Pre-Professional Studies Emphasis Area in the listed degree requirements). Those who are seeking a Doctor of Pharmacy degree are recommended to pursue a Bachelor of Arts in Chemistry degree.

**Major in Chemistry
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 **OR** POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

Specific General Education Requirements:

Students with this major **must** take the following:

BIO 2013 **AND** 2011, Biology of the Cell and Laboratory

CHEM 1013 **AND** 1011, General Chemistry I and Laboratory

MATH 1054, Precalculus Mathematics; **OR** MATH 2204, Calculus I

Language Requirement:	Sem. Hrs.
Foreign Language (Refer to index for foreign language requirements)	0-6

Major Requirements:	Sem. Hrs.
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
CHEM 2002, Computers in Chemistry	2
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 AND 3111, Organic Chemistry II and Laboratory	4
CHEM 3124, Physical Chemistry	4
CHEM 3134, Physical Chemistry II	4
CHEM 4204, Inorganic Chemistry	4
CHEM 4224, Instrumentation	4
CHEM 4243, Biochemistry	3
CHEM 4271-2-3, Research in Chemistry	3
CHEM 4281, Chemistry Seminar	1
* MATH 2204, Calculus I	4
MATH 2214, Calculus II	4
MATH 3254, Calculus III	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
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* Required only if not taken to satisfy a part of the General Education Requirements	61-65
** American Chemical Society requires PHYS 2034 and PHYS 2044 for certified degree	

Emphasis Area: (Select one of the three options):

Chemistry:	Sem. Hrs.
Geology or Biological Sciences Elective	3
Electives	5-15
<hr/>	
	8-18

Environmental:	Sem. Hrs.
CHEM 4043, Environmental Chemistry	3
CHEM 4053, Geochemistry	3
GEOL 1003 AND 1001, Environmental Geology and Laboratory	4
GEOL 4333 AND 4331, Hydrogeology and Laboratory	4
Electives	0-4
<hr/>	
	10-18

Pre-professional Studies:	Sem. Hrs.
BIO 1303 AND 1301, Biology of Animals and Laboratory	4
Biology or Zoology Electives	8
Electives	0-6
<hr/>	
	12-18
<hr/>	
Total	125-138

**Major in Chemistry
Bachelor of Arts**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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

Specific General Education Requirements:

Students with this major must take the following:

CHEM 1013 AND CHEM 1013, General Chemistry I and Laboratory
MATH 1054, Precalculus Mathematics; OR MATH 2204, Calculus I

Language Requirement:	Sem. Hrs.
Foreign Language (Refer to index for foreign language requirements)	0-12

Major Requirements:	Sem. Hrs.
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 AND 3111, Organic Chemistry II and Laboratory	4
CHEM 3154, Survey of Physical Chemistry	4
CHEM 4234, Biochemistry	4
* MATH 2204, Calculus I	4
PHYS 2054, General Physics I, AND PHYS 2064 General Physics II; OR PHYS 2034, University Physics I, AND PHYS 2044, University Physics II	8
Biology or Geology Electives	6
<hr/>	
* Required only if not taken to satisfy a part of General Education Requirements	42-46

Emphasis Area: Pre-pharmacy

Additional Specific General Education Requirement	Sem. Hrs.
* BIO 1303 AND 1301, Biology of Animals and Laboratory	4
* BIO 2013 AND 2011, Biology of the Cell and Laboratory	4
BIO 4104, Microbiology	4
ECON 2313, Principles of Macroeconomics	3
<hr/>	
	15
<hr/>	
* Required only if not taken to satisfy a part of General Education Requirements	

Electives:	Sem. Hrs.
	2-36
<hr/>	
Total	124

**Major in General Science: Chemistry Emphasis
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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

Specific General Education Requirements:

Students with this major must take the following:

CHEM 1013 AND 1013, General Chemistry I and 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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Major Requirements:	Sem. Hrs.
<i>(The specific requirements listed above will not be counted in the major.)</i>	
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 AND 3111, Organic Chemistry II and Laboratory	4
CHEM 3154, Survey of Physical Chemistry	4
GEOG 3723, Introduction to Physical Geography.....	3
GEOL 1003, Environmental Geology	3
MATH 2204, Calculus I (if not taken as General Education requirement)	4
PHYS 1103, Introduction to Space Science OR PHYS 3133, Astronomy	3
PHYS 2034, University Physics I OR PHYS 2054, General Physics I	4
PHYS 2044, University Physics II OR PHYS 2064, General Physics II	4
	41-45

Professional Education Requirements:*	Sem. Hrs.
** EDSC 4593, Methods and Materials for Teaching Science in the Secondary School.....	3
* 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
** TICH 4826, Teaching Internship in the Secondary School.....	12
	33
* 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
SCOM 1203, Oral Communication	3
	6
Total	126-133

**Major in Physics
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)**
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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:	Sem. Hrs.
CS 2114, Structured Programming.....	4
CHEM 1013 AND 1011, General Chemistry I and Laboratory	4
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
MATH 2214, Calculus II.....	4
MATH 3254, Calculus III	4
MATH 4403, Differential Equations	3
PHYS 2044, University Physics II	4
PHYS 3103, Thermal Physics	3
PHYS 3153, Mechanics	3
PHYS 3203, Electromagnetic Theory.....	3
PHYS 3303, Modern Physics	3
PHYS 3253, Optics	3
Physics Laboratory Experience (Chosen from PHYS 3272 & 3282, Physical Instrumentation I & II, OR 4432 & 4442, Advanced Physics Laboratory I & II)	4
PHYS 4353, Mathematical Physics	3
PHYS 4553, Principles of Quantum Mechanics	3
PHYS 4693, Research in Physics-Capstone	3
	55

Electives:

	Sem. Hrs.
	18-24
Total	124

**Major in General Science: Physics Emphasis
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

- First Year Making Connections Course (or equivalent)**
 HIST 2763, HIST 2773 OR POSC 2103
 At least one HIST course in the General Education Core Courses
 'C' in ENG 1003 and ENG 1013 *
 BSE must have 'C' in MATH 1023
 45 Upper Level **AFTER 30 HOURS** *
 124 Earned Credit Hours *
 18 of the Last 24 Hours at ASU *
 32 Residence Hours *
 57 Hours with Accredited Senior Institutions *
 2.00 in ASU Coursework and Major Coursework *
 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees46-49

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
 MATH 2204, Calculus I
 PHYS 2034, University Physics I (Multimedia)
 POSC 2103, Introduction to United States Government
 PSY 2013, Introduction to Psychology

Major Requirements:

	Sem. Hrs.
CHEM 1013 AND 1011, General Chemistry I and Laboratory	4
CHEM 1023 AND 1011, General Chemistry II and Laboratory	4
CS 2114, Structured Programming.....	4
GEOG 3723, Introduction to Physical Geography.....	3
GEOL 1003, Environmental Geology	3
MATH 2214, Calculus II.....	4
MATH 3254, Calculus III	4
MATH 4403, Differential Equations	3
PHYS 1103, Introduction to Space Science OR PHYS 3133, Astronomy	3
PHYS 2044, University Physics II	4
PHYS 3153, Mechanics	3
PHYS 3203, Electromagnetic Theory.....	3
PHYS 3303, Modern Physics	3
	45

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Professional Education Requirements:*

	Sem. Hrs.
** EDSC 4593, Methods and Materials for Teaching Science in the Secondary School.....	3
* 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
** TIPH 4826, Teaching Internship in the Secondary School	12
	33
* 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
SCOM 1203, Oral Communication	3
	6
Total	131-134

Minor in Chemistry

	Sem. Hrs.
CHEM 1013 AND 1011, General Chemistry I and Laboratory	4
CHEM 1023 AND 1021, General Chemistry II and Laboratory.....	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 AND 3111, Organic Chemistry II and Laboratory	4
Choose two of the following (8 semester hours)	8
CHEM 3054, Quantitative Analysis	
CHEM 3124, Physical Chemistry	
CHEM 4243 AND 4241, Biochemistry and Laboratory	
	24

Minor in Physics

	Sem. Hrs.
PHYS 2034, University Physics I	4
PHYS 2044, University Physics II	4
PHYS 3303, Modern Physics	3
Physics Electives (Junior-Senior level, excluding PHYS 3133)	6
	17

BACHELOR OF SCIENCE IN FORENSIC SCIENCE

The Bachelor of Science in Forensic Science is a cross-disciplinary degree featuring courses in the College of 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 125 hours for graduation, including a core of 10 hours plus an additional 6 hours in criminology, 39 of fundamental science courses, and 7 hours of math and statistics. The program offers a general degree plan as well as two emphases: Forensic Chemistry or Forensic Biology. Students are required to complete an internship as part of the core and will have the opportunity to select electives reflecting their specific interests.

Individuals interested in the program should contact the Forensic Science program for additional information (<http://forensics.astate.edu>).

**Major in Forensic Science
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level AFTER 30 HOURS *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

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

NOTE: All Forensic Science majors are required to complete the following General Education Courses

BIO 2103 AND 2011, Biology of the Cell and Laboratory	4
CHEM 1013 AND 1011, General Chemistry and Laboratory	4
MATH 1054, Precalculus	4
PSY 2103, Intro to Psychology.....	3
SCOM 1203, Speech Communication	3
SOC 2213, Principles of Sociology	3

General Degree Option

Major Requirements:

	Sem. Hrs.
CHEM 1023 AND 1021, General Chemistry II and Laboratory	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 AND 3111, Organic Chemistry II and Laboratory	4
CRIM 2253, Criminal Investigation	3
CRIM 2263, Criminal Evidence and Procedure	3
FOSC 2013, Forensic Science Survey	3
FOSC 2113, Forensic Science Professional Practice	3
FOSC 411V, Forensic Science Internship/Research	4-6
MATH 2204, Calculus I OR MATH 2194, Survey of Calculus	4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
STAT 3233, Applied Statistics I.....	3

Electives:

32 hours of 3000/4000 level elective courses in Forensic Science, Biological Science
Chemistry, Psychology, or Criminology. A minimum of 15 hours must be in the sciences. 32

Total 125-127

Biology Emphasis Requirement

Major Requirements:	Sem. Hrs.
BIO 2203 AND 2201, Human Anatomy I and Laboratory.....	4
BIO 2223 AND 2221, Human Anatomy II and Laboratory.....	4
BIO 3223 AND 3221, Human Structure and Function I and Laboratory.....	4
BIO 3233 AND 3231, Human Structure and Function II and Laboratory.....	4
BIO 3013 AND 3011, Genetics Lecture and Laboratory.....	4
BIO 4213 AND 4211, Human Genetics Lecture and Laboratory.....	4
CHEM 1023 AND 1021, General Chemistry II and Laboratory.....	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory.....	4
CHEM 3113 AND 3113, Organic Chemistry II and Laboratory.....	4
CRIM 2253, Criminal Investigation.....	3
CRIM 2263, Criminal Evidence and Procedure.....	3
FOSC 2013, Forensic Science Survey.....	3
FOSC 2113, Forensic Science Professional Practice.....	3
FOSC 411V, Forensic Science Internship/Research.....	4-6
MATH 2204, Calculus I OR MATH 2194, Survey of Calculus.....	4
PHYS 2054, General Physics I.....	4
PHYS 2064, General Physics II.....	4
STAT 3233, Applied Statistics I.....	3

Electives:

20 hours of 3000/4000 level elective courses in Forensic Science or Biological Science.....	20
Total	125-127

Chemistry Emphasis Requirement

Major Requirements:	Sem. Hrs.
BIO 3013 AND 3011, Genetics Lecture and Laboratory.....	4
BIO 4213 AND 4211, Human Genetics Lecture and Laboratory.....	4
CHEM 1023 AND 1021, General Chemistry II and Laboratory.....	4
CHEM 2004, Descriptive Inorganic.....	4
CHEM 3054, Quantitative Analysis.....	4
CHEM 3103 AND 3101, Organic Chemistry I and Laboratory.....	4
CHEM 3113 AND 3113, Organic Chemistry II and Laboratory.....	4
CHEM 3154, Survey of Physical Chemistry.....	4
CHEM 4243 AND 4241, Biochemistry and Laboratory.....	4
CRIM 2253, Criminal Investigation.....	3
CRIM 2263, Criminal Evidence and Procedure.....	3
FOSC 2013, Forensic Science Survey.....	3
FOSC 2113, Forensic Science Professional Practice.....	3
FOSC 411V, Forensic Science Internship/Research.....	4-6
MATH 2204, Calculus I OR MATH 2194, Survey of Calculus.....	4
PHYS 2054, General Physics I.....	4
PHYS 2064, General Physics II.....	4
STAT 3233, Applied Statistics I.....	3

Electives:

20 hours of 3000/4000 level elective courses in Forensic Science or Chemical Science.....	20
Total	125-127

Department of Computer Science

Associate Professor Jeff Jenness, Chair; Associate Professors Hammerand, Su; Assistant Professors Huang, Jiang; Instructors Causey, Scrivner, 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**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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:

	Sem. Hrs.
CS 1114, Concepts of Programming.....	4
CS 2114, Structured Programming.....	4
CS 2124, Object Oriented Programming.....	4
CS 3113, Data Structures.....	3
CS 3233, Operating Systems.....	3
CS 4113, Software Engineering I.....	3
CS 4123, Software Engineering II.....	3
CS 4313, Computer Networks.....	3
CS 4543, Database Systems.....	3
MATH 2183, Discrete Structures.....	3
MATH 2204, Calculus I, or MATH 2143, Business Calculus, or MATH 2194, Survey of Calculus.....	3
PHIL 3723, Computers, Ethics, and Society.....	3
STAT 3233, Applied Statistics I.....	3
Computer Science Electives (except CS 1013, may include MATH 4533).....	9

51

Electives:

Sem. Hrs.
15-27

Total 124

**Major in Computer Science
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses
'C' in ENG 1003 and ENG 1013 *
BSE must have 'C' in MATH 1023
45 Upper Level **AFTER 30 HOURS** *
124 Earned Credit Hours *
18 of the Last 24 Hours at ASU *
32 Residence Hours *
57 Hours with Accredited Senior Institutions *
2.00 in ASU Coursework and Major Coursework *
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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 **AND** CHEM 1011, General Chemistry I
MATH 2204, Calculus I
PHYS 2034, University Physics I..... 12

Language Requirement:

Foreign Language (Refer to index for foreign language requirements) 0-6

Major Requirements:

	Sem. Hrs.
CS 2114, Structured Programming.....	4
CS 2124, Object Oriented Programming.....	4
CS 3113, Data Structures.....	3
CS 3123, Programming Languages.....	3
CS 3213, Assembly Language Programming.....	3
CS 3223, Computer Architecture.....	3
CS 3233, Operating Systems.....	3
CS 4113, Software Engineering I.....	3
CS 4123, Software Engineering II.....	3
EE 3333, Digital Electronics I.....	3
MATH 2183, Discrete Structures.....	3
MATH 2214, Calculus II.....	4
MATH 3254, Calculus III.....	4
PHIL 3723, Computers, Ethics, and Society.....	3
PHYS 2083 AND 2081, Fundamental Physics II and Laboratory; OR PHYS 2044, University Physics II.....	4
STAT 4453, Probability and Statistics I.....	3
Computer Science Electives (except CS 1013 and CS 1114) may include MATH 4533.....	12
Science Requirement: (one of the following).....	4
BIO 1303 AND 1301, Biology of Animals	
BIO 1503 AND 1501, Biology of Plants	
BIO 2013 AND 2011, Biology of the Cell	
	67

Electives:

	Sem. Hrs.
	5-11
Total	124

Minor in Computer Science

	Sem. Hrs.
Computer Science Electives.....	18
(12 hours must be Junior-Senior level)	
Total	18

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

Department of Mathematics & Statistics

Associate Professor Debra Ingram, Chair; Professor Paulsen; Associate Professors Hall, Melescue, Miao; Assistant Professors Choi, Zhou

The course offerings in the department are designed to provide students with the broad background necessary for employment in industry, government, education, or as a basis for graduate study.

**Major in Mathematics
Bachelor of Science in Education**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103
At least one HIST course in the General Education Core Courses
'C' in ENG 1003 and ENG 1013 *
BSE must have 'C' in MATH 1023
45 Upper Level **AFTER 30 HOURS** *
124 Earned Credit Hours *
18 of the Last 24 Hours at ASU *
32 Residence Hours *
57 Hours with Accredited Senior Institutions *
2.00 in ASU Coursework and Major Coursework *
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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
MATH 2204, Calculus I
PHYS 2034, University Physics I **OR** PHYS 2054, General Physics I
POSC 2103, Introduction to United States Government
PSY 2013, Introduction to Psychology

Major Requirements:

	Sem. Hrs.
MATH 2183, Discrete Structures.....	3
MATH 2214, Calculus II.....	4
MATH 3254, Calculus III.....	4
MATH 3243, Linear Algebra.....	3
MATH 3303, Modern Algebra I.....	3
MATH 3323, Mathematics Modeling.....	3
MATH 3343, College Geometry.....	3
MATH 3353, History of Mathematics.....	3
MATH 4453, Advanced Calculus I.....	3
STAT 3233, Applied Statistics I.....	3
STAT 4453, Probability and Statistics I.....	3
	35

Additional Departmental Requirements:

	Sem. Hrs.
PHYS 2044, University Physics II or PHYS 2064, General Physics II.....	4
Computer Science Elective.....	3
	7

Professional Education Requirements:*

	Sem. Hrs.
** EDMA 4563, Methods and Materials for Teaching Mathematics in the Secondary School.....	3
* PSY 3703, Educational Psychology.....	3
SCED 2514, Introduction to Secondary Teaching.....	4
** SCED 4515, Performance Based Instructional Design.....	5
** SCED 4713, Educational Measurement with Computer Applications.....	3
SE 3643, The Exceptional Student in the Regular Classroom.....	3
** TIMA 4826, Teaching Internship in the Secondary School.....	12
	33

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

** Prerequisite: Admission into the Teacher Education Program

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Additional General Requirements for Teacher Education:	Sem. Hrs.
HLTH 2513, Principles of Personal Health	3
	<u>3</u>
Total	131-135

**Major in Mathematics
Bachelor of Science**

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level **AFTER 30 HOURS** *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

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

Specific General Education Requirements:

Students with this major **must** take the following:

MATH 2204, Calculus I

PHYS 2034, University Physics I

Language Requirement:	Sem. Hrs.
Foreign Language (Refer to index for foreign language requirements)	0-6

Major Requirements:	Sem. Hrs.
CS 2114, Structured Programming	4
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
MATH 3243, Linear Algebra	3
MATH 3303, Modern Algebra I	3
MATH 4403, Differential Equations	3
MATH 4553, Advanced Calculus I	3
PHYS 2044, University Physics II	4
STAT 4453, Probability and Statistics I	3
Mathematics or Statistics Electives*	9
	<u>40</u>

* Selected from MATH 3273, MATH 3323, MATH 3343, MATH 3353, MATH 4423, MATH 4513, MATH 4533, MATH 4563, STAT 4463

Electives:	Sem. Hrs.
	33-39
Total	124-127

Minor in Mathematics

	Sem. Hrs.
MATH 2204, Calculus I	4
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
Mathematics or Statistics Electives: (select two from the following)	
MATH 3243, MATH 3303, MATH 3323, MATH 3343, MATH 4403, MATH 4423, MATH 4513, MATH 4533, MATH 4553, MATH 4563, STAT 4453, or STAT 4463	8
Total	<u>20</u>

Minor in Statistics

	Sem. Hrs.
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
STAT 3233, Applied Statistics I	3
STAT 4453, Probability and Statistics I	3
STAT 4463, Probability and Statistics II	3
STAT 4473, Applied Statistics II	3
Total	<u>20</u>

Library and Information Resources

Dr. George C. Grant, Dean of Library Information Resources

Library faculty: L. Creibaum, W. Crist, J. Bailey, B. Banta, L. Downing, J. Dunlap, S. Eskridge, T. Farmer, M. Flugstad, J. Foreman, D. Hallett, H. Kubo, R. Payne, A. Sheppard.

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.

Department of Military Science and Leadership

The faculty of the Department of Military Science at Arkansas State consists of: A Professor of Military Science (usually a Lieutenant Colonel); Three Assistant Professors (usually a Major and two Captains); and Two Instructors (usually a Master Sergeant and a Sergeant First Class). Their tours with the department last from two to three years.

GENERAL INFORMATION

The Army Reserve Officers' Training Corps (ROTC), is a series of elective college courses, 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 Military Science and Leadership (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. The 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 have their packets completed by 15 November of their senior year. Three-year and two-year scholarship applications must be completed by the spring semester, prior to the first school year of the scholarship.
2. Subsistence Allowance:
A monthly monetary allowance of \$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.

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	Sem. Hrs
A. *Basic Course	6 hrs
MSL 1011, Foundations of Officership	1 hr
MSL 1021, Basic Leadership	1 hr
MSL 2032, Individual Leadership Studies	2 hrs
MSL 2042, Leadership and Teamwork.....	2 hrs
B. Advanced Course.....	12 hrs
MSL 3053, Leadership and Problem Solving.....	3 hrs
MSL 3063, Leadership and Ethics	3 hrs
MSL 4073, Leadership and Management.....	3 hrs
MSL 4083, Officership.....	3 hrs
C. Military History Course	2-3 hrs
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.

Cross-College Programs

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 125 hours for graduation, including a core of 10 hours plus an additional 6 hours in criminology, 39 of fundamental science courses, and 7 hours of math and statistics. The program offers a general degree plan as well as two emphases: Forensic Chemistry or Forensic Biology. Students are required to complete an internship as part of the core and will have the opportunity to select electives reflecting their specific interests.

Individuals interested in the program should contact the Forensic Science program for additional information (<http://forensics.astate.edu>).

Major in Forensic Science Bachelor of Science

A complete 8-semester degree plan is available at <http://registrar.astate.edu/>.

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2763, HIST 2773 OR POSC 2103

At least one HIST course in the General Education Core Courses

'C' in ENG 1003 and ENG 1013 *

BSE must have 'C' in MATH 1023

45 Upper Level AFTER 30 HOURS *

124 Earned Credit Hours *

18 of the Last 24 Hours at ASU *

32 Residence Hours *

57 Hours with Accredited Senior Institutions *

2.00 in ASU Coursework and Major Coursework *

31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees 46

NOTE: All Forensic Science majors are required to complete the following General Education Courses

BIO 2103 AND 2011, Biology of the Cell and Laboratory 4

CHEM 1013 AND 1011, General Chemistry and Laboratory 4

MATH 1054, Precalculus 4

PSY 2103, Intro to Psychology 3

SCOM 1203, Speech Communication 3

SOC 2213, Principles of Sociology 3

General Degree Option

Major Requirements:

Sem. Hrs.

CHEM 1023 AND 1021, General Chemistry II and Laboratory 4

CHEM 3103 AND 3101, Organic Chemistry I and Laboratory 4

CHEM 3113 AND 3113, Organic Chemistry II and Laboratory 4

CRIM 2253, Criminal Investigation 3

CRIM 2263, Criminal Evidence and Procedure 3

FOSC 2013, Forensic Science Survey 3

FOSC 2113, Forensic Science Professional Practice 3

FOSC 411V, Forensic Science Internship/Research 4-6

MATH 2204, Calculus I OR MATH 2194, Survey of Calculus 4

PHYS 2054, General Physics I 4

PHYS 2064, General Physics II 4

STAT 3233, Applied Statistics I 3

Electives:

32 hours of 3000/4000 level elective courses in Forensic Science, Biological Science

Chemistry, Psychology, or Criminology. A minimum of 15 hours must be in the sciences. 32

Total 125-127

Biology Emphasis Requirement

Major Requirements:

Sem. Hrs.

BIO 2203 AND 2201, Human Anatomy/Physiology I and Laboratory 4

BIO 2223 AND 2221, Human Anatomy/Physiology II and Laboratory 4

BIO 3013 AND 3011, Genetics Lecture and Laboratory 4

BIO 3223 AND 3221, Human Structure and Function I and Laboratory 4

BIO 3233 AND 3231, Human Structure and Function II and Laboratory 4

BIO 4213 AND 4211, Human Genetics Lecture and Laboratory 4

CHEM 1023 AND 1021, General Chemistry II and Laboratory 4

CHEM 3103 AND 3101, Organic Chemistry I and Laboratory 4

CHEM 3113 AND 3113, Organic Chemistry II and Laboratory 4

CRIM 2253, Criminal Investigation 3

CRIM 2263, Criminal Evidence and Procedure 3

FOSC 2013, Forensic Science Survey 3

FOSC 2113, Forensic Science Professional Practice 3

FOSC 411V, Forensic Science Internship/Research 4-6

MATH 2204, Calculus I OR MATH 2194, Survey of Calculus 4

PHYS 2054, General Physics I 4

PHYS 2064, General Physics II 4

STAT 3233, Applied Statistics I 3

Electives:

20 hours of 3000/4000 level elective courses in Forensic Science or Biological Science. 20

Total 125-127

Chemistry Emphasis Requirement

Major Requirements:

Sem. Hrs.

BIO 3013 AND 3011, Genetics Lecture and Laboratory 4

BIO 4213 AND 4211, Human Genetics Lecture and Laboratory 4

CHEM 1023 AND 1021, General Chemistry II and Laboratory 4

CHEM 2004, Descriptive Inorganic 4

CHEM 3054, Quantitative Analysis 4

CHEM 3103 AND 3101, Organic Chemistry I and Laboratory 4

CHEM 3113 AND 3113, Organic Chemistry II and Laboratory 4

CHEM 3154, Survey of Physical Chemistry 4

CHEM 4243 AND 4241, Biochemistry and Laboratory 4

CRIM 2253, Criminal Investigation 3

CRIM 2263, Criminal Evidence and Procedure 3

FOSC 2013, Forensic Science Survey 3

FOSC 2113, Forensic Science Professional Practice 3

FOSC 411V, Forensic Science Internship/Research 4-6

MATH 2204, Calculus I OR MATH 2194, Survey of Calculus 4

PHYS 2054, General Physics I 4

PHYS 2064, General Physics II 4

STAT 3233, Applied Statistics I 3

Electives:

20 hours of 3000/4000 level elective courses in Forensic Science or Chemical Science. 20

Total 125-127

Center for Regional Programs

Dr. 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 Jonesboro 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, businesses, and communities in Arkansas so the resources and programs of Arkansas State University Jonesboro 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, and services to industry, public schools, and Arkansas two-year colleges.

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 East Arkansas Community College in Forrest City 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 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.A. Criminology - B.S. Agriculture - B.S. Business Administration - B.S. Business Management - B.S. Clinical Laboratory Science. - B.S. Manufacturing-Industrial Technology - B.S.E. Early Childhood Education (P-4 Level) - B.S.E. Mid-Level Education (4-8) - M.B.A. Business - M.S.E. Curriculum and Instruction - M.S.E. Educational Leadership.

Arkansas State University Mountain Home degrees offered are A.A.S.N. Nursing (LPN/RN Transition) - A.A.S.N. Nursing - B.A. Criminology - B.S. Business Management - B.S.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.

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.

**Associate in Applied Science
Major in Automotive Service Technology**

General Education Requirements:	Sem. Hrs.
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
SOC 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology.....	3
Fine Arts or Humanities Elective	3
Natural Science Elective with Lab	4
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	27
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 2108, 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
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	62*
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Total	89

*Hours include extensive hands-on laboratory work

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

**Associate in Applied Science
Major in Business Technology**

General Education Requirements:	Sem. Hrs.
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
SOC 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology.....	3
Fine Arts or Humanities Elective	3
Natural Science Elective with Lab	4
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	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 II.....	3
BUS 1503, Word/Information Processing I.....	3
BUS Elective	3
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	39
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Total	66

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
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	39
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Total	66

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
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	39
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Total	66

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**Associate in Applied Science
Major in Digital Electronic Technology**

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 1023, College Algebra	3
PE 1002, Concepts of Fitness	2
SOC 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology.....	3
Fine Arts or Humanities Elective	3
Natural Science Elective with Lab	4
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27	
Major Requirements:	
COM 1203, Technical Communications	3
ECT 1303, Electronic Motors and Programmable Controls.....	3
ECT 1333, Programmable Logic Controllers.....	3
ELT 1105, AC Circuits.....	5
ELT 1205, DC Circuits.....	5
ELT 1605, Digital Logic.....	5
ELT 1652, Programming.....	2
ELT 1705, Analog Devices.....	5
ELT 1755, CISCO Router Configurations.....	5
ELT 1805, Network Essentials.....	5
ELT 1905, Cabling Techniques/Methods/Standards.....	5
ELT 2305, PC Troubleshooting and Repair.....	5
ELT 2404, PC Troubleshooting and Repair II.....	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
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76	
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Total	103

**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 1023, College Algebra	3
PE 1002, Concepts of Fitness	2
SOC 2213, Principles of Sociology OR PSY 2013, Introduction to Psychology.....	3
Fine Arts or Humanities Elective	3
Natural Science Elective with Lab	4
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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	2
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 III	1
EHS 2504, Clinical II	4
EHS 2603, Field II	3
EHS 2702, Medical Emergencies II.....	2
EHS 2801, Paramedic Practicum.....	1
EHS 2802, Assessment Based Management	2
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49	
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Total	76

The Faculty (as of July 1, 2008)

HARRIETTE ADAMS, 1996 Instructor in Physical Education
B.S.E., Arkansas State University
M.S., Arkansas State University

THOMAS MYERS ADAMS, II, 1981 Professor of Physical Education
B.S., East Carolina University
M.A., East Carolina University
Ed.D., West Virginia University

TROY ADAMS, 2007 Professor of Sociology
—Chair, Department of Criminology, Sociology
and Geography
B.S., Eastern Michigan University
M.A., Eastern Michigan University
Ph.D., University of Michigan

DAVID AGNEW, 1990 Associate Professor of Agricultural Education
B.S.A.E., University of Tennessee—Martin
M.Ed., Mississippi State University
Ed.D., Mississippi State University

SOOHYOUN AHN, 2006 Associate Professor of Food Science
B.S., Yonsei University, South Korea
M.S., Yonsei University, South Korea
Ph.D., Cornell University

ROY ALDRIDGE, 2000 Associate Professor of Physical Therapy
B.S., University of Tennessee—Memphis

MARTI LU ALLEN Director of ASU Museum
B.A., University of Missouri—Columbia
M.A., Michigan—Ann Arbor
Ph.D., University of Michigan—Ann Arbor

SUSAN DAVIS ALLEN, 2002 Distinguished Professor of Laser Applications and Science
B.S., Colorado College
Ph.D., University of Southern California

WILLIAM J. ALLEN, 1979 Professor of Art History
B.A., University of Alabama
M.A., The Johns Hopkins University
Ph.D., The Johns Hopkins University

STACY ALLEY, 2003 Assistant Professor of Theatre-Voice and Movement
B.A., University of Southern California—Los Angeles
M.F.A., University of Alabama—Tuscaloosa

OSABUOHEN P. AMIENYI, 1989 Professor of Radio-Television
—Chair, Department of Radio-Television
B.S., Tennessee State University
M.A., Northern Illinois University
Ph.D., Bowling Green State University

BRENDA ANDERSON, 2007 Assistant Professor of Nursing
B.S.N., Arkansas State University
M.S.N., Arkansas State University

ROBIN L. ANDERSON, 1976 Professor of History
A.B., University of California—Berkeley
M.A., University of California—Berkeley
Ph.D., University of California—Davis

SUSAN ANSELM, 2005 Temporary Instructor in Early Childhood Education —Mt. Home
B.S.E., Southeast Missouri State University
M.S., University of Central Arkansas

PAUL ARMAH, 1997 Professor of Agricultural Economics
B.Sc., University of Ghana
M.Sc., University College of Wales
Ph.D., University College of Wales

NANCY EUBANKS BACOT, 1972 Instructor in Teacher Education
B.S., University of Mississippi
M.A., University of Mississippi
Ed.S., University of Mississippi

CAGRI BAGCIOGLU, 2008 Assistant to the Vice Chancellor for Academic Affairs and Research
for International Programs and Special Projects
B.B.A., University of North Alabama
M.B.A., University of North Alabama

THOMAS N. BAGLAN, 1980 Professor of Communication Studies
—Chair, Department of Communication Studies
B.A., University of Kentucky
M.A., University of Kentucky
Ph.D., Florida State University

JEFFREY R. BAILEY, 1992 Public Services Librarian
and Team Leader
B.A., Morehead State University
M.L.S., Clarion University of Pennsylvania

DARLENE BAKER, 1990 Assistant Professor of Nursing
A.D.N., Arkansas State University
B.S.N., University of Central Arkansas
M.N.Sc., University of Arkansas for Medical Sciences
Ed.D., University of Memphis

TEMMA BALDUCCI, 2004 Assistant Professor of Art History
B.S., Mississippi State University
M.A., University of Alabama at Birmingham
Ph.D. University of Kansas

JERRY BALL, 1990 Professor of English
B.A., Arkansas State University
M.A., Arkansas State University
Ph.D., University of Tennessee

BRADY BANTA, 1997 Associate Professor of History
—Archivist, Library & Information Resources
—Acting Director, Heritage Studies Doctoral Program
B.S., Missouri Valley College
M.A., Louisiana State University
Ph.D., Louisiana State University
M.L.I.S., Louisiana State University

DEANNA BARYMON, 2007 Temporary Instructor in Radiologic Sciences
B.S., Arkansas State University

NEALE K. BARTEE, 1973 Professor of Music
B.S., University of Illinois
M.Ed., University of Illinois
Ph.D., University of Illinois

ROBERT C. BAUM, 1993 Associate Professor of Spanish
B.S.E., Northeast Missouri State University
M.A., University of Missouri—Columbia
Ph.D., University of Missouri—Columbia

JAMES C. BEDNARZ, 1993 Professor of Wildlife Ecology
B.S., New Mexico State University
M.S., Iowa State University
Ph.D., University of New Mexico

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

ELLIS BENJAMIN, 2007 B.S., Richard Stockton College M.S., Delaware State University Ph.D., Morgan State University	Assistant Professor of Chemistry	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
BOBBY D. BENNETT, 1991 B.S., Elmira College Ph.D., Louisiana State University	Associate Professor of Environmental Biology —Director, Geographic Information System Facility	GLORIA BRIDGES, 2001 B.S.E., Arkansas State University M.E., Arkansas State University	Instructor in Developmental Studies
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 —Coordinator, COB Internships	WINFRED P. BRIDGES, 1990 B.S.E., Arkansas State University M.Div., Southern Theological Seminary M.A., Arkansas State University	Temporary Instructor in English
JEROME BIEBESHEIMER, 2000 B.M., University of Iowa—Iowa City M.F.A., University of Iowa—Iowa City	Director of The Fowler Center	ALEXANDER BROWN, 2005 B.F.A., University of Oklahoma M.M.D., Florida State University M.A., University of Kansas	Instructor in Radio-Television
DANA BINGHAM, 2004 B.S.Ed., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Mathematics	CHRISTOPHER R. BROWN, 1990 B.A., University of Tennessee—Knoxville M.A., University of Tennessee—Knoxville Ph.D., University of Tennessee—Knoxville	Professor of Economics
KRISTIN BIONDOLILLO, 1991 B.A., West Virginia University M.S., Southern Illinois University—Carbondale Ph.D., Southern Illinois University—Carbondale	Associate Professor of Psychology	LANCE BRYANT, 2007 B.S., Mississippi State University M.S., Mississippi State University Ph.D., University of Alabama	Instructor in Physical Education
JUDY KAY BLEVINS, 2003 B.A., Ouachita Baptist University M.A., Arkansas State University S.C.C.T., Arkansas State University	Coordinator of ASU's Paragould Site	ROGER A. BUCHANAN, 1992 B.A., University of Delaware Ph.D., University of Delaware	Professor of Zoology —Director, Molecular BioSciences Doctoral Program
KAREN BLUE, 1998 B.S.N., University of Central Arkansas	Assistant Professor of Nursing	RICHARD BURNS, 1993 B.A., University of Texas B.S., University of Texas M.A., University of Texas Ph.D., University of Texas	Associate Professor of English and Folklore
TIMOTHY BOHN, 2008 B.A., University of Wisconsin M.F.A., University of North Carolina	Assistant Professor of Theatre	WILLIAM A. BURNS, 1995 B.S., Drake University Ph.D., University of Minnesota	Associate Professor of Chemistry
JOE DAVID BONNER, 1984 B.A., University of Houston M.A., Stephen F. Austin State University	Assistant Professor of Music	KAREN BUSBY, 2005 B.A., Christian Brothers University	Secondary Mathematics Instructional Specialist
MICHAEL BOTTS, 2008 B.S., University of Central Arkansas M.S., Illinois State University Ph.D., American University	Assistant Professor of Criminology	CAREY BYARS, 2008 B.S., Arkansas State University M.S., Arkansas State University M.F.A., National University - San Diego	Temporary Assistant Professor of Radio-Television
STEVE BOUNDS, 2007 B.S., Oklahoma Christian University M.S., Arkansas State University Ph.D., Arkansas State University	Assistant Professor of Educational Leadership	HOLLY HALL BYARS, 2008 B.A., Arkansas State University M.A., University of Missouri - Columbia J.D., University of Arkansas at Little Rock	Assistant Professor of Journalism
AUDREY BOWSER-BROWN, 1998 B.S.E., Arkansas State University M.S.E., Arkansas State University	Instructor in Technology and Secondary Education	DONNA CALDWELL, 2004 B.S., University of Central Arkansas M.Ed., University of Arkansas at Little Rock	Assistant Professor of Radiologic Sciences
PAULA BRADBERRY, 1993 B.A., Arkansas Tech University M.R.C., Arkansas State University	Instructor/Director of First Year Studies	CATHERINE CALLOWAY, 1983 B.A., High Point College M.A., Arkansas State University Ph.D., University of South Florida	Professor of English
MARY JANE BRADLEY, 1987 B.S.E., Arkansas State University M.S.E., Arkansas State University Ed.S., Arkansas State University Ed.D., Memphis State University	Associate Professor of Education —Director of Professional Education Programs		

- SUSAN CAMPBELL, 2003**
B.S.N., University of North Carolina
M.A.E., Tulane University
M.S.N.A., Xavier University
Assistant Professor of Nursing
—Coordinator, Nurse Anesthesia Program
- MATTHEW CAREY, 1997**
B.M., Oberlin Conservatory of Music
M.M., University of Michigan School of Music
Assistant Professor of Music
- ROGER G. CARLISLE, 1974**
B.F.A., University of Nebraska
M.F.A., University of Nebraska
Professor of Art
- CHARLES R. CARR II, 1975**
B.A., Colorado State University
M.A., University of Arizona
Ph.D., University of Arizona
Professor of Philosophy
—Chair, Department of English and Philosophy
—Chair, Department of Languages
- REBECCA CARR, 1988**
B.A., University of Arizona
B.S., Arkansas State University
M.Act., Arkansas State University
M.S., University of Illinois
Instructor in Real Estate & Accounting
- 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
- KENNETH CARROLL, 2002**
B.A., Arkansas Tech University
M.M., University of Georgia
D.M.A., University of Georgia
Assistant Professor of Music
—Assistant Director of Bands
- JASON CAUSEY, 2003**
B.S., Arkansas State University
M.S., Arkansas State University
Temporary Instructor in Computer Science
- ERIC M. CAVE, 1995**
B.A., Trinity University
M.A., University of California—Irvine
Ph.D., University of California—Irvine
Associate Professor of Philosophy
- THOMAS H. CHAFFEE, 1968**
B.A., Dominican College
M.F.A., University of Wisconsin
Professor of Art
- ERICK CHANG, 2007**
B.A. and Licenciatura, Universidad Francisco Marroquin-Guatemala
M.B.A., Texas Christian University—Fort Worth
Ph.D., Mississippi State University
Assistant Professor of Management
- DEBORAH K. CHAPPEL, 1991**
B.S.E., Arkansas State University
M.A., Duke University
Ph.D., Duke University
Associate Professor of English
- NOLA CHRISTENBERRY, 1988**
B.S.E., Arkansas State University
M.S.E., Arkansas State University
Ed.S., Arkansas State University
Ph.D., Memphis State University
Associate Professor of Psychology
and Counseling
—Coordinator, Graduate Counseling Programs
- LESLIE CHRISTENSEN, 1998**
B.F.A., University of Iowa
M.A., Arkansas State University
Instructor in Art
—Director, Bradbury Gallery
- ALAN CHRISTIAN, 2002**
B.S., University of Wisconsin
M.S., Arkansas State University
Ph.D., Miami University
Assistant Professor of Aquatic Biology
- 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
Associate Professor of Criminology
- BRIAN CHURCH, 2003**
B.S., Murray State University
M.A., Murray State University
Ph.D., University of Alabama
Assistant Professor of Physical Education
- LAUREN SCHACK CLARK, 2003**
B.M., University of Hartford
M.A., Longy School of Music
M.M., Northwestern University
D.M.A., Boston University
Assistant Professor of Music
- LINDA DAVIS CLARK, 1970**
B.A., Central Methodist College
M.A., Memphis State University
Assistant Professor of Communication Studies
- LORI CLAY, 2006**
B.S.N., Arkansas State University
M.S.N., Arkansas State University
Assistant Professor of Nursing
- KEITH CLEMENT, 2001**
B.A., San Diego State University
M.A., San Diego State University
Ph.D., University of Tennessee—Knoxville
Temporary Assistant Professor of Criminology
- WILLIAM M. CLEMENTS, 1971**
B.A., University of Texas—Austin
M.A., Indiana University
Ph.D., Indiana University
Professor of English and Folklore
—Editor, *The Arkansas Review*
- RICKY C. CLIFFT, 1980**
B.S., University of Arkansas—Fayetteville
M.S., University of Arkansas—Fayetteville
Ph.D., University of Houston
Professor of Civil & Environmental Engineering
—Associate Dean, College of Engineering
- DANIEL CLINE, 1992**
B.A., University of Nevada
M.A., University of Michigan
Ed.D., Indiana University
Professor of Education
- FAYE COCCHIARA, 2007**
B.B.A., University of Texas at Arlington
M.S., University of Texas at Arlington
Ph.D., University of Texas at Arlington
Assistant Professor of Management
- AMANDA COLEMAN, 2008**
B.S., Oklahoma State University
M.S., Oklahoma State University
Ph.D., University of Oregon
Assistant Professor of Geography
- CHARLES RONALD COLEMAN, 1991**
B.S.E., University of Arkansas
M.S., Arkansas State University
S.C.C.T., Arkansas State University
Doctor of Ministry, Evangel Christian University of America
Instructor in Mechanical Engineering
—Director, Technology Program

JANELLE COLLINS, 1997 B.A., San Diego State University M.A., San Diego State University Ph.D., Washington State University	Associate Professor of English	LAWRENCE RAYMOND DALE, 1986 B.S., California Polytechnic University M.A., Ohio University Ph.D., Ohio University	Professor of Economics —Coordinator, Economic Education Program
CRAIG COLLISON, 1998 B.A., Washington State University M.A., North Texas State University	Associate Professor of Music	TERRY DANCER, 1982 B.S.E., Henderson State University M.B.A., Henderson State University Ph.D., University of Mississippi	Professor of Accounting
SANDRA COMBS, 2008 B.S., University of Florida—Gainesville M.A., Michigan State University	Assistant Professor of Journalism	ROBIN L. DAUER, 1987 B.A., Miami University M.M., Cincinnati College—Conservatory of Music D.M.A., Cincinnati College—Conservatory of Music	Associate Professor of Music
MATTHEW COMEAU, 1999 B.S.E., University of Kansas M.S.E., University of Kansas Ph.D., University of Kansas	Associate Professor of Physical Education	CLOYIS DAUGHHETEE, 2005 B.S., Texas A&M University M.A., Arkansas State University	Temporary Instructor in Sociology
LYNITA M. COOKSEY, 1993 B.S., Arkansas State University M.S., Arkansas State University Ph.D., Oklahoma State University	Associate Professor of Environmental Entomology —Associate Vice Chancellor for Academic Services —Interim Dean, University College	SARAH DAVIDSON, 2008 B.S., University of Arkansas for Medical Sciences B.S., Southwest Texas State University	Temporary Assistant Professor of Nursing—MSCC
KIMBERLY COOPER, 2007 B.S.N., McNeese State University	Assistant Professor of Nursing ASU—Beebe	SUSAN A. DAVIS, 2001 B.S.E., Arkansas State University M.S.E., Arkansas State University	Temporary Instructor in Teacher Education— Mountain Home
BRENDA COX, 2008 B.S.E., University of Central Arkansas—Conway M.S., University of Central Arkansas—Conway	Instructor in Food Manufacturing Technology	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
DAVID COX, 1992 B.S., University of Florida M.Ed., University of Florida Ph.D., University of Illinois	Professor of Education —Coordinator, Community College Teaching Program	JENNIFER DeCLERK, 2003 B.S., Arkansas State University	Instructor Coordinator— Diagnostic Medical Sonography Program
CAROL CRAMER, 2004 B.A., University of California—Berkeley Ph.D., University of California—Irvine	Professor of Biological Sciences and Plant Pathology —Executive Director of ASU-Arkansas Biosciences Institute	MAGDALENA DJORDJEVIC, 2008 M.A., Columbia University—New York M.Ph., Columbia University—New York Ph.D., Columbia University—New York	Assistant Professor of Physics
JERRY L. CRAWFORD, 1966 B.S., Arkansas State University M.A., University of Mississippi Ph.D., University of Arkansas—Fayetteville	Professor of Economics	MARKO DJORDJEVIC, 2008 M.A., Columbia University—New York M.Ph., Columbia University—New York Ph.D., Columbia University—New York	Assistant Professor of Physics
LINDA CREIBAUM, 2002 B.A., University of Tennessee at Martin M.S., University of Illinois at Urbana—Champaign	Acquisitions Librarian	ELENA DOMINGUEZ, 2006 B.A., University of Huelva, Spain M.A., University of Huelva, Spain	Temporary Instructor in Spanish
TIMOTHY CRIST, 1999 B.M., University of Georgia M.M., University of Georgia D.M.A., University of Georgia	Associate Professor of Music	MARY ANDERSON DONAGHY, 1992 B.A., Stanford University M.A., American University Ph.D., American University	Assistant Professor of Sociology
WENDY CRIST, 2001 B.F.A., University of Georgia M.L.I.S., University of South Carolina	Librarian	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
SAMUEL CRON, II, 2002 B.S., Arkansas State University M.S., Arkansas State University Ph.D., Arkansas State University	Temporary Instructor in Chemistry	LAURA S. DOWNING, 1995 B.A., Moorhead State University M.L.I.S., University of Wisconsin	Reference Librarian/Rotating Team Leader
LINDA CRUMPTON, 2007 B.S.N., Arkansas State University M.S.N., Arkansas State University	Assistant Professor of Nursing	BARBARA DOYLE, 1988 B.S.E., Arkansas State University M.S.E., Arkansas State University Ed.S., Arkansas State University	Instructor, First Year Studies

MICHAEL B. DOYLE, 1985 B.S., Arkansas State University M.S., Oklahoma State University	Instructor in Radio-Television	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 —Director of Electrical Engineering Program
MARK DRAGANJAC, 1985 B.S., Southeastern Oklahoma State University Ph.D., University of Iowa	Professor of Chemistry	SHERRY ESKRIDGE, 2006 B.A., Arkansas State University M.L.S., Texas Woman's University	Access Services Librarian
LISA DRAKE, 2001 B.S.N., Indiana University Northwest M.S.N., Arkansas State University	Assistant Professor of Nursing—ASU-Mountain Home	TRACY FARMER, 2002 B.S., Arkansas State University M.S., Arkansas State University	Systems Librarian
SHAWN DRAKE, 2002 B.S., Arkansas State University M.S., Arkansas State University Ph.D., University of Southern Mississippi	Assistant Professor of Physical Therapy	JAMES W. FARRIS, 1996 B.A., California State University—Fresno M.A., California State University—Fresno Ph.D., Ohio State University	Associate Professor of Physical Therapy —Director, Physical Therapy Program
CHERYL DUBOSE, 2007 B.S., Macon State College M.S., Midwestern State University	Temporary Assistant Professor of Radiologic Sciences	JERRY L. FARRIS, 1992 B.S., Arkansas State University M.S., Arkansas State University Ph.D., Virginia Polytechnic Institute	Professor of Environmental Sciences —Associate Dean, College of Sciences and Mathematics
HELEN DUCLOS, 1998 B.A., Arkansas State University M.A., Arkansas State University	Temporary Instructor in English	LILLIE M. FEARS, 1990 A.A., Phillips County Community College B.S., Arkansas State University M.S.M.C., Arkansas State University Ph.D., University of Missouri—Columbia	Associate Professor of Journalism
MARK DUNAVAN, 2008 B.S.N., University of Arkansas for Medical Sciences M.N.A., University of Alabama	Associate Coordinator, Nurse Anesthesia Program Assistant Professor of Nursing	GRANT FENNER, 2003 B.B.A., University of Memphis Ph.D., University of Memphis	Assistant Professor of Management
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	LORI FENNER, 1995 B.S., Arkansas State University M.S., Arkansas State University	Instructor in Agriculture
TIM DURHAM, CPT, 2000 B.S., Arkansas State University	Assistant Professor of Military Science	LISA FERRELL, 1989 B.S., Tennessee Technical University M.A., Tennessee Technical University	Instructor in Developmental Studies
CRYSTAL JANE EASTON, 2004 B.S., Ohio State University M.A., Northern Arizona University Ph.D., Northern Arizona University	Assistant Professor of Counseling	JOY FIALA, 2002 B.S., Dominican University M.M., DePaul University	Temporary Instructor in Music
NATHAN B. EDGAR, 1995 B.S., Arkansas State University M.S., University of Kansas Ph.D., University of Kansas	Assistant Professor of Mechanical Engineering —Director of Mechanical Engineering Program	THOMAS FIALA, 1998 B.S., University of Illinois at Urbana—Champaign M.M., Northwestern University—Evanston Ph.D., University of Illinois at Urbana—Champaign	Associate Professor of Teacher Education
BEVERLY EDWARDS, 2007 B.S.W., Jackson State University M.S.W., Ohio State University—Columbus Ph.D., Clark Atlanta University	Assistant Professor of Social Work	TONJA FILLIPPINO, 2003 B.B.A., Northeastern State University M.E., Northwestern State University Ed.D., University of Louisiana at Monroe	Assistant Professor of Mid-level Education - ASU - Beebe Degree Center
DENNY EDWARDS, 1997 B.S., Henderson State University M.S., Henderson State University	Director, ASU-EACC Degree Center	PAUL FINNICUM, 1988 B.S., Northern Illinois University M.S., Oklahoma State University Ed.D., Oklahoma State University	Associate Professor of Health Education
GARY EDWARDS, 2006 B.A., Abilene Christian University M.A., Abilene Christian University Ph.D., University of Memphis	Assistant Professor of History	KELLY FISH, 2001 B.B.A., University of Texas at Austin M.I.M., American Graduate School of International Management Ph.D., University of Mississippi	Associate Professor of Computer & Information Technology
ASHRAF ELSAYED, 2006 B.S., Cairo University, Egypt MS., University of Alabama Ph.D., University of Alabama	Assistant Professor of Civil Engineering		

DEANNA FLEMING, 2007 Temporary Instructor in Early Childhood—ASU Beebe
B.S.E., University of Central Arkansas—Conway
M.Ed., Harding University

MYRON FLUGSTAD, 1989 Technical Services Librarian
B.A., Wartburg College and Team Leader
M.A., University of Northern Iowa
M.L.S., University of Iowa

BRENT FOLAND, 2008 Assistant Professor of Theatre
B.S., Indiana University
M.F.A., University of Florida

GEORGE FOLDES, 1992 Professor of Education
B.S., Chadron State College —Director, Center for Excellence in Education
M.S., Chadron State College
Ed.S., University of Nebraska—Omaha
Ed.D., University of Nebraska—Lincoln

JAMES FOREMAN, 2004 Reference Librarian
B.A., University of North Texas
M.S., University of North Texas

CHARLOTTE FOSTER, 2007 Director, Education Renewal Zone
B.S.E., Arkansas State University
M.E., Regent University
S.C.C.T, Arkansas State University

MARK FOSTER, 2001 Assistant Professor of Finance
B.S., University of North Alabama
M.A., University of Alabama
Ph.D., Mississippi State University

GILBERT LEN FOWLER JR., 1978 Professor of Journalism
B.S., Arkansas State University —Associate Dean, Honors College
M.A., University of Mississippi
Ph.D., Southern Illinois University—Carbondale

ROBERT FRANKLIN, 1997 Assistant Professor of Radio-TV
B.S., Jackson State University —Manager of KASU
M.A., Jackson State University
Ph.D., Arkansas State University

RICHARD K. FREER, 1994 Professor of Social Work
B.A., Anderson University
M.S.W., Michigan State University
Ph.D., Case Western Reserve University

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

KAREN FULLEN, 2003 Temporary Instructor in Social Work
B.S., Arkansas State University
M.A., Arkansas State University
M.S.W., University of Arkansas at Little Rock

DIANA FULLER, 2007 Assistant Professor of Nursing —ASU Mountain Home
B.S.N., Arkansas State University
M.S.N., Arkansas State University

JOEL T. GAMBILL, 1973 Associate Professor of Journalism
B.S., Arkansas State University —Chair, Department of Journalism
M.A., University of Oklahoma
Ph.D., Southern Illinois University—Carbondale

MINGHUI GAO, 2008 Instructor in Secondary Education
B.A., Teachers College—Changchun, China
M.Ed., Northeastern Normal University—Changchun, China
M.Ed., Harvard Graduate School of Education

J. DEON GARRETT, 2003 Temporary Instructor in Computer Science
B.S., Arkansas State University
M.S., Arkansas State University

SAMMY R. GENNUSO, 1963 Assistant Professor of English
B.A., Louisiana State University
M.A., Louisiana State University

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

J. KENT GIBSON, 1992 Temporary Instructor in Mathematics
B.S.E., Arkansas State University
M.S., Arkansas State University

JUAN PABLO GIL-OSLE, 2008 Assistant Professor of Spanish
B.A., Universidad de Zaragoza—Spain
M.A., Ohio University
Ph.D., University of Chicago

BEVERLY BOALS GILBERT, 1978 Professor of Teacher Education
B.A., University of Mississippi
M.Ed., University of Mississippi
Ed.D., University of Mississippi

ERIK GILBERT, 1998 Professor of History
B.A., William & Mary College
M.A., University of Vermont
Ph.D., Boston University

JACQUELYN GILBERT, 1999 Assistant Professor of Physical Therapy
B.S., Tuskegee Institute
M.P.H., University of Oklahoma

DEBORAH GILBERT-PALMER, 2000 Associate Professor of Nursing
B.S.N., University of Tennessee—Memphis
M.S.N., University of Tennessee—Memphis
Ed.D, Arkansas State University

ALYSON GILL, 1999 Assistant Professor of Art History
B.A., Trinity University
M.A., University of California—Irvine
Ph.D., University of Memphis

DAVID F. GILMORE, 1992 Assistant Professor of Environmental Biology
B.S., University of Maine
M.A., Indiana University
Ph.D., University of Connecticut

DIANE GILMORE, 2002 Temporary Instructor in Biological Sciences
B.A., University of Maine—Orano
O.D., Indiana University School of Optometry

SHELLEY GIPSON, 2003 Assistant Professor of Art
B.F.A., Stephen F. Austin State University
M.F.A., Texas Christian University

DEBORAH GOODWIN, 2003 Temporary Assistant Professor of Teacher Education
B.S., Central Baptist College
M.A., Arkansas State University

SARAH GORE, 1984 B.S.E., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Mathematics	DAVINA GUSKOV, 2003 B.A., University College Cork—Ireland M.S., Arkansas State University	Temporary Instructor in Journalism
JULIA GRADY, 2007 B.S., Radford College M.S., Radford College Ph.D., Virginia Polytechnic Institute and State University	Assistant Professor of Educational Leadership	HANS HACKER, 2007 B.A., University of North Texas M.A., Ohio State University Ph.D., Ohio State University	Assistant Professor of Political Science
KRISTIE GRAHAM, 2004 B.S., Arkansas State University	Temporary Assistant Professor of Physical Therapy	CATHY PATTON HALL, 1991 B.S., Arkansas State University M.S., University of Cincinnati	Assistant Professor of Nursing —Co-Director, ASN Program
GEORGE GRANT, 2003 B.S., Morehouse College M.S.L.S., Atlanta University Ph.D., University of Pittsburgh	Dean, Library and Information Resources	JAMES MICHAEL HALL, 2002 B.A., University of Mississippi M.S., University of Mississippi Ph.D., University of Mississippi	Associate Professor of Mathematics
MARLA GRAVES, 1999 B.S., Arkansas State University M.S., Arkansas State University Ph.D., University of Mississippi	Associate Professor of Health	JOHN DAVID HALL, 1991 B.S., Arkansas State University M.R.C., Arkansas State University M.Ed., University of Cincinnati Ph.D., University of Cincinnati	Professor of Psychology and Counseling
POLLY GREEN, 1998 B.S.E., Arkansas State University M.S.E., Arkansas State University	Instructor in Developmental Studies	DOMINIQUE HALLETT, 2004 B.A., Arkansas State University M.L.I.S., Louisiana State University	Reference Librarian
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	EDWARD T. HAMMERAND, 1990 B.S., University of Missouri—Rolla M.S., University of Missouri—Rolla Ph.D., University of Missouri—Rolla	Associate Professor of Computer Science —Director, Environmental Sciences
BERT GREENWALT, 1985 B.S.A., Arkansas State University M.S., University of Arkansas—Fayetteville Ph.D., Mississippi State University	Professor of Agricultural Economics	ROBYN HANNIGAN, 2000 B.S., Trenton State College M.A., State University of New York at Buffalo M.S., University of Rochester Ph.D., University of Rochester	Professor of Chemistry and Physics —Director, Environmental Sciences Ph.D. Program
HEIDI GRIFFIN, 2004 B.S., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Mathematics	SUSAN N. HANRAHAN, 1995 B.S., University of Kansas M.P.A., University of Kansas Ph.D., Temple University	Professor of Physical Therapy —Dean, College of Nursing and Health Professions
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	GREGORY HANSEN, 2002 B.A., Pennsylvania State University M.A., Western Kentucky University Ph.D., Indiana University	Assistant Professor of English & Folklore
RICHARD S. GRIPPO, 1995 B.S., Fairleigh Dickinson University M.S., Fairleigh Dickinson University Ph.D., Pennsylvania State University	Associate Professor of Environmental Biology	SHIVAN HARAN, 2002 B.E., Osmania University—India M.S., University of Houston Ph.D., University of Houston	Assistant Professor of Mechanical Engineering
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	DAVID R. HARDING, JR., 1992 B.A., University of Missouri—Columbia Ph.D., The Ohio State University—Columbus	Associate Professor of Political Science and Public Administration
GAURI-SHANKAR GUHA, 2001 M.S., Birla Institute of Technology & Science M.B.A., Indian Institute of Foreign Trade Ph.D., Pennsylvania State University	Assistant Professor of Economics	LORA HARDING, 2006 B.S., Arkansas State University M.S., Arkansas State University	Instructor in Biological Science
MICHAEL GUENTHER, 2006 B.S., California State University—Fresno M.S., California State University—Fresno Ph.D., Purdue University	Temporary Assistant Professor of Physics	CHRIS HARPER, SR., 2002 B.A., Arkansas State University M.A., Arkansas State University	Instructor in Communication Studies —Director of Debate Team

JEANE HARRIS, 1986 B.A., Colorado State University M.Ed., Colorado State University Ph.D., Texas Christian University	Professor of English	CINDY HINSON, 2004 B.S.Ed., Arkansas State University M.S.Ed., Arkansas State University	Instructor/Coordinator of Teaching Internship & Field Experiences
CHARLES W. HARTWIG, 1973 B.A., Southern Illinois University—Carbondale M.A., University of Kentucky Ph.D., University of Kentucky	Professor of Political Science	GINA HOGUE, 1990 B.S.E., Arkansas State University M.S.E., Arkansas State University Ph.D., University of Memphis	Associate Professor of History
MAJ DAVID HASTINGS, 2007 B.S., Arkansas State University	Assistant Professor of Military Science	MITCHELL HOLIFIELD, 1990 B.S.E., Arkansas State University M.A., Arkansas State University Ed.S., Southeast Missouri State University Ph.D., Southern Illinois University	Professor of Education —Chair, Department of Educational Leadership, Curriculum, and Special Education
KENDAL L. HATCH, 1983 B.M., North Texas State University M.M., Baylor University	Assistant Professor of Music	DAVID HOLMAN, 1992 B.A., North Dakota State University M.S., North Dakota State University Ed.S., North Dakota State University Ph.D., University of Nebraska—Lincoln	Associate Professor of Education
RUTH HAWKINS, 1999 B.A., University of Missouri—Columbia M.A., Arkansas State University Ph.D., University of Mississippi—Oxford	Distinguished Professor —Director, Arkansas Heritage SITES	ELIZABETH HOOD, 2004 B.A., University of Oklahoma—Norman M.S., Oklahoma State University—Stillwater Ph.D., Washington University—St. Louis	Professor of Plant Biology
SANDRA HAWKINS, 2008 B.S.E., Arkansas State University M.S.E., Arkansas State University	Temporary Instructor in Early Childhood	GEORGE F. HORNEKER, 1966 B.A., Park College M.A., University of Missouri Ph.D., University of Mississippi	Assistant Professor of English
MARCELINE 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	JO ANN HORNEKER, 1995 B.A., Arkansas State University M.A., Arkansas State University	Temporary Instructor in English
SHEILA HELLMAN, 2003 B.E.S., University of Missouri—Columbia M.Ed., University of Missouri—Columbia D.O., University of Health Sciences—Kansas City	Temporary Instructor in Physical Education	STEPHEN HORNER, 2004 B.A., Emporia State University M.B.A., Emporia State University Ph.D., University of Missouri—Columbia	Assistant Professor of Management
MAJ JEFFREY A. HELMS, 2006 M.S., Long Island University	Professor of Military Science —Chair, Independent Department of Military Science	RON HORTON, 2006 B.M., University of North Texas M.A., University of Pittsburgh Ph.D., University of Pittsburgh	Assistant Professor of Music —Director of Jazz Studies
CYNDY HENDERSHOT, 1997 B.A., Eastern New Mexico University M.A., Texas Tech University Ph.D., Texas Tech University	Associate Professor of English	DANIEL HOWARD, 2008 B.S., Manhattan College M.S., Indiana University M.P.H., Indiana University H.S.D., Indiana University Ph.D., Indiana University	Vice Chancellor for Academic Affairs and Research Professor of Educational Leadership in the Department of Educational Leadership, Curriculum and Special Education
JOAN HENLEY, 2003 B.S.E.E., Southwest Missouri State University M.S.E., Southwest Missouri State University Ph.D., University of Missouri—Columbia	Assistant Professor of Special Education	D. LYNN HOWERTON, 1974 B.A., Southern Illinois University—Carbondale M.A., Southern Illinois University—Carbondale Ph.D., Southern Illinois University—Carbondale	Professor of Psychology
LESLIE KIM HESTER, 1997 B.S., Jacksonville State University M.B.A., Jacksonville State University M.H.R.M., University of Alabama Ph.D., University of Alabama	Professor of Management	PAMELA C. HRONEK, 1983 B.A., Brigham Young University M.Ed., University of Utah Ph.D., Arizona State University	Associate Professor of History —Chair, Department of History
GRETCHEN HILL, 1999 B.A., Washburn University—Topeka M.A., University of Missouri—Kansas City Ph.D., University of Kansas—Lawrence	Associate Professor of Sociology —Co-Chair, Department of Criminology, Sociology and Geography	AIQUN HU, 2007 B.A., Wuhan University M.A., Wuhan University M.A., University of York Ph.D., Northeastern University	Assistant Professor of History
MYLEEA HILL, 2003 B.S., Harding University M.S., Arkansas State University Ed.D., Arkansas State University	Assistant Professor of Journalism		
VALARIE HILSON, 2005 B.S.E., Arkansas State University	Instructor in Physical Education		

XIUZHEM HUANG, 2004 B.S., Shandong University—China M.S., Shandong University—China Ph.D., Texas A&M University	Assistant Professor of Computer Science	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
EVELYN M. HUBBARD, 1992 B.S., Arkansas State University M.S.E., Arkansas State University	Assistant Professor of Radiologic Sciences	JEFFREY WAYNE JENNESS, 1991 B.S., Missouri Southern State College M.S., University of Missouri—Rolla Ph.D., University of Missouri	Associate Professor of Computer Science —Chair, Department of Computer Science
HOLLIE HUCKABEE, 2004 B.S., Ed., Arkansas State University M.S., Ed., Arkansas State University	Instructor in Physical Education	HAI JIANG, 2004 B.S., Beijing University M.A., Wayne State University Ph.D., Wayne State University	Assistant Professor of Computer Science
GAIL I. HUDSON, 1985 B.A., University of Michigan M.B.A., Arkansas State University Ph.D., University of Alabama	Professor of Marketing —Chair, Department of Management and Marketing	MARK JOBE, 2007 B.A., University of Mississippi M.A., University of Mississippi	Instructor in Accounting
MARKEN HUETER, CPT., 2004 B.S., Arkansas State University	Assistant Professor of Military Science	J. BRUCE JOHNSON, 1994 B.S., Brigham Young University M.S., University of Illinois—Urbana-Champaign Ph.D., University of Illinois—Urbana-Champaign	Associate Professor of Physics —Interim Chair, Department of Chemistry & Physics
JULIE HUGGINS, 2000 B.S., Arkansas State University M.S., Arkansas State University S.C.C.T., Arkansas State University	Instructor in Biological Sciences	MICHELE JOHNSON, 2007 B.S.E., Arkansas State University M.S.E., Arkansas State University	Temporary Instructor in Secondary Education MLED/ECH
KEVIN HUMPHREY, 1993 B.S., Western Kentucky University M.A.Ed., Western Kentucky University Ph.D., University of Missouri—Columbia	Assistant Professor of Agricultural Education	ROBERT D. JOHNSON, 1975 B.S., Widener College M.S., University of Georgia Ph.D., University of Georgia	Professor of Psychology
WILLIAM D. HUMPHREY, 1988 B.S., New Mexico State University M.S., New Mexico State University Ph.D., University of Wyoming	Professor of Animal Science	RONALD L. JOHNSON, 1992 B.S., California State University M.A., University of Northern Colorado D.A., University of Northern Colorado	Professor of Zoology —Assistant Chair, Department of Biological Sciences
SHANE HUNT, 2007 B.B.A., University of Oklahoma—Norman M.B.A., University of Oklahoma—Norman	Instructor in Marketing	WARREN JOHNSON, 1998 B.A., University of Iowa A.M., University of Michigan Ph.D., University of Michigan	Associate Professor of Languages
FRANCES ELIZABETH HUNTER, 1967 B.S.E., Arkansas State University M.S.E., Arkansas State University Ph.D., University of Mississippi	Associate Professor of English	NATALIE JOHNSON-LESLIE, 2004 B.A., University of Technology—Jamaica M.S., Iowa State University Ph.D., Iowa State University	Assistant Professor of Secondary Education
MARTIN J. HUSS, 1993 B.A., Benedictine College M.A., University of Kansas Ph.D., University of Kansas	Associate Professor of Botany	CRAIG H. JONES, 1977 B.A., Rutgers University M.A., University of Kansas Ed.D., University of Mississippi	Professor of Psychology and Counseling
DEBRA INGRAM, 2000 B.S., University of Minnesota M.S., Arkansas State University Ph.D., University of Memphis	Associate Professor of Mathematics —Chair, Department of Mathematics and Statistics	JO JONES, 2005 B.A., Harding University B.S., University of Arkansas School of Health Related Professions M.Ed., University of New Mexico	Temporary Instructor in Teacher Education - ASU Beebe
JULIE JUER ISAACSON, 1987 B.S.N., University of Tennessee M.S.N., Vanderbilt University	Associate Professor of Nursing	K. RUSSELL JONES, 1989 B.A., Arkansas State University M.S.I.S., Arkansas State University Ph.D., University of Texas—Arlington	Professor of Computer & Information Technology
GEORGE JACINTO, 2007 B.S., California State University M.E., Albertson College of Idaho M.S.W., Florida State University Ph.D., Barry University	Associate Professor of Social Work	CHERRISSE JONES-BRANCH, 2003 B.A., College of Charleston M.A., College of Charleston Ph.D., Ohio State University	Assistant Professor of History

RICHARD E. JORGENSEN, 1975 B.S.M.E., University of Illinois—Urbana M.M., Wichita State University	Professor of Music	BARBARA KNUCKLES, 1988 B.S.E., Arkansas State University M.A., Arkansas State University	Instructor in Developmental Studies
JAMES JUPP, 2008 B.A., University of Texas—Austin M.A.I.S., University of Texas—Brownsville Ph.D., University of Texas—Austin	Assistant Professor of Secondary Education	HIROMI KUBO, 2004 B.A., Okayama University—Japan M.A., University of Missouri—Columbia	Reference Librarian
AMY KALLAM, 2001 B.A., Hendrix College M.S., University of Central Arkansas Ph.D., University of Georgia	Assistant Professor of Psychology and Counseling	VEENA KULKARNI, 2008 B.A., University of Delhi—India M.A., University of Delhi—India	Assistant Professor of Sociology
BECKY KEITH, 2001 B.S., University of Central Arkansas	Assistant Professor of Physical Therapy	MAUNG KYAW, 2003 B.Sc., University of Rangoon Ph.D., London University	Temporary Instructor in Chemistry
DONALD W. KENNEDY, 1993 B.S., Sam Houston State University M.Ed., Sam Houston State University Ph.D., Louisiana State University	Professor of Animal Science	MARIKA KYRIAKOS, 2008 B.M., University of Missouri—Kansas City M.M., University of Missouri—Columbia D.M.A., University of Texas—Austin	Associate Professor of Music
JAMES KENNON, 2001 B.S., Arkansas State University B.S.E., Arkansas State University M.S.E., Arkansas State University Ed.D., University of Memphis	Assistant Professor of Science Education	MARY JANE LACK, 1998 B.S.E., Arkansas State University M.S.P., Arkansas State University	Assistant Professor of Communication Disorders
LISA KENYON, 2007 B.S., University of Vermont M.H.S., University of Indianapolis	Assistant Professor of Physical Therapy	JULIE LAMB-MILLIGAN, 2000 B.S., Arkansas State University M.S.E., Arkansas State University Ph.D., Kent State University	Associate Professor of Gifted, Talented and Creative Education
DAVID KERN, 2001 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	Assistant Professor of Finance	ROBERT LAWRENCE LAMM, 1991 B.A., University of Oklahoma M.A., University of Oklahoma Ph.D., University of Oklahoma	Associate Professor of English
RANDALL G. KESSELRING, 1984 B.B.A., University of Oklahoma M.A., University of Oklahoma Ph.D., University of Oklahoma	Professor of Economics	GARY A. LATANICH, 1981 B.B.A., Ohio University M.A., University of Nebraska—Lincoln Ph.D., University of Nebraska—Lincoln	Professor of Economics
JOSEPH KEY, 2002 B.A., Lyon College M.A., Louisville Presbyterian Theological Seminary M.A., West Texas A & M Ph.D., University of Arkansas—Fayetteville	Assistant Professor of History	LINDA LATTING, 2008 B.S.N., Arkansas State University M.S.N., Arkansas State University	Temporary Assistant Professor of Nursing —Mt. Home
DIXIE KEYES, 2006 B.S.E., University of Central Arkansas M.Ed., University of Texas, Pan-American Ph.D., University of Houston	Assistant Professor of Middle-Level Education	DAVID LaVETTER, 2004 B.S., University of Utah M.Ed., University of Nevada Ph.D., University of New Mexico	Assistant Professor of Physical Education/ Sports Management
SHUBHALAXMI KHER, 2008 B. Engr., Devi Ahilya University—India M. Engr., Devi Ahilya University—India Ph.D., Devi Ahilya University—India	Assistant Professor of Electrical Engineering	PAIGE HIGGINS LAWSON, 2004 B.S., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Physical Education
IRINA KHRAMTSOVA, 2002 B.A., Moscow State University Ed.D., Kansas State University	Assistant Professor of Psychology	F. DAVID LEVENBACH, 1982 A.B., Franklin and Marshall College M.A., The Johns Hopkins University Ph.D., The Johns Hopkins University	Assistant Professor of Political Science
HYUN-DUCK KIM, 2005 Bachelors Degree, Kyung Hee University, Suwon, South Korea Masters Degree, University of New Mexico Ph.D., University of New Mexico	Assistant Professor of Physical Education	MARK LEWIS, 2003 B.S., Arkansas State University J.D., University of Arkansas at Little Rock	Temporary Instructor in Business Law
		BAO-AN LI, 1998 B.S., University of Lanzhou—PR China Ph.D., Michigan State University	Professor of Physics

SARAH JANE LINDSEY, 2004 B.A., Massey University—New Zealand M.A., University of Wales Ed.D., University of Louisiana—Monroe	Temporary Assistant Professor of Teacher Education - Beebe	FRANCES M. MALPEZZI, 1975 B.S., California State College Ph.D., University of Nebraska	Professor of English
CHUNZHAO LIU, 2007 B.S., Shandong University—China M.S., Shandong University—China Ph.D., Institute of Process Engineering—China	Research Assistant Professor —ASU Arkansas Biosciences Institute	DONALD MANESS, 2001 B.S., Owosso College M.A., Michigan State University Ed.D., Oklahoma State University	Assistant Professor of Education —Associate Dean, College of Education
PAMELA LITTLE, 2006 B.S.E., Arkansas State University M.S.E., Arkansas State University	Temporary Instructor in Teacher Education	DENISE MANNING, 1986 B.S., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Mathematics
JON LOFTON, 2005 B.A., University of Illinois M.P.A., University of Illinois Ed.D., University of Arkansas Ph.D., University of Arkansas	Assistant Professor of Political Science	DANIEL R. MARBURGER, 1989 B.S., Purdue University M.B.A., University of Cincinnati Ph.D., Arizona State University	Professor of Economics
ERNESTO B. LOMBEIDA, 1985 B.A., Universidad Central, Quito, Ecuador M.A., University of Texas—Austin Ph.D., University of Texas—Austin	Associate Professor of Spanish and French	J. W. MASON, 1979 B.S., University of Arkansas—Pine Bluff M.S.E., Arkansas State University Ed.S., Arkansas State University Ed.D., Ball State University	Assistant Professor of Education —Associate Vice President for Administration
ARGELIA LORENCE, 2005 B.S., UAM-I, Mexico M.S., UNAM, Mexico Ph.D., UNAM, Mexico	Research Assistant Professor of Metabolic Engineering	MITCH MATHIS, 2003 B.S., Arkansas State University M.S., Arkansas State University	Instructor in Physical Education
RICK LOTT, 1987 B.S., Livingston University M.A., Florida State University Ph.D., Florida State University	Professor of English	NEIL MATTHIESSEN, 2005 B.F.A., University of Montana - Missoula M.A., West Virginia University - Morgantown M.F.A., Minneapolis College of Art & Design	Assistant Professor of Graphic Design
JEANNETTE LOUTSCH, 2001 B.S., Briar Cliff College Ph.D., St. Louis University	Assistant Professor of Biology	REBECCA MATTHEWS, 2006 B.S.N., Biola University M.N.S., University of Arkansas for Medical Sciences D.N.P., University of Tennessee—Memphis	Assistant Professor of Nursing
SHERRI LOVELACE, 2001 B.S.E., Arkansas State University M.C.D., Arkansas State University Ph.D., University of Kentucky	Assistant Professor of Communication Disorders	WILLIAM B. MAYNARD, 1987 B.A., California State University—Long Beach M.A., University of Durham, England Ph.D., University of Durham, England	Associate Professor of History
KAY LUTER, 1999 B.S.E., Arkansas State University M.S.E., Arkansas State University M.Ed., University of Arkansas at Little Rock	Temporary Instructor in Special Education	JACKIE McBRIDE, 2002 B.S.E., Arkansas State University M.S.E., Arkansas State University Ed.D., Arkansas State University Ed.S., Arkansas State University	Professor of Education
PAULA LYNN, 2005 B.A., Purdue University M.A., Arkansas State University S.C.C.T., Arkansas State University	Instructor in First Year Studies	MARGARET McCLAIN, 1989 B.A., University of Guelph M.A., Tennessee Technological University	Instructor in Developmental Studies
CEDRIC MACKLIN, 2002 B.A., Arkansas State University M.A., Arkansas State University	Coordinator for MSCC Degree Center	PATRICIA McCOY, 2005 B.A., California State University M.A., California State University	Temporary Instructor in Teacher Education ASU - Mountain Home
MARCI MALINSKY, 2001 B.A., University of New Orleans M.A., College of St. Thomas Ph.D., University of New Orleans	Associate Professor of Teacher Education —ASU-Mountain Home Degree Center	MICHAEL McDANIEL, 1989 B.S.E., Arkansas State University M.A., Memphis State University Ph.D., Memphis State University	Professor of Communication Disorders —Director, Health Sciences Program
DAVID MALOCH, 2000 B.B.A., Texas Tech University	Director of Printing Services	MARY McDOUGAL, 2001 B.S.N., University of Arkansas Medical Sciences M.S.N., Arkansas State University	Temporary Assistant Professor of Nursing

- LORETTA MCGREGOR, 2005**
B.A., Quachita Baptist University
M.S., Emporia State University
Ph.D., Wichita State University
- MARK McJUNKIN, 1989**
B.S., Northeastern Oklahoma State University
M.Ed., Northeastern Oklahoma State University
Ph.D., Oklahoma State University
- TANYA MCKAY, 2004**
B.S., Arcadia University - Nova Scotia
M.S., University of Manitoba
Ph.D., Kansas State University
- CAROLYN SUE McLARRY, 1993**
B.S.N., California State University
M.S., University of Oklahoma
Ph.D., University of Arkansas for Medical Sciences
- JEFF McLAUGHLIN, 2004**
B.A., Baker University
M.F.A., University of Missouri—Kansas City
- WILLIAM McLEAN, 2002**
B.A., Arkansas State University
M.A., Arkansas State University
Ph.D., University of New Orleans
- ARTHUR McLIN, 2002**
B.A., University of New Orleans
M.A., University of New Orleans
S.C.C.T., Arkansas State University
Ed.S., Arkansas State University
Ed.D., Arkansas State University
- ZELDA McMURTRY, 2002**
B.A., Harding University
M.Ed., Harding University
- ALAN McVEY, 2006**
B.A., University of Arkansas—Little Rock
- FABRICO MEDINA-BOLIVAR, 2005**
B.S., Universidad Peruana Cayetano Heredia, Lima, Peru
Licentiate, Cayetano Heredia University and International Potato Center, Lima
Ph.D., Pennsylvania State University
- GREGORY MEEKS, 2003**
B.S.E., Quachita Baptist University
M.S.E., Henderson State University
Ph.D., University of North Texas
- SUZANNE COLLIER MELESCUE, 1997**
B.S., University of Tennessee—Chattanooga
M.S., University of Tennessee—Knoxville
Ph.D., University of Tennessee—Knoxville
- JOHN MELLO, 2006**
B.A., Central Connecticut State University
M.P.A., University of New Haven
M.S.M., Wilmington College
- DON MERRELL, 2001**
B.A., Arkansas State University
M.A., University of Mississippi
Ph.D., University of Arkansas
- JIE MIAO, 1998**
B.S., Hangzhou University-PR China
M.S., Hangzhou University-PR China
Ph.D., Michigan State University
- CYNTHIA MILLER, 2005**
B.S., University of Tennessee - Chattanooga
M.Ed., West Georgia College
Ed.S., Georgia State University
Ph.D., Georgia State University
- ELISSA MILLER, 1994**
B.A., Harding University
M.N.Sc., University of Arkansas for Medical Sciences
M.A., Memphis State University
Ph.D., Memphis State University
- FIONA MILLER, 2006**
B.J., Carleton University
B.A., Carleton University
M.A., Carleton University
Ph.D., University of Toronto
- RENEE MILLER, 2001**
B.S.N., Arkansas State University
M.S.N., Arkansas State University
- ROBERT DALE MILLER, 1997**
B.M.E., East Texas State University
M.M.E., East Texas State University
Ph.D., Texas Tech University—Lubbock
- CLYDE A. MILNER II, 2002**
A.B., University of North Carolina—Chapel Hill
M.A., Yale University
M.Phil., Yale University
Ph.D., Yale University
- PRADEEP MISHRA, 2001**
B.S., Kanpur University—India
B.S., Arkansas State University
M.P.A., Arkansas State University
- SUZANNE MITCHELL, 1991**
B.S., Arkansas State University
M.Ed., University of Arkansas—Fayetteville
Ed.Spec., University of Missouri—Kansas City
Ph.D., University of Missouri—Kansas City
- PAUL D. MIXON, 1996**
B.S., Memphis State University
M.S., Memphis State University
Ph.D., Memphis State University
- FARHAD MOEENI, 1991**
B.S. Tehran School of Business Administration, Iran
B.S., Arizona State University
M.S., University of Arizona
Ph.D., University of Arizona
- AMY MOODY-QUALLS, 2007**
B.A., Arkansas State University
M.A., Arkansas State University
- Associate Professor of Psychology
—Chair, Department of Psychology and Counseling
—Director, Ronald McNair Post-Baccalaureate Achievement Program
- Assistant Professor of Teacher Education
- Assistant Professor of Entomology
- Associate Professor of Nursing
—Chair, School of Nursing
- Assistant Professor of Theatre
- Assistant Professor of Public Administration
- Assistant Professor of Teacher Education
- Instructor in Early Childhood
—ASU - Beebe Degree Center
- Executive Director, Delta Center for Economic Development
- Assistant Professor of Plant Metabolic Engineering,
ABI/Department of Biological Sciences
Licentiate, Cayetano Heredia University and International Potato Center, Lima
- Associate Professor of Teacher Education
—Assistant Chair, Department of Teacher Education
- Associate Professor of Mathematics
- Assistant Professor of Marketing
- Temporary Assistant Professor of Philosophy
- Associate Professor of Mathematics
- Director, NEA Delta Math/Science Institute
- Assistant Professor of Nursing
(CVN at ASU-Beebe)
- Assistant Professor of Political Science
- Assistant Professor of Nursing
- Professor of Music
- Professor of History
—Director, Heritage Studies Ph.D. Program
- Instructor in Printing
- Temporary Associate Professor of Mathematics
—Executive Director, Math and Science Initiatives
—Project Director, No Child Left Behind
- Associate Professor of Electrical Engineering
- Professor of Computer & Information Technology
- Coordinator for Off-Campus Courses

ANDY MOONEYHAN, 1999 B.S.E., Arkansas State University M.S., Arkansas State University Ph.D., University of Arkansas—Fayetteville	Assistant Professor of Physical Education	SARATH NONIS, 1991 B.A., University of North Texas M.B.A., University of North Texas Ph.D., University of North Texas	Professor of Marketing
BRYAN MOORE, 1997 B.A., University of Arkansas at Little Rock M.A., University of Arkansas at Little Rock Ph.D., Texas Christian University	Associate Professor of English	JOHN HARLAN NORRIS, 2008 B.A., Centre College M.F.A., Louisiana State University	Assistant Professor of Art
LOUELLA MOORE, 1991 B.S., Arkansas State University M.B.A., Arkansas State University Ph.D., University of Arkansas—Fayetteville	Professor of Accounting	LISA OCHS, 1999 B.A., Saint Mary of the Plains College M.A., Fort Hays State University M.S., Emporia State University J.D., Washburn University School of Law Ph.D., University of Arkansas	Associate Professor of Counseling
JULIET MORROW, 1997 B.A., Washington University—St. Louis M.A., Washington University—St. Louis Ph.D., Washington University—St. Louis	Assistant Professor of Archaeology (U of A/Arkansas Archaeological Survey)	CAROL A. O'CONNOR, 2002 B.A., Manhattanville College M.Ph., Yale University Ph.D., Yale University	Professor of History —Associate Dean, College of Humanities and Social Sciences
LISA MOSKAL, 2001 B.A., University of Memphis M.A., University of Memphis	Instructor in Journalism	THOMAS M. O'CONNOR, JR., 1978 B.M.E., Arkansas State University M.S.E., Arkansas State University D.M.A., Memphis State University	Professor of Music —Chair, Department of Music
ASHLEY MOTT, 2006 B.A., Arkansas State University M.A., Arkansas State University M.P.T., Arkansas State University	Assistant Professor of Physical Therapy	REBECCA OLIVER, 2007 B.S., Truman State University M.A., Truman State University	Interim Director of Student Services — The Honors College
PATRICIA MURPHY, 2006 B.S., Mississippi State University M.E., Middle Tennessee State University Ed.D., Tennessee State University	Assistant Professor of Children's Literature	TIMOTHY OLIVER, 2007 B.A.M., Truman State University M.A.M., Truman State University M.A.E., Truman State University Ph.D., Florida State University	Associate Professor of Music —Director of Bands —Coordinator of Wind and Percussion Studies
WAYNE NAREY, 1990 B.A., David Lipscomb College M.A., New School for Social Research Ph.D., City University of New York	Associate Professor of English	ALLYN ONTKO, 2008 B.S., University of Minnesota M.S., University of Wyoming Ph.D., Iowa State University	Associate Professor of Chemistry
GWENDOLYN NEAL, 2008 B.S.E., Arkansas State University M.S.E., Arkansas State University Ed.Spec., Union University Ed.D., Union University	Instructor in Special Education	JOHN OWEN, 2000 B.A., Arkansas Tech University M.M., University of Illinois at Urbana/Champaign D.M.A., University of Illinois at Urbana/Champaign	Assistant Professor of Music
RICHARD A. NEELEY, 1987 B.S.E., Arkansas State University M.S.P., Arkansas State University Ph.D., University of Tennessee	Professor of Communication Disorders —Director, Communication Disorders Program	DEBORAH OWENS, 2007 B.S., Mississippi State University M.S., Mississippi State University	Instructor in Reading
CINDY NICHOLS, 2005 B.S., Southeast Missouri State University M.A., Southeast Missouri State University Ed.S., Southeast Missouri State University	Instructor in Special Education	LINA OWENS, 1999 B.A., Harding University M.Ed., University of Mississippi Ph.D., University of Mississippi	Associate Professor of Teacher Education
JOSEPH NICHOLS, 2001 B.S.E., University of Mississippi M.A.E., Southeast Missouri State University Ed.S., Southeast Missouri State University Ed.D., St. Louis University	Associate Professor of Educational Leadership	RUTH OWENS, 1997 B.A., Longwood College M.A., West Virginia University Ed.D., West Virginia University	Associate Professor of Spanish —Acting Associate Dean, College of Humanities and Social Sciences
ELIZABETH NIX, 2004 B.S.N., Arkansas State University M.S.N., Arkansas State University	Assistant Professor of Nursing	SANGSHIN PAE, 2008 B.A., Kyung-Hee University—Korea M.B.A., Purdue University	Assistant Professor of Accounting
		ARIANNE PAIT, 2002 B.S., Arkansas State University M.A., University of North Carolina at Greensboro	Assistant Professor of Communication Disorders

MICHAEL PANIGOT, 1997 B.S., University of Nebraska at Omaha M.S., Indiana University Ph.D., Case Western Reserve University	Associate Professor of Chemistry	DAVID PHILLIPS, 2005 B.S., New York State University M.A., Arkansas State University	Temporary Instructor in Sociology
DONNA PARKER, 2007 B.A., Arkansas State University M.S.W., University of Tennessee—Memphis	Temporary Instructor in Social Work/Field Coordinator	GREG PHILLIPS, 2002 B.A., University of Kentucky Ph.D., University of Kentucky	Professor of Agriculture —Dean, College of Agriculture, College of Engineering, and College of Sciences and Mathematics —Director, Agricultural Research Program
THOMAS J. PARSONS, 1984 B.E., Youngstown State University M.S., Youngstown State University Ph.D., West Virginia University	Professor of Civil Engineering —Director of Civil Engineering Program	LATOYA PIERCE, 2005 B.A., Loyola University - New Orleans M.S., Loyola University - New Orleans Ph.D., University of New Orleans	Assistant Professor of Psychology and Counseling
MARIE PATTON, 1998 B.S.E., Arkansas State University M.A., Arkansas State University	Temporary Instructor in English	TISHA PIERCE-FRENCH, 2001 B.S.E., Arkansas State University M.C.D., Arkansas State University	Temporary Assistant Professor of Communication Disorders
WILLIAM H. PAULSEN, 1990 B.A., Washington University M.A., Washington University Ph.D., Washington University	Professor of Mathematics	COLLIN PILLOW, 1998 B.S., Arkansas State University M.S.M.C., Arkansas State University	Instructor in Radio-Television
ROBIN L. PAYNE, 1986 B.A., Brigham Young University M.S.L., Brigham Young University	Bibliographic Instruction Librarian	KIM PITTCOCK, 1998 B.S., Texas Tech University M.S., University of Tennessee Ph.D., Texas Tech University	Associate Professor of Horticulture —Associate Dean, College of Agriculture —Director, Agricultural Studies Program
WILLIAM C. PAYNE, 1988 B.S., Ohio University B.S., Loma Linda University M.S., Loma Linda University	Assistant Professor of Clinical Lab Sciences	JEFFREY R. PITTMAN, 1983 B.S., Northern Illinois University J.D., University of Iowa M.B.A., University of Iowa	Professor of Business Law
AMY PEARCE, 2001 B.S., Arkansas State University Ph.D., Australian National University	Assistant Professor of Psychology	PHYLLIS E. POBST, 1991 B.A., Gonzaga University M.T.S., Harvard Divinity School M.A., Centre for Mediaeval Studies, University of Toronto M.S.L., Pontifical Institute of Mediaeval Studies, University of St. Michael's College Ph.D., Centre for Mediaeval Studies, University of Toronto	Associate Professor of History
PATRICK PECK, 2001 B.A., Eastern Illinois University M.C.C.C., Idaho State University Ed.D., Idaho State University	Associate Professor of Counseling	DWAYNE POWELL, 2007 B.S., Arkansas State University M.B.A., Arkansas State University	Temporary Instructor in Accounting
GAYLE PENDERGRASS, 1995 B.S.E., Arkansas State University M.A., Arkansas State University M.F.A., Memphis State University	Professor of Art Education	JOHN PRATTE, 2006 B.S., University of Texas—Austin Ph.D., University of Colorado—Boulder	Professor of Physics —Chair, Department of Chemistry and Physics
DENNIS PERKEY, 2003 B.S., Arkansas State University M.S., Southern Illinois University at Carbondale	Temporary Instructor in Physical Education/ Athletic Training	DIANNE PRINCE, 1989 B.S.E., Arkansas State University M.S.E., Arkansas State University Ed.D., George Peabody College for Teachers of Vanderbilt University	Professor of Early Childhood Education —Interim Chair, Department of Teacher Education
LAURA PERKINS, 2008 B.F.A., Arkansas State University M.A., Arkansas State University	Temporary Instructor in Theatre	TINA QUINN, 1997 B.S., Arkansas State University M.B.A., Arkansas State University Ph.D., University of Mississippi	Associate Professor of Accounting —Chair, Department of Accounting and Law
DEBORAH PERSELL, 2001 B.S.N., University of Kansas—Kansas City M.S.N., University of Missouri—Kansas City	Associate Professor of Nursing	GUILTELE RAHILL, 2008 B.A., Nyack College M.S.W., Florida International University	Assistant Professor of Social Work
JUDITH PFRIEMER, 1992 B.S., Alfred University M.S.N., Arkansas State University	Assistant Professor of Nursing	PHYLLIS RAMBIN, 2005 B.A., Lyon College M.Ed., Delta State University Ph.D., University of Georgia	Assistant Professor of Art Education
MELODIE PHILHOURS, 1985 B.S., Arkansas State University M.B.A., Arkansas State University Ed.D., Arkansas State University	Assistant Professor of Marketing		

BRENDA RANDLE, 2006 B.A., Mississippi Valley State University M.A., Arkansas State University S.C.C.T., Arkansas State University	Instructor in Communication Studies	ANA ROMERO, 2003 Licenciado en Biología, Universidad de Barcelona-Spain	Temporary Instructor in Spanish
CATHERINE REESE, 1997 B.A., Rhodes College M.P.A., University of Memphis D.P.A., University of Georgia	Associate Professor of Public Administration	CAROL ANN ROSS, 1997 B.S.E., Arkansas State University M.C.S., University of Mississippi Ed.D., University of Memphis	Associate Professor of Teacher Education
SCOTT W. REEVE, 1994 B.A., Augsburg College Ph.D., University of Minnesota	Associate Professor of Chemistry	DANIEL F. ROSS, 1972 B.M.E., Arkansas State University M.S.E., Arkansas State University D.A.Mus., University of Mississippi	Professor of Music
DANIEL REEVES, 1999 B.A., West Liberty State College Ed.M., University of Pittsburgh Ed.D., Illinois State University	Professor of Art —Dean, College of Fine Arts	DENNIS CHARLES ROUSEY, 1978 B.A., University of Mississippi M.A., Cornell University Ph.D., Cornell University	Professor of History
CLINT RELYEA, 1999 B.S., Arkansas State University M.B.A., Arkansas State University Ed.D., Arkansas State University	Assistant Professor of Management —Coordinator, International Business Degree	WILLIAM H. ROWE, 1977 B.A., Millersville State College M.F.A., University of Nebraska	Professor of Art
THOMAS RISCH, 2001 B.S., Stockton State College M.S., Frostburg State University Ph.D., Auburn University	Associate Professor of Environmental Biology	PAULA RUBY, 2001 B.S.E., Arkansas State University M.S.E., Arkansas State University Ed.D., University of Tennessee—Knoxville	Associate Professor of Computer & Information Technology
TERRY ROACH, 1990 B.S.E., Arkansas State University M.S.E., Arkansas State University Ph.D., University of Mississippi	Associate Professor of Business Systems	RALPH RUBY, JR., 1979 B.S., University of Tennessee M.S., University of Tennessee Ed.D., University of Missouri	Professor of Computer & Information Technology
LARZ ROBERTS, 2004 B.S., Florida A&M University M.A., University of Mississippi M.A., University of Iowa	Instructor in Radio-Television	DAVID A. SAARNIO, 1993 B.A., Florida Atlantic University M.A., Florida Atlantic University Ph.D., University of Michigan	Professor of Psychology
JOHN ROBERTSON, 2000 B.A., University of Tennessee—Knoxville M.B.A., Vanderbilt University Master of Laws, University of Alabama—Tuscaloosa J.D., Vanderbilt University	Associate Professor of Business Law	AMANY SALEH, 1997 B.Sc., Cairo University M.A., University of Alabama Ph.D., University of Alabama	Associate Professor of Education
PATRICIA ROBERTSON, 2005 B.A., Vanderbilt University D.J., Vanderbilt University	Assistant Professor of Business Law	LAWRENCE MARK SALINGER, 1990 B.A., University of California—Irvine M.A., Indiana University Ph.D., Washington State University—Pullman	Associate Professor of Sociology —Co-Chair, Department of Humanities and Social Sciences
C. WILLIAM ROE, 2000 B.S., Mississippi State University M.B.A., Mississippi State University D.B.A., Mississippi State University	Professor of Management —Director of COB Graduate Programs	JOHN J. SALVEST, 1989 A.B., Duke University M.A., University of Iowa M.F.A., University of Iowa	Professor of Art
SUSAN ROEHRIG, 2004 B.S., University of Kentucky M.S., University of Kentucky Ph.D., University of New Mexico	Associate Professor of Physical Therapy	JOSEPH SARTORELLI, 1985 B.A., University of Chicago B.Phil., Oxford University M.S., Wright State University Ph.D., Oxford University	Associate Professor of Philosophy
JEANNEAN ROLLINS, 1991 B.S., Northeast Louisiana University M.R.C., Arkansas State University	Associate Professor of Radiologic Sciences	LAQUITA SAUNDERS, 2001 B.G.S., Arkansas State University M.A., Arkansas State University J.D., University of Arkansas at Little Rock	Temporary Instructor in History
ALDEMARO ROMERO, 2003 Licensure, Universidad de Oriente-Venezuela Licenciado Biología, Universidad de Barcelona-Spain Ph.D., University of Miami	Professor of Biology —Chair, Department of Biological Sciences	BRETT SAVARY, 2006 B.S., Iowa State University M.S., University of Tennessee Ph.D., Pennsylvania State University	Research Associate Professor of Protein Chemistry

JOHN SAWYER, 2001 B.M.E., Arkansas State University M.M.E., Arkansas State University	Temporary Instructor in Educational Leadership and Teacher Education	AGNETA E. SIBRAVA, 1994 B.S.E., Arkansas State University M.S.E., Arkansas State University	Instructor in Physical Education
LISA SCHAFER, 2005 B.S.N., Memphis State University M.S.N., University of Tennessee	Assistant Professor of Nursing —Site Coordinator, MSCC-West Memphis	KRISTA SIFFORD, 2004 B.S.N., Arkansas State University M.S.N., Arkansas State University	Assistant Professor of Nursing
ROBERT L. SCHICHLER, 1989 B.A., State University College at Geneseo M.A., State University College at Geneseo Ph.D., State University Center at Binghamton	Professor of English	JOYCE SIMMONS, 2007 B.S.N., Harding University M.S.N., Harding University	Assistant Professor of Nursing —ASU Beebe
ANGELA SCHMIDT, 2006 B.S.N., Arkansas State University M.N.S., University of Arkansas Medical Sciences	Assistant Professor of Nursing	BOBBY W. SIMPSON, 1983 B.F.A., Arkansas State University M.F.A., University of Mississippi	Professor of Theatre —Chair, Department of Theatre
JEANINE WEEKES SCHROER, 2005 B.Ph., Miami University M.A., University of Illinois at Chicago Ph.D., University of Illinois at Chicago	Assistant Professor of Philosophy	MOLLY SIMPSON, 1991 B.F.A., Arkansas State University M.A., Arkansas State University M.F.A., University of Southern Mississippi	Professor of Theatre
ROBERT SCHROER, 2004 B.A., University of Minnesota at Duluth Ph.D., University of Illinois at Chicago	Assistant Professor of Philosophy	JOLLEAN SINCLAIRE, 2007 B.B.A., University of Memphis M.B.A., University of Memphis Ph.D., University of Memphis	Assistant Professor of Computer and Information Technology
SARAH SCOTT, 2008 B.A., University of North Carolina M.A., Arkansas State University	Instructor in Communication Studies	JACQUES SINGLETON, 2008 B.S., University of Southern Mississippi M.S.W., University of Southern Mississippi Ed.D., University of Memphis	Assistant Professor of Special Education
SANDRA B. SEAY, 1967 B.S.E., University of Missouri M.A., University of Missouri	Assistant Professor of Music	GANAPATHY SIVAKUMAR, 2007 B.S., Ayya Nadar Janaki Ammal College—India MS., Ayya Nadar Janaki Ammal College—India Ph.D., Bharathidasan University—India	Research Assistant Professor —ASU Arkansas Biosciences Institute
RICHARD SEGALL, 1998 B.S., Rensselaer Polytechnic Institute M.S./M.S., Rensselaer Polytechnic Institute Ph.D., University of Amherst	Associate Professor of Computer & Information Technology	PHYLLIS SKORGA, 1998 B.S.N., University of Tennessee M.S., University of Tennessee Ph.D., University of Kansas	Professor of Nursing —Director, Delta Health Education Partnership
JOHN SEYDEL, 1995 B.S., University of Colorado M.B.A., Boise State University Ph.D., Texas A&M University	Professor of Computer & Information Technology —Chair, Department of Computer and Information Technology	STACEY SLOAS, 2005 B.S.E., Arkansas State University B.S., Arkansas State University	Instructor in Physical Therapy
RUSSELL E. SHAIN, 1990 B.A., University of Kentucky M.S., University of Illinois Ph.D., University of Illinois	Professor of Journalism —Dean, College of Communications	BRENDA SMITH, 2003 B.S.N., University of Alabama M.N., Emory University Ed.D., University of Memphis	Temporary Associate Professor of Nursing
DEBBIE SHELTON, 2005 B.S.N., Arkansas State University M.S.N., Arkansas State University	Assistant Professor of Nursing	DARREN SMITH, 2001 B.A., Loyola University—New Orleans M.S., University of New Orleans Ph.D., Indiana University—Bloomington	Associate Professor of Reading
APRIL SHEPPARD, 2005 B.A., Arkansas State University B.F.A., Arkansas State University	Government Documents Librarian	GIDGET R. SMITH, 1994 B.S., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Mathematics —CSM Computer System Manager
PAUL S. SHERMAN, 1988 B.S., Oakland University M.S., Oakland University Ph.D., Oakland University	Associate Professor of Mechanical Engineering	SUSAN SMITH, 1994 B.S., University of Central Arkansas M.S.N., University of Central Arkansas	Assistant Professor of Nursing (CVN at ASU-Beebe)
CALVIN R. SHUMWAY, 1991 B.S., Northern Illinois University M.S., Southern Illinois University—Carbondale Ph.D., Texas A&M University	Associate Professor of Agronomy	VICTORIA SPANIOL, 1989 B.A., West Virginia University M.A., University of Southwestern Louisiana Ph.D., University of Southwestern Louisiana	Assistant Professor of English

JEANETTE SPENCER, 1997 B.S.E., Arkansas State University M.S.E., Arkansas State University	Temporary Instructor in Computer Science	ANDREW T. SUSTICH, 1991 B.S., University of Illinois—Urbana-Champaign M.S., University of Illinois—Urbana-Champaign Ph.D., University of Illinois—Urbana-Champaign	Professor of Physics —Dean, Graduate School —Dean, Honors College
MICHAEL P. SPIKES, 1987 B.A., Mississippi State University M.A., Indiana University Ph.D., Indiana University	Professor of English	AHMAD SYAMIL, 2000 B.S., Bandung Institute of Technology—Indonesia M.B.A., University of Houston Ph.D., University of Toledo	Associate Professor of Computer & Information Technology
MALATHI SRIVATSAN, 2003 B.S., Madras University—India M.S., Jawaharlal Institute—India Ph.D., Institute of Medical Sciences & Research-India	Assistant Professor of Molecular Biology	ALEXANDER SYDORENKO, 1972 B.S., University of Illinois—Chicago M.A., University of Illinois—Chicago Ph.D., University of Illinois—Urbana	Professor of History
ANNETTE S. STACY, 1982 B.S.N., Vanderbilt University M.S.N., University of Virginia	Associate Professor of Nursing —Director, B.S.N. Program	NICHOLAS TAGGART, 2008 B.S., Georgia State University M.A., Georgia State University	Instructor/Director, English as a Second Language
CURTIS E. STEELE, 1978 B.F.A., California College of Arts and Crafts M.A., California State University—Chico M.F.A., Memphis State University	Professor of Art —Chair, Department of Art	HENRY TALLEY, 2003 B.S., Ottawa University M.S., Mount Marty College M.S.N., University of Tennessee—Memphis Ph.D., University of Tennessee—Memphis	Assistant Professor and Nurse Anesthesia Associate Program Coordinator
MELISSA STEPHENS, 2007 B.S.E., Arkansas State University M.A., University of Memphis	Temporary Instructor in Spanish	RICHARD W. TAYLOR, 1984 B.S., Arkansas State University M.B.A., University of Arkansas—Fayetteville Ph.D., Louisiana Tech University	Professor of Finance
TERRY STEPKA, 2001 B.S.E., Arkansas State University M.S.E., Arkansas State University S.C.C.T., Arkansas State University Ed.D., University of Memphis	Assistant Professor of Teacher Education	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
JASON STEWART, 1998 B.S., Arkansas State University M.S., Texas A&M University	Temporary Instructor in Agricultural Engineering	DEREK TEANEY, 2006 B.S., Yale University Ph.D., State University of New York at Stonybrook	Assistant Professor of Physics
PAULA STEWART-LIMA, 2002 B.S.E., University of Missouri—Columbia M.S.E., Arkansas State University Ph.D., University of Arkansas-Fayetteville	Assistant Professor of Teacher Education —ASU-Mountain Home	KEAT TEOH, 2007 B.S., University of Victoria—Canada M.S., Worcester Polytechnic Institute Ph.D., Texas A&M University	Research Assistant Professor —ASU Arkansas Biosciences Institute
JIM L. STILLWELL, 1994 B.S., Western Illinois University M.S., Western Illinois University P.E.D., Indiana University	Professor of Physical Education —Chair, Department of Health, Physical Education, and Sport Sciences	MATTHEW THATCHER, 2008 B.A., University of California—Berkeley M.A., University of Iowa Ph.D., University of Iowa	Assistant Professor of Communication Studies
VICKI STRIPLING, 2005 B.S.E., Arkansas State University M.S.E., Arkansas State University	Instructor in Developmental Reading —First Year Studies	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
HUBERT B. STROUD, 1968 B.S., Austin Peay State University M.A., Memphis State University Ph.D., University of Tennessee	Professor of Geography	BONNIE L. THRASHER, 1993 B.S., Mississippi University for Women M.A., University of Alabama	Instructor in Journalism —Director, Center for Learning Technologies
NAREATHA STUDDARD, 2004 B.S., Alabama A&M University M.A., Seton Hall University	Assistant Professor of Management	HENRY TORRES, 2002 B.S., Texas Tech University M.B.A., Henderson State University	Temporary Senior Lecturer in Information Systems —Director, Center for Learning Technologies
HUNG-CHI SU, 2003 B.S., National Cheng-Kung University M.S., Oklahoma State University Ph.D., Oklahoma State University	Assistant Professor of Computer Science	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	DEBRA J. WALDEN, 1988 B.A., Southwestern at Memphis B.S.N., St. Louis University M.N.Sc., University of Arkansas for Medical Sciences	Assistant Professor of Nursing
STANLEY E. TRAUTH, 1984 B.S., University of Arkansas—Fayetteville M.S., University of Arkansas—Fayetteville Ph.D., Auburn University	Professor of Zoology —Director, Electron Microscope Facility	LEAH WALKER, 2001 B.S., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Engineering
JANNIE HUFFMAN TRAUTWEIN, 1984 B.S., Henderson State University M.S., Clemson University	—Director, Rural Institute for Math/Science Education	THERESA WALKER, 2008 B.S., Arkansas State University	Coordinator, ASU Degree Center—Mt. Home
MARCUS TRIBBETT, 2005 B.A., Harvard University M.A., Northern Arizona University Ph.D., Washington State University	Instructor / Advisor in First Year Studies	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
STACY TROXEL, 2002 B.S.N., University of Texas M.S.N., Arkansas State University	Assistant Professor of Nursing	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 —Chair, Department of Political Science
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 —Chair, Social Work Department	JIM WASHAM, 1991 B.S., Arkansas State University M.B.A., Arkansas State University Ph.D., University of Mississippi	Associate Professor of Finance —Chair, Department of Economics and Finance
ROLLIN TUSALEM, 2008 B.S., Grand Canyon University M.A., Ball State University	Assistant Professor of Political Science	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
YVONNE UNNOLD, 2008 B.A., University of California M.A., University of Washington—Seattle Ph.D., University of Washington—Seattle	—Chair, Department of Languages and Associate Professor of Languages	AMANDA WATLINGTON, 2007 B.S., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Journalism
JOHNNY VAN HORN, 2006 B.S., University of Arkansas—Fayetteville M.B.A., Arkansas State University	Temporary Instructor in Accounting and Business Law	MITCHELL WATROUS, JR, 2005 B.S., Roanoke College M.A.Ed., Virginia Polytechnic Institute & State University	Assistant Professor of Clinical Lab Sciences
STARIA VANDERPOOL, 1994 B.Sc., School of the Ozarks M.Sc., Arkansas State University Ph.D., University of Oklahoma	Assistant Professor of Botany	JULIE WATSON, 2003 B.S., Middle Tennessee State University M.S., Arkansas State University	Temporary Instructor in Agriculture and Coordinator of Equine Center
PRASANNA VASU, 2007 B.S., University of Mysore—India M.S., University of Mysore—India Ph.D., University of Mysore—India	Research Assistant Professor —ASU Arkansas Biosciences Institute	PAMELA WEATHERS, 2006 B.S., Marquette University-Milwaukee Ph.D., Michigan State University	Director of the Molecular Biosciences Graduate Program —Judd Hill Distinguished Professor of Agricultural Biotechnology
KIMBERLY VICKREY, 1999 B.F.A., Delta State University M.F.A., University of Memphis	Associate Professor of Graphic Design	KELLY WEEKS, 2001 B.A., Rhodes College M.S., University of Memphis	Temporary Instructor in Management
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	KORTNEY WHITE, 2003 B.S., Arkansas State University M.B.A., Arkansas State University	Temporary Senior Lecturer in Information Technology
CPT BENJAMIN VINCENT, 2005 B.S., Kansas City University	Assistant Professor of Military Science	RICK WHITE, 2008 B.S., Arkansas State University M.S., University of Missouri—Rolla	Instructor in Industrial Technology
LISA WAGGONER, 2008 B.S.N., Arkansas State University M.S.N., Arkansas State University	Temporary Assistant Professor of Nursing	TRACY WHITE, 1999 B.S., University of Central Arkansas	Associate Professor of Radiologic Sciences
		J. DARRELL WIDICK, 1984 B.S.A., University of Tennessee M.S., University of Arkansas—Fayetteville Ph.D., University of Arkansas—Fayetteville	Assistant Professor of Agronomy (UA/ASU Research)

WYNONA WIGGINS, 1993 B.S.N., Arkansas State University M.S.N., University of Tennessee—Memphis	Assistant Professor of Nursing	LaTOSHA SCAIFE WOODS, 2005 B.S.E., Arkansas State University M.S.E., Arkansas State University	Temporary Instructor in Reading Education
BARBARA WIKE, 1999 B.S.N., University of Arkansas—Monticello M.S.N., University of Central Arkansas	Assistant Professor of Nursing (CVN at ASU-Mountain Home)	MERYL WORLEY, 2002 B.S., Longwood College M.E., University of Virginia	Instructor in Teacher Education
SARAH WILKERSON-FREEMAN, 1996 B.A., University of Iowa M.A., University of North Carolina Ph.D., University of North Carolina	Associate Professor of History	PEGGY WRIGHT, 1998 B.A., Arkansas State University M.P.A., Arkansas State University	Instructor in Geography Coordinator, Delta Studies Center
JOHN WILLCUTTS, 2003 B.S., University of Florida M.E., University of Florida	Temporary Instructor in Engineering	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	Professor of Higher Education and Art —President of the University
CARMEN WILLIAMS, 2003 B.S.E., Arkansas State University M.A., Arkansas State University	Instructor In English	WILLIAM VINCENT WYATT, 1967 B.S., Arkansas State University M.S., University of Arkansas-Fayetteville Ph.D., University of Arkansas-Fayetteville	Professor of Chemistry
DIANA WILLIAMS, 1999 B.A., Southern Methodist University M.A., University of North Texas—Denton Ed.D., University of Nevada—Las Vegas	Associate Professor of Teacher Education	KAREN L. YANOWITZ, 1996 B.A.S., Brandeis University M.S., University of Massachusetts Ph.D., University of Massachusetts	Associate Professor of Psychology
GAYLE WILLIAMS, 1991 B.A., Arkansas State University M.A., Arkansas State University Ph.D., University of Mississippi	Instructor in English	MARILYN YERGLER, 1998 B.S.N., University of Arkansas—Fayetteville	Temporary Assistant Professor of Nursing
PATRICK WILLIAMS, 2006 B.S., University of Tennessee—Chattanooga M.A., East Tennessee State University Ph.D., University of Tennessee	Assistant Professor of Sociology	CHARLOTTE YOUNG, 1994 B.S.N., University of South Carolina M.S.N., Catholic University M.S., The Citadel Ph.D., Syracuse University	Professor of Nursing
PRESTON WILLIAMS, 1999 B.S., Arkansas State University M.B.A., Arkansas State University	Temporary Instructor in MIS	NANCY YOUNG, 1966 B.S.E., Arkansas State University M.S.E., Arkansas State University	Instructor in English
R. WHITNEY WILLIAMS, 1986 B.S., Southwestern State College M.S., East Texas State University Ph.D., Oklahoma State University	Associate Professor of Clinical Lab Sciences —Director, Clinical Laboratory Sciences Program	NATHAN YOUNG, 2006 B.S.E., University of Iowa M.S., University of Iowa	Assistant Professor of Civil Engineering
PAIGE WIMBERLEY, 1997 B.S.N., Arkansas State University M.S.N., Arkansas State University	Assistant Professor of Nursing	LILY ZENG, 2004 B.A., Hunan Normal University—China M.A., Zhongshan University—China Ph.D., Southern Illinois University	Assistant Professor in Radio-Television
RAYMOND WINTERS, 1995 B.A., Harding University B.S., Midwestern State University M.S., Amber University	Associate Professor of Radiologic Sciences —Director, Radiologic Sciences Program	BIN ZHANG, 2000 B.S., Peking University M.S., Columbia University M.Ph., Columbia University Ph.D., Columbia University	Associate Professor of Physics
LINDA WOMACK, 2001 B.S.E., Arkansas State University M.S.E., Arkansas State University	Temporary Instructor in Mathematics and Statistics	LIANGMIN ZHANG, 2008 B.S., Qufu Normal University—China M.S., Shanxi Normal University—China Ph.D., Shandong University—China	Assistant Professor of Physics
CARLOS WOOD, 2001 B.S., Arkansas State University	Temporary Instructor in Engineering	QINGYU ZHANG, 2001 B.E., Tsinghua University B.A., Tsinghua University M.E., Tsinghua University Ph.D., University of Toledo	Associate Professor of Computer & Information Technology
STANLEY WOOLDRIDGE, 2000 B.S.E., Arkansas State University M.S., Arkansas State University	Temporary Instructor in Mathematics		

HONG ZHOU, 2006 Temporary Visiting Assistant Professor of Mathematics and 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

Emeriti

Robert F. Abbott, 1967-1991	Emeritus Professor of Counselor Education and Psychology
Cindy Albright, 1976-2007	Emeritus Assistant Professor of Physical Education
Ed Alexander, 1994-2006	Emeritus Assistant Professor of Music
T.R. Baker, 1966-1992	Emeritus Associate Professor of Art Education
Larry Ball, 1970-2001	Emeritus Professor of History
Eugene A. Ballard, 1964-1990	Emeritus Assistant Professor of Printing
Rosalie Barber, 1969-2000	Emeritus Instructor in Physical Education
Edmund L. Barnette, 1967-1993	Emeritus Professor of Counselor Education and Psychology
Beverly Bartels, 1970-1998	Emeritus Associate Professor of Nursing
Ovid Bayless, 1974-1998	Emeritus Professor of Speech Communication and Chair of Speech Communication and Theatre Arts
John K. Beadles, 1968-1993	Emeritus Professor of Biology and Dean, Graduate School
J. Edward Bennett, 1963-1997	Emeritus Professor of Chemistry
John B. Bennett, 1968-1990	Emeritus Associate Professor of Mathematics
Thomas D. Bishop, 1970-2002	Emeritus Professor of Mathematics and Computer Science
Loretta Bookout, 1987-1997	Emeritus Instructor in Elementary Education
Carolyn Bowers, 1975-1997	Emeritus Associate Professor of Early Childhood Education
Robert Bowman, 1970-1999	Emeritus Professor of Mathematics
Willis Brenner, 1985-1998	Emeritus Documents Librarian
Lew Brinkley, 1969-2005	Emeritus Professor of Agricultural Economics
David Burgess, 1973-1998	Emeritus Associate Professor of Health Education
Julia Burkart, 1984-1996	Emeritus Associate Professor of Social Work
James Burleson, 1963-2000	Emeritus Professor of English
Alta Burns, 1961-1996	Emeritus Assistant Professor of Physical Education
John L. Burns, 1969-1994	Emeritus Professor of Counselor Education
Sandra Burns, 1984-1996	Emeritus Assistant Professor of Business Law
William Byrd, 1955-1993	Emeritus Associate Professor of Biology
Martha Caldwell, 1985-1993	Emeritus Assistant Professor of Nursing
Richard Carvell, 1971-2008	Emeritus Assistant Professor of Radio-Television
James Cathey, 1986-2003	Emeritus Instructor in Radio-Television
William G. Chance, 1965-1990	Emeritus Professor of Education
Ruby Chittenden, 1968-2000	Emeritus Director of the COB Advising Center

Larry Clowers, 1969-2000 Emeritus Assistant Professor of Sociology
 Baron Conaway, 1965-1995 Emeritus Professor of Reading
 Harold L. Copenhaver, 1970-1988 Emeritus Professor of Music and Dean of Fine Arts
 Glenda Lee Coppedge, 1995-2007 Emeritus Temporary Instructor in English
 William Crumpton , 1980-2006 Emeritus Associate Professor of Agricultural Engineering
 Roberta Daniels, 1985-1999 Emeritus Professor of Gifted & Talented Education
 Scott Darwin, 1969-2008 Emeritus Professor of German
 Emma Sue Davidson, 1972-1988 Emeritus Assistant Professor of Education
 Don Denny, 1958-1993 Emeritus Associate Dean of Students
 Bonnie Deuter, 1981-2003 Emeritus Assistant Professor of Nursing
 James A. DeVazier, 1967-1991 Professor of Physical Education
 Beverly DeWater, 1972-2001 Emeritus Assistant Professor of Psychology
 Jack Dison, 1976-2000 Emeritus Associate Professor of Sociology
 Gerald Dickinson, 1990-2005 Emeritus Professor of Education
 Michael Dougan, 1970-2006 Emeritus Professor of History
 Ervin Dunham, 1967-1983 Emeritus Professor of Music
 John Enger, 1976-1999 Emeritus Professor of Education
 David England, 1984-2006 Emeritus Associate Professor of Political Science
 Daniel O. Felts, 1967-1996 Emeritus Instructor in Mathematics
 Robert L. Ferralasco, 1952-1989 Emeritus Professor of Administrative Services and Chair of CIS and Administrative Services
 Charles Ford, 1969-2006 Emeritus Professor of Marketing
 Wilbert Gaines, 1972-2005 Emeritus Associate Professor of Physical Education
 Raymond Gazik, 1967-1998 Emeritus Professor of Mathematics
 Roy Gehring, 1968-2000 Emeritus Associate Professor of Environmental Botany
 Martha Jane Gill, 1970-2002 Emeritus Instructor in French
 David Gillanders, 1984-2006 Emeritus Professor of Electrical Engineering
 Betty B. Goldsby, 1969-1985 Emeritus Instructor in Elementary Education
 Fay Beth Gray, 1966-1969; 1972-2000 Emeritus Professor of Business Systems
 William Greenwald, 1972-2007 Emeritus Associate Professor of History
 Lyman Hagen, 1969-1993 Emeritus Professor of English
 James W. Hansard, 1964-1996 Emeritus Director of Dean B. Ellis Library
 George Harp, 1967-1999 Emeritus Professor of Environmental Biology

Afak Haydar, 1970-1997 Emeritus Professor of Political Science and Public Administration, Associate Dean of University College, and Executive Director of International Programs and Services
 Jasper A. Hayles, Jr., 1967-1988 Emeritus Professor of Agricultural Education
 George Y. Herndon, 1968-1985 Emeritus Professor of Speech Pathology
 Lawrence Hinck, 1969-2001 Emeritus Professor of Microbiology
 Jeffrey Hoepfer, 1980-2004 Emeritus Professor of English
 William Holmes, 1977-2000 Emeritus Professor of Music
 Joe Horseley, 1983-2006 Emeritus Assistant Professor of Marketing
 Terry L. Huckabee, 1969-1998 Emeritus Assistant Professor of Theatre Arts
 James A. Hutchison, 1965-1992 Emeritus Professor of Biology
 Perry Isbell, 1983-2005 Emeritus Assistant Professor of Technology
 James W. Jackson, 1959-1986 Emeritus Instructor in Physical Education
 Bob D. Johnson, 1967-1998 Emeritus Professor of Zoology
 Charles Joiner, 1987-2006 Emeritus Associate Professor of Social Work
 Charlott Jones, 1972-1999 Emeritus Associate Professor of Art Education and Director of the Museum
 Ellis Julien, 1968-2008 Emeritus Professor of Music
 Joseph Justen, 1981-2004 Emeritus Professor of Special Education
 John Kaminarides, 1968-2001 Professor of Economics
 Donald P. Kedzie, 1984-1996 Emeritus Professor of Mechanical Engineering
 John Keech, 1968-2008 Emeritus Professor of Art
 Howard Keene, 1964-1993 Emeritus Professor of Animal Science
 John D. Kelly, 1975-1998 Emeritus Professor of Music
 Charles Kenner, 1966-1995 Emeritus Professor of History
 Robert Kern, 1956-1993 Emeritus Director of the Printing Plant
 Jerry King, 1972-2000 Emeritus Associate Professor of Sociology
 Donald E. Konold, 1954-1989 Emeritus Professor of History
 C. Roger Lambert, 1966-1997 Emeritus Professor of History
 Albin J. Langlois, 1964-1997 Emeritus Professor of Agriculture
 Julia Lansford, 1964-2008 Emeritus Associate Professor of Music
 Norman Lavers, 1976-2000 Emeritus Professor of English
 Jane H. LeBlanc, 1971-1981 Emeritus Instructor in Audiology

Nadean Lee, 1968-1992 Emeritus Head Circulation Librarian

Gary Leibrock, 1976-2003 Emeritus Instructor in Physical Education

Evan Lindquist, 1963-2003 Emeritus Professor of Art

Jerry Linnstaedter, 1968-2007 Emeritus Professor of Mathematics

Laddie Logan, 1979-2000 Emeritus Associate Professor of Marketing

Coy London, 1970-1996 Emeritus Associate Professor of Accounting

Robbie Lyle, 1976-1992 Emeritus Instructor in Developmental Programs

Julia M. Hite Manley, 1966-1976 Emeritus Associate Professor of Biology

Ross Marlay, 1975-2008 Emeritus Professor of Political Science

Katherine Masters, 1977-2002 Emeritus Instructor in Developmental Studies and Director of Freshman Studies

Mitchell M. Master, 1976-2002 Emeritus Professor of Education and Coordinator, Community College Teaching Program

Steven L. Mayes, 1988-2002 Emeritus Professor of Art

Hal McCloud, 1966-1998 Emeritus Professor of Physics

Leonard McDaniel, 1967-1996 Emeritus Registrar

Mary Lou McDaniel, 1967-1993 Emeritus Assistant Dean of Students

V. Rick McDaniel, 1972-2007 Emeritus Professor of Zoology and Senior Associate Vice Chancellor for Academic Affairs

C. K. McFarland, 1971-1997 Emeritus Professor of History and Management

Richard McGhee, 1991-2003 Emeritus Professor of English

B.C. McGough, 1965-1987 Emeritus Professor of Real Estate

Alvin J. McRaven, 1965-1991 Emeritus Professor of Education

Lawrence Mink, 1966-2000 Emeritus Professor of Physics

Richard S. Mitchell, 1964-1998 Emeritus Professor of Chemistry

Logan Moon, 1968-1995 Emeritus Assistant Professor of English

Owen Moseley, 1986-2001 Emeritus Professor of Accounting

John Muir, 1985-2005 Emeritus Professor of Agronomy

Roland Mullins, 1965-1986 Emeritus Professor of Economics and Finance

Paul Nave, 1969-2003 Emeritus Professor of Chemistry and Chair, Department of Chemistry and Physics

David W. Niederbrach, 1959-1997 Emeritus Associate Professor of Music

Larry Olson, 1970-2001 Emeritus Associate Professor of Entomology

William Olson, 1984-1999 Emeritus Associate Professor of Management

Harriet O'Neal, 1975-2000 Emeritus Instructor in Music

Linda Parchman, 1976-1996 Emeritus Professor of Physical Education

James L. Patty, 1965-1989 Emeritus Professor of Music

Emilio Perez, 1975-1995 Emeritus Professor of Communicative Disorders

Susan Power, 1968-2000 Emeritus Professor of Political Science

Carol Pratt, 1976-1998 Emeritus Assistant Professor of Theatre Arts

Emmett A. Presley, 1975-1993 Emeritus Assistant Professor of Social Work

Paul Raines, 1972-1990 Emeritus Associate Professor of Botany

Charles L. Rasberry, 1961-1987 Emeritus Professor of Radio-Television and Chair of Radio-Television

Stephen Replogle, 1970-2008 Emeritus Professor of Computer and Information Technology

Lyle G. Rhea, 1983-1994 Emeritus Professor of Mechanical Engineering

Edward L. Richards, 1963-1994 Emeritus Professor of Botany

Donald Roberts, 1968-1999 Emeritus Professor of Management Information Systems

Ellen Robinson, 1965-1994 Emeritus Assistant Professor of English

Luis Rodriguez, 1980-1994 Emeritus Associate Professor of Business Law

Jennifer Rogers, 1986-2005 Emeritus Instructor in Radio-Television

Keith Rogers, 1986-2000 Emeritus Professor of Agricultural Economics and Dean of Agriculture

Timothy Ross, 1965-2000 Emeritus Professor of History

Amos B. Rougeau, 1957-1992 Emeritus Professor of Agricultural Education

Mary Beth Rutherford, 1986-2005 Emeritus Associate Professor of Clinical Lab Sciences

Vance Sales, 1960-1991 Emeritus Professor of Education and Dean of Education

Louis Semrau, 1977-2001 Emeritus Professor of Special Education

Pat Shackelford, 1976-1997 Emeritus Associate Professor of Agricultural Engineering

J.B. Sheofee, 1964-1987 Emeritus Assistant Professor of Mathematics

J. Marlin Shipman, 1981-2007 Emeritus Professor of Journalism

Dewey H. Sifford, 1961-1997 Emeritus Professor of Chemistry

Frances Smallwood, 1964-1987 Emeritus Assistant Professor of Physical Education

C. Calvin Smith, 1970-2002 Emeritus Professor of History

Eugene Wilson Smith, 1958-1992 Emeritus President of the University and Professor of Education

Lois M. Snider, 1970-1990 Emeritus Instructor in Nursing

Jared Spears, 1967-1999 Emeritus Professor of Music

Norman Stafford, 1977-2008 Emeritus Professor of English
Helen S. Steger, 1981-1992 Emeritus Assistant Professor of Counselor Education
James H. Stevenson, 1965-1980 Emeritus Professor of Biology and Dean of Science
Elizabeth Stokes, 1991-2005 Emeritus Professor of Nursing
Shirl D. Strauser, 1966-1994 Emeritus Professor of Accounting
Herman Strickland, 1972-2008 Emeritus Associate Professor of Teacher Education
 Dean, University College
Peggy Stroud, 1954-1984 Emeritus Associate Dean of Students
Jack Sugg, 1968-1999 Emeritus Assistant Professor of Physical Education
Ann Swaty, 1975-2004 Emeritus Assistant Professor of Music
Lois Ann Swisher, 1969-1990 Emeritus Assistant Professor of Spanish
Lonnie Talbert, 1966-1998 Emeritus Professor of Economics
Fuad Talib, 1982-2001 Emeritus Associate Professor of Insurance
Richard L. Tangeman, 1970-2002 Emeritus Professor of Mathematics and Computer Science
Patricia Teddlie, 1978-2006 Emeritus Professor of Sociology
Aubrey W. Tennille, 1962-1987 Emeritus Professor of Agronomy
John B. Thomas, 1984-1993 Emeritus Instructor in Journalism
Dan Timmermann, 1967-1993 Emeritus Professor of Botany
Stephen Tricarico, 1968-2001 Emeritus Assistant Professor of Geography
Norman Trautwein, 1967-2003 Emeritus Professor of Chemistry
Stanley Vanagunas, 1983-2000 Emeritus Professor of Public Administration
Carl Vaupel, 1971-2002 Emeritus Professor of Education
David Vosburg, 1966-1996 Emeritus Associate Professor of Geology
Theron Waddle, 1980-2002 Emeritus Associate Professor of Music
W.F. Wei, 1966-1985 Emeritus Associate Professor of Physics
Patricia Lawson Welch, 1978-2003 Emeritus Instructor in Health Education
Dennis White, 1974-2007 Emeritus Associate Professor of Communication Studies
Jess R. White, 1968-1989 Emeritus Professor of Physical Education
Grace Whitis, 1985-1999 Emeritus Professor of Nursing
Robert Whitis, 1985-1999 Emeritus Professor of Accounting
Dalton Whitt, 1968-1997 Emeritus Assistant Professor of Accounting
Emelda Williams, 1978-2000 Emeritus Professor of Marketing
 and Chair of Management, Marketing & Business Systems

J. Larry Williams, 1974-1997 Emeritus Professor of Sociology
Stanley H. Williams, 1972-1997 Emeritus Professor of Education
William Williams, 1978-1996 Emeritus Associate Professor of Finance
Mary Lou Wood, 1965-1995 Emeritus Assistant Professor of Administrative Services
Donald E. Wright, 1970-1997 Emeritus Professor of Education
Charles Yauger, 1964-2000 Emeritus Associate Professor of Management

Administrative Support Staff 2008-2009

FINANCE AND ADMINISTRATION

Administrative Services	Jo LunBeck, Director
Budget Planning and Development	Donna McMillin, Director
Controller's Office	Russ Hannah, Controller
Convocation Center	Tim Dean, Director
Facilities Management	Al Stoverink, Assistant Vice Chancellor
Human Resources	J. W. Mason, Associate Vice President
Information & Technology Services	Mark Hoeting, Chief Information Officer
Procurement Services	Carol Barnhill, Director
Sponsored Programs Accounting	Renita Gray, Director
Treasurer's Office	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	Glen Jones, Senior Associate Vice Chancellor for Academic Affairs and Research and Executive Assistant to the Chancellor for Diversity
	Lynita Cooksey, Associate Vice Chancellor for Academic Services and Interim Dean of University College
Administrative Services	Robin Hicks, Executive Assistant
Delta Center for Economic Development	Alan McVey, Executive Director
Delta Heritage Initiatives	Ruth Hawkins, Director
Fowler Center	Bob Siimspn, Interim Director
Institutional Research, Planning, and Assessment	Kathryn Jones, Director
International Programs & Services	Tugrul Polat, Director
Museum	Marti Lu Allen, Director
Office of the Registrar	Tracy Finch, Registrar
Regional Programs	Verlene Ringgenberg, Dean
Wilson Advising Center	Jill Simons, Director

STUDENT AFFAIRS

Student Services	Lonnie Williams, Associate Vice Chancellor
Student Services	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	Jenifer Rice-Mason, Director
Enrollment Services	Gregory Thornburg, Dean
Financial Aid	Robin Kaloghrou, 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	Markham Howe, Director
University Relations	Markham Howe, Director

Course Descriptions

THE HONORS COLLEGE

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. An application for this course is available on the Honors website. Demand.

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 or combination of Honors Independent Study may be applied toward graduation in University Honors.

*A sampling of 3000/4000 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 Roll
Representation of the Civil Rights Movement in American Culture
It's hot, it's sexy, it's Your Research: Science and the Media
Humor and Laughter
Lower Mississippi Delta History & Culture

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. After Submission to the Associate Dean for The Honors College, they are then presented to the University Honors Advisory Committee for adoption, scheduling and offering.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

**An Independent Study requires Honors standing and written approval by the following: supervising professor for the course, advisor in the major, the Honors advisor in the major, the department chair, the College Honors Advisory Committee chair, and the Dean for The Honors College. Once the signed independent study approval form and required documentation is submitted to The Honors College, the student will be enrolled in independent study hours. An independent study course may, with approval, be used for senior thesis preparation.

***The Thesis Topic Approval Process requires Honors standing and written approval by the following: supervising faculty member, the thesis committee, the major advisor, the Honors advisor in the major, the department chair, the College Honors Advisory Committee chair, and the Dean for The Honors College. The Thesis Approval Process includes a proposal in which the student documents his/her thesis topic and process. After the proposal meeting is held and the committee has approved the project, the signed thesis approval form is submitted to The Honors College and the student can then be registered in thesis hours.

Additional information regarding The Honors College and its programs can be found on The Honors College Website at <http://honors.astate.edu>.

UNIVERSITY COLLEGE

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.

University College (UC)

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.

UC 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.

UC 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.

UC 1001. Restart Seminar Designed to provide students in academic distress a means to examine their transcript, study habits, and long term academic goals through necessary academic advising and effective decision making. Case studies, class discussion, and journal assignments provide an opportunity to apply new skills for consistent and longterm success. Enrollment limited to students on academic suspension or by referral from the Admissions and Credits Committee. Fall, Spring.

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

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

- UC 1011. College Choices Seminar** This seminar is designed to offer supplemental academic advising and to teach college success skills for first-year students on academic probation.
- UC 1013. 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.
- UC 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.
- UC 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.
- UC 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.
- UC 301V. 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.
- UC 311V. Study Abroad, Unaffiliated Programs** Holding courses for students enrolled in study abroad programs not affiliated with ASU. Demand.
- UC 4003. Washington Center Civic Engagement and Leadership** Provides understanding of the attributes of civic engagement, professional achievement and leadership development. Participation in the Washington Center Internship program required. Demand.
- UC 401V. Washington Center Internship** Washington Center for Internships and Academic Seminars Program Internship. Demand.
- UC 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.

COLLEGE OF AGRICULTURE

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

Agricultural Business and Economics (AGEC)

- AGEC 1003. Introduction to Agricultural Business** Structure and organization of agricultural business. Basic economic principles and their application to agriculture. Fall, Spring.
- 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, AGECEC 1003 or ECON 2313 or ECON 2323. Spring.
- AGEC 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, AGECEC 1003 or instructor approval. Fall, Spring.
- AGEC 3023. Cooperatives** Organization, capitalization, and management of cooperative businesses. Operational practices and problems. Role of cooperative organizations in agricultural business. Prerequisite, AGECEC 1003 or ECON 2313 or ECON 2323. Spring.
- AGEC 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, AGECEC 1003 or MKTG 3013. Demand.
- AGEC 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, AGECEC 1003 or ECON 2313 or ECON 2323. Demand.
- AGEC 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, AGECEC 1003 or ECON 2313. Spring.
- AGEC 4013. Farm Appraisal** Factors governing the price of land, methods of land valuation, appraisals for use, sale, loan, and taxation. Prerequisite, AGECEC 1003 or ECON 2313 or ECON 2323. Demand.
- AGEC 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, AGECEC 3003, MKTG 3013, or consent of instructor. Fall.
- AGEC 4033. Agricultural Law** Farm laws pertaining to land purchases, legal descriptions, leases, mortgages, security agreements, fences, drainage, irrigation, pollution, and quarantines. Prerequisite, AGECEC 1003 or ECON 2313 or ECON 2323. Spring.
- AGEC 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, AGECEC 1003. Demand.

AGEC 4053. Agricultural Finance Financial elements of the farm business. Emphasis will be given to the use and sources of agricultural credit. Prerequisite, AGECE 1003 or ECON 2313 or ECON 2323. Fall.

AGEC 4063. Financial Analysis of Agribusiness Study of quantitative concepts and methods used in the financial analysis of the agricultural business firm. Prerequisite, ACCT 2023 or ACCT 2133. Fall, Spring.

AGEC 4073. Agricultural Business Management Principles and problems involved in acquiring, organizing, and operating successful farms, ranches and other agricultural businesses, balance of enterprises, capital requirements, emphasis on managerial principles and management simulation. Prerequisite, AGECE 1003 or ECON 2313 or ECON 2323. Fall, Spring.

AGEC 4083. Agricultural Policy and Current Issues Economic developments in agriculture, role of the government in agriculture and policies affecting rural people are considered. Text and current information are utilized. Prerequisite, AGECE 1003 or ECON 2313 or ECON 2323. Fall, Spring.

AGEC 4173. Natural Resource Economics Comprehensive overview of economics of natural resource and environment. Theoretical and empirical analysis, valuations and examinations of sustainable quality of environmental and natural resources over time. Economic reasoning for examining natural resource problems and measures for dealing with them. Prerequisites, AGECE 1003 or ECON 2313 or ECON 2323 or consent of instructor. Dual Listed AGECE 5173. Demand.

AGEC 419V. Special Problems in Agricultural Economics For students of senior standing. Approval of the instructor and dean necessary. Credit of one, two, or three hours as arranged. Spring, Fall, Summer.

Agricultural Education (AGED)

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.

AGED 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.

AGED 2411. Home and Farm Improvement Learn about improvements that can increase usefulness and value of home or farm. Course will include such topics as building fences, energy conservation, electrical and plumbing repairs, small tractor selection and maintenance. Course content may vary according to participant interest. Demand.

AGED 2421. Introduction to Welding Processes An introduction to common welding, metal cutting processes and appropriate safety practices, and techniques associated with gas welding, shielded metal arc welding, gas metal arc welding, and gas tungsten arc welding. Demand.

AGED 2431. Introduction to Alternative Energy Sources An introductory course on the use and applications of alternative energy sources and the implications to society. Demand.

AGED 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, AGECE 1403. Spring, odd.

AGED 2441. Introduction to Electricity An introduction to basic electrical theory, appropriate safety practices, and applied techniques associated with electricity. Demand.

AGED 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.

AGED 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.

AGED 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.

AGED 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, AGECE 1403. Fall, odd.

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

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

AGED 445V. Practicum in Agricultural Communications Practicum provides opportunities for students to gain practical experiences in a real working environment with trained professionals in the communications field. Fall, Spring, Summer.

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

AGED 4473. International Agriculture Study Tour To develop an awareness and perspective of international agricultural enterprises and educational programs and how world agricultural systems relate to and impact the U. S. agricultural system. Includes a focus on environmental issues related to food and fiber production. Permission of Instructor required. Prerequisite, minimum of 60 hours. Dual Listed AGECE 5473. Demand.

AGED 459V. Special Problems in Agricultural Education For students of senior standing. Approval of the instructor and dean necessary. Credit of one, two, or three hours as arranged. Fall, Spring, Summer.

Agriculture (AGRI)

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.

AGRI 1213. Making Connections in Agriculture First semester freshman course centered around the skills and knowledge needed to be a successful ASU College of Agriculture student, including academic performance, problem solving, critical thinking, self management, university policies, issues, trends, and disciplines in agriculture. Fall.

AGRI 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.

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

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

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

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

AGRI 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. Demand.

AGRI 3723. Agricultural Connections, Technical Interpretation and Professional Applications Exercises to synthesize high quality technical information from multiple sources into different types of professional written and verbal presentations, using problem solving exercises. Analytical skills and interactive discussions are emphasized. Prerequisite, AGRI 1213. Prerequisites or corequisites, AGRI 3233 or ECON 2113 or STAT 3233. Fall, Spring.

AGRI 420V. Internships in Agriculture Provides field based experience in private business, industry or public agencies which will enhance knowledge and skills needed for career advancement, approval of Internship Committee required. Spring, Fall, Summer.

AGRI 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.

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

AGRI 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. Demand.

AGRI 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. Demand.

AGRI 4773. Remote Sensing The course will cover the image acquisition and image processing methods using ERDAS Image software as the analytical assessment package. Prerequisite, PSSC 3503 or permission from Instructor. Demand.

Animal Science (ANSC)

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

ANSC 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.

ANSC 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.

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

ANSC 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.

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

ANSC 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. Demand.

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

ANSC 3003. Small Animal Nutrition Fundamental concepts of nutrition applied to companion animals including dogs, cats, and other common pets. Prerequisite, ANSC 1613 or BIO 2013. Spring.

ANSC 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 BIO 2013. Fall, odd.

- ANSC 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.
- ANSC 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.
- ANSC 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. Demand.
- ANSC 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. Prerequisites, ANSC 1613 and BIO 1303. Fall.
- ANSC 3653. Meat Science and Processing** Study of meat science and meat processing. Properties of fresh and processed meats. Instruction in the preservation of meat and meat products, including hands on experience in processed meat manufacturing, curing, and barbecuing. Demand.
- ANSC 3663. Sheep Production** Methods of management in producing sheep and handling of purebred flocks. Lecture two hours, laboratory two hours per week. Prerequisite, ANSC 3613. Demand.
- ANSC 3693. Artificial Insemination** Reproductive physiology as related to artificial insemination, techniques of collection, evaluation, dilution, storage of semen, insemination and application including advantages, limitation, and cost. Lecture two hours, laboratory two hours per week. Demand.
- ANSC 3703. Poultry Flock Management** Management of laying and brooding flocks, raising of replacements, study of all economic factors relating to efficient production and marketing. Lecture two hours, laboratory two hours per week. Prerequisite, ANSC 2703. Demand.
- ANSC 3723. Poultry Diseases** Common diseases of poultry, their detection, prevention, and treatment. Demand.
- ANSC 4603. Swine Production** Basic principles and their application in pork production, breeding, selection, nutrition, housing, equipment, and economic management. Prerequisite, ANSC 3613. Spring.
- ANSC 4613. Horse Production** Selection, breeding, feeding, management, marketing of horses, and equitation. Lecture two hours, laboratory two hours per week. Prerequisite, ANSC 1613. Spring.
- ANSC 4623. Beef Cattle Production** Management practices of commercial and purebred herds. Lecture two hours, laboratory two hours per week. Spring.
- ANSC 4633. Diseases of Farm Animals** Prevention, treatment, and control of common diseases, including problems of hygiene and sanitation. Prerequisite, ANSC 3633. Demand.
- ANSC 4643. Techniques of Animal Production** Practical work with herds. Required of all animal science majors. Laboratory three hours twice weekly. Demand.
- ANSC 4663. Principles of Breeding** Basic application of genetic principles to the improvement of farm animals. Fall.

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- ANSC 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 CHEM 1013. Spring.
- ANSC 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. Prerequisite, ANSC 1613. Spring.
- ANSC 4691. Advanced Animal Nutrition Laboratory** Designed to provide students with theories and skills associated with nutrition related laboratory analyses. Demand.
- ANSC 4693. Integrated Poultry Management** Production principles and problem solving strategies used by vertically integrated poultry companies. Prerequisite, ANSC 2703 or permission of instructor. Demand.
- ANSC 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.
- ANSC 4733. Endocrinology of Farm Animals** Endocrinology system and its role in lactation, reproduction, digestion, and metabolism. Demand.
- ANSC 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.
- ANSC 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.

Methods and Materials Teaching Agricultural Education (EDAG)

- EDAG 4623. Special Methods for Teaching Agricultural Education** Overview of major components of an efficient agriculture department at the secondary school level. Emphasis on teaching methods and materials required for the agriculture classroom and mechanics laboratory. Opportunities for course planning, classroom management, record development, and career orientation. Must be admitted to the Teacher Education Program. Spring.

Food Science and Technology (FDST)

- 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.
- FDST 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.

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- FDST 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.
- FDST 2503. Food Safety and Sanitation** Principles of sanitation, cleaners and sanitizers, sanitary equipment and plant designs, and microbial growth and control in food processing operations. Demand.
- FDST 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.
- FDST 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.
- FDST 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)

- 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.
- HORT 2253. Fundamentals of Horticulture** Growth, fruiting habits, propagation, and culture of horticultural plants. Lecture two hours, laboratory two hours per week. Demand.
- HORT 2263. Horticulture Technology** In depth coverage of structures, equipment, and methodologies of modern horticultural industries. Emphasis on greenhouses, storage facilities, irrigation, nutrition, environmental control, weed, disease, and pest control. Lecture 2 hours per week, Laboratory 2 hours per week. Prerequisite, HORT 2253 or PSSC 1303 or BIO 1503. Demand.
- HORT 2273. Vegetable Crops Production** Growth habits, soil and climate requirements, varietal characteristics, and pests of vegetable crops. Prerequisite, HORT 2253. Demand.
- HORT 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 BIO 1503 or HORT 2253. Demand.
- HORT 3263. Pomology** Fruit production, fruiting habits, establishment and management of deciduous orchards. Lecture two hours, laboratory two hours per week. Prerequisite, HORT 2253. Demand.
- HORT 3273. Turf Management** The turf industry, characteristics, adaptation, and establishment of the grasses. Prerequisites, PSSC 2813, PSSC 2811, and HORT 2253. Demand.

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- HORT 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 BIO 1503 or HORT 2253. Demand.
- HORT 3293. Landscape Plant Materials** Trees and shrubs and their uses in landscape. Lecture two hours, laboratory two hours per week. Fall, odd.
- HORT 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. Demand.
- HORT 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.
- HORT 4273. Nursery Management** Principles and practices involved in the production, management, and marketing of field grown and container grown nursery plants. Lecture two hours, laboratory two hours per week. Prerequisites, HORT 2253 and HORT 4323. Demand.
- HORT 4283. Landscape Design** Continuation of HORT 3293, the organization of outdoor spaces in relation to architecture and general environment. Lecture two hours, laboratory two hours per week. Prerequisite, HORT 3293. Demand.
- HORT 429V. Special Problems in Horticulture** For students of senior standing. Approval of instructor and dean necessary. Fall, Spring, Summer.
- HORT 4323. Plant Propagation** Principles, practices, and methods employed in the propagation of plants. Prerequisite, HORT 2253. Demand.

Metallurgy (MET)

- MET 2003. Introduction to Metallurgy** Provide basic understanding of the history of metallurgy development, ores minerals, metallurgical terms, furnaces, iron, steel, metals, alloys and phase diagrams, heat treatment, hardening, properties, microstructures, etc. Fall, Spring, Summer.
- MET 3003. Heat Treatment of Industrial Alloys** Behavior of different metals and alloys at different temperatures will be highlighted. Properties of different industrial alloys and their microstructures at different heat treating conditions and industry alloy selection and making will be discussed. Prerequisites, MET 2003. Fall, Spring, Summer.

Plant and Soil Science (PSSC)

- PSSC 1301. Plant Science Laboratory** Introduction to agronomic and horticultural concepts related to crop anatomy, growth and development, physiology, and pest identification and management. Spring.
- PSSC 1303. 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.
- PSSC 2323. Agricultural Chemicals** Introduction to the types and uses of agricultural pesticides, fungicides, and herbicides. Application technology, calibration, safety issues, and pest management tactics are examined. Prerequisites, CHEM 1013 and CHEM 1011. Demand.

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- PSSC 2803. Field Crops** Field crops, types and varieties. Lecture two hours, laboratory two hours per week. Demand.
- PSSC 2811. Soils Laboratory** Corequisite or prerequisite, PSSC 2813. Fall.
- PSSC 2813. Soils** Origin, classification, physical and chemical properties of soil and environmental considerations. Prerequisite, CHEM 1013 and CHEM 1011. Fall.
- PSSC 3313. Plant Disease Management** Introduction to management of plant diseases. Major concepts include genetic, cultural, and biological controls as related to management of plant systems. Self study course utilizing computer technology, seminars, and laboratory exercises. Prerequisites, PSSC 1303. Spring.
- PSSC 3323. Weeds and Weed Control** Identification and pest management of weeds in agronomic, horticultural, and urban systems. Survey of herbicides, their chemistry, toxicology, modes of action, uses, and environmental impact. Lecture two hours and laboratory two hours per week. Prerequisites, CHEM 1013 and PSSC 1303. Spring.
- PSSC 3333. Plant Breeding** History of plant improvement, methods of plant breeding, and the basic application of these methods to various agronomic and horticultural crops. Demand.
- PSSC 3503. Agriculture Spatial Technologies I** Basic understanding and utilization of data collection and assessment using global position system receivers, direct and remote sensing, and geographic information system software related to crop production and nutrient management. Prerequisite, PSSC 2813. Fall.
- PSSC 3513. Agriculture Spatial Technologies II** The course will concentrate on a study of the electromagnetic properties of earth objects, vegetation, soils, water, and, the principles and operations of different sensors used to measure this energy. Spring.
- PSSC 3802. Pasture and Forage Crops** Introduction to important forage and pasture crops in the mid south region. Discussions will include cropping systems, plant growth and development, physiology, and environmental considerations. Prerequisite, PSSC 1303. Fall, odd.
- PSSC 4301. Seminar** Reports on recent developments in the plant sciences. Spring, odd.
- PSSC 4313. Plant Growth and Development** Auxins, gibberellins, and various other regulators of plant growth, also phenomena such as flowering and dormancy. Prerequisites, CHEM 1033 and CHEM 1031, PSSC 2803, HORT 2253 and PSSC 1303. Fall.
- PSSC 4342. Seed Analysis and Processing** Techniques and principles of seed analysis and grading, methods of producing and processing quality seeds and seed stocks. Demand.
- PSSC 4804. Principles of Crop Production** Introduction to agronomic cropping systems which includes production systems, concepts related to crop selection and genetics, establishment and management of the crop, and harvest management. Environmental issues related to crop production and sustainability are also evaluated. Prerequisites, PSSC 1303 and PSSC 2813. Spring, Odd.
- PSSC 4813. Soil Fertility** Principles involved in maintaining and increasing fertility of soil. Prerequisite, PSSC 2813, CHEM 1013, and CHEM 1011. Spring, even.
- PSSC 4822. Environmental Factors Affecting Plant Growth** Affect of environmental factors on growth of important crop species. Primary emphasis will be on water utilization, solar irradiance, and temperature on plant development. Methods of measurement of environmental factors will be included. Prerequisites, PSSC 1303. Demand.

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- PSSC 4833. Soil Classification** Development and classification of soils, including identification and mapping. Lecture two hours, laboratory two hours per week. Prerequisite, PSSC 2813. Demand.
- PSSC 4842. Fertilizers** Commercial fertilizers in relation to soil fertility. Prerequisite, PSSC 2813. Spring, even.
- PSSC 4853. Soil and Water Conservation** Properties of soil which affect erosion and water infiltration, with practical methods of holding water and soil. Prerequisite, PSSC 2813. Spring, odd.
- PSSC 4863. Soil Chemistry** Chemical properties of soils and determination of several elements. Lecture two hours, laboratory two hours per week. Prerequisite, PSSC 2813, CHEM 1013, and CHEM 1011. Demand.
- PSSC 4873. Soil Physics** Soil physical properties and measurements, with emphasis on the relation to plant growth. Lecture two hours, laboratory two hours per week. Prerequisite, PSSC 2813. Fall, even.
- PSSC 4883. Soil Microbiology** Soil organic matter in relation to soil organisms. Prerequisite, PSSC 2813. Demand.
- PSSC 4893. Soil Quality Assessment and Interpretation** A study of the indicators of soil quality, documentation and measurement of soil quality, interpretations of soil quality, impacts and effects of management of soil quality, and the role of conservation planning in improving soil quality. Prerequisite, PSSC 2813. Demand.
- PSSC 489V. Special Problems in Plant and Soil Science** For students of senior standing to work on special problems. Approval of instructor and dean necessary. Fall, Spring, Summer.

Technology (TECH)

- TECH 1013. Networking Essentials Cisco I** The study of router hardware and software. Topics include the OSI model, data link and network layer devices, IP addresses, subnet masking, cabling, topologies, writing closets, basic electrical and electronic issues in networks, and TCP and IP network layer protocols. Prerequisite, Basic computer knowledge. Fall.
- TECH 1023. Router Technologies Cisco II** The second course in the study of router hardware and software. Topics include TCP and IP transport layer protocols, flow control, IOS, router configuration, IP address configuration, RIP and IGRP routing protocols, IP traffic filtering, and routing problem solving. Prerequisite, TECH 1013. Spring.
- TECH 1423. Beginning Solid Modeling CADKEY I** CADKEY introduces the powerful tools to be used in 2dimensional, 2D, drafting, 3D generation as well as solid modeling applications. This integration called Hybrid Solid Modeling, is the combination of tools. This computer application in graphic techniques is software specific to technology as well as engineering design student, using design intent logic. Prerequisite, TECH 2453. Fall.
- TECH 189V. Occupational Studies Credit** Through this course students with technical credit from an accredited institution may earn college credit. Course may be repeated. No more than 25 percent of the degree may be satisfied with this course and TECH 372V. 1 to 9 hours. Demand.
- TECH 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.

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TECH 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.

TECH 2053. Building Scalable Networks Cisco V Topics include, overview of scalable internetworks, managing traffic and access, managing IP traffic, extending IP addressings using VLMSs, configuring OSPF in single area, interconnecting multiple OSPF areas, configuring enhanced IGRP, optimizing routing update operation, and configuring BGP. Prerequisite, TECH 2043. Fall.

TECH 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.

TECH 2453. Technology Design Solid Works I Drawing and detailing with Solid-Works, a design automation software package used to produce parts, assemblies and drawing. Fall.

TECH 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.

TECH 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.

TECH 2883. Introduction to Quality Control A fundamental course in quality control. Content deals with universal principles of quality assurance in a technical environment. Topics include mechanics of a quality system, planning a quality information system, quality practices, system elements and controls, and definitions of quality. Demand.

TECH 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.

TECH 3413. AutoCAD Inventor This is a beginning level 1 course in CAD. This course is designed to demonstrate how AutoCAD is used in model parametric space. This course will only deal with 2d mechanical, electrical and civil aspects of CAD. Prerequisite, TECH 2453. Spring.

TECH 3423. Intermediate Solid Modeling CADKEY II Continuation of Beginning Solid Modeling CADKEY I. Prerequisite, TECH 1423. Spring.

TECH 3433. AutoCAD 3D Modeling This is an Advance level II course in CAD. This course is designed to demonstrate how to manage 3D space, how to make 3D wire frame, surface, and solid models, how to modify them, and how to display them. Prerequisite, TECH 3413. Fall.

TECH 3453. Advanced Technology Design Solid Works II Continuation of Technology Design, SolidWorks I. Prerequisite, TECH 2453. Spring.

TECH 3463. Advanced Pro ENGINEER A study of advanced techniques and workarounds type of parent and child relation using constraints. Prerequisites, ME 2502 and TECH 3403. Demand.

TECH 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

TECH 3713. Fiscal Aspects An introduction to fiscal structures and problems encountered in the technically oriented enterprise. Spring, odd.

TECH 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.

TECH 3753. Legal Aspects An introduction to the types of legal problems encountered in the technically oriented enterprise. Spring, even.

TECH 3773. Statistics Basic concepts and methods of statistics in a technical environment, including descriptive statistics, significant tests, estimation, sampling, and correlation. Demand.

TECH 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.

TECH 3813. Programmable Logic Control Introduction to programmable logic controllers. Topics will include programming basics, instruction sets, maintenance and trouble shooting, program editing and the use of EEPROM memory modules. Prerequisite, TECH 3803. Spring.

TECH 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.

TECH 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.

TECH 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.

TECH 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.

TECH 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.

TECH 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.

TECH 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.

TECH 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

- TECH 4703. Experiential Learning Practicum** This capstone course provides students with experiential learning related to their emphasis area, as an on the job position within a company or other approved location. Each Practicum will involve 10 to 12 specific learning experience objectives. Prerequisites, Approval of faculty supervisor. Restricted to majors in the Technology majors. Demand.
- TECH 4783. Manufacturing** Concepts and philosophies of manufacturing technology and their roles in factories. Prerequisite, Senior Standing in Technology. Spring.
- TECH 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.
- TECH 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.
- TECH 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.
- TECH 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.
- TECH 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.
- TECH 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.
- TECH 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.
- TECH 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.
- TECH 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 online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

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)

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

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VOED 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.

VOED 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.

VOED 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.

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

VOED 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

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.

BUSN 1003. First Year Experience Business 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.

DEPARTMENT OF ACCOUNTING AND LAW

Accounting (ACCT)

ACCT 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.

ACCT 2033. Introduction to Financial Accounting Introduction to accounting and the accounting cycle. Basic accounting and reporting for merchandising and service oriented business organizations. Primary emphasis is on accounting principles applicable to measuring assets, liabilities, owners equity and income. Special measurement problems for partnerships and corporations. Fall, Spring, Summer.

ACCT 2133. Introduction to Managerial Accounting The course covers basic accounting and reporting for manufacturing companies. The course is also devoted to managerial uses of accounting data for the decision making function and to special accounting reports. Prerequisite, ACCT 2033 with a C or better. Fall, Spring, Summer.

ACCT 3003. Intermediate Accounting I An in depth study of accounting statements, the accounting process, inventory valuation procedures, operational assets, and investments. Fall, Spring, Summer.

ACCT 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.

ACCT 3053. Cost Managerial Accounting Accounting issues from the viewpoint of the manager. Examination of costing techniques, cost behavior, cost volume profit relationships, and budgeting. Emphasis is on use of relevant information in decision making for managers. Prerequisite, ACCT 2133 with a C or better. Fall, Summer.

ACCT 3153. Advanced Topics in Cost Accounting Continued examination of accounting issues from the viewpoint of the manager. Emphasis is on current issues relevant to cost and managerial accounting. Prerequisite, ACCT 3053. Demand.

ACCT 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. Fall, Spring.

ACCT 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.

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

ACCT 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.

ACCT 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. Demand.

ACCT 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. Fall, Summer.

ACCT 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. Fall.

ACCT 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. Spring.

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

ACCT 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)

- 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.
- LAW 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. Demand.
- LAW 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. Demand.
- LAW 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. Spring.

DEPARTMENT OF COMPUTER AND INFORMATION TECHNOLOGY

Computer Information Technology (CIT)

- 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 word processing, spreadsheets, databases, and presentation graphics. Fall, Spring.
- CIT 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.
- CIT 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.
- CIT 2413. Word Processing I** Introduction to word processing concepts and applications. Prerequisite, Ability to keyboard. Fall.
- CIT 2523. Telecommunications and Networking Essentials** This course will examine basic networking fundamentals. These include networking media, connectivity, devices, telecommunications protocols, and different networking models. Spring.
- CIT 2533. Internet, Intranet, and Email Applications** Students will develop technology skills and research strategies using the Internet, Intranet, and Email. Basic computer competency recommended. Demand.
- CIT 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. Summer.
- CIT 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.

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- CIT 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.
- CIT 3253. Principles of RPG Programming** Programming in RPG, with emphasis on business management-type problems in environments involving midrange computers, such as the IBM AS400. Prerequisites: C or better grades in CIT 1503 or CS 1043, and CIT 2033, CS 1114 or CS 2114. Demand.
- CIT 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.
- CIT 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 1114 with a C or better. Spring.
- CIT 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.
- CIT 3403. Database Management** Discussed 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.
- CIT 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. Demand.
- CIT 3463. Multimedia Technology** Introduces the student to various electronic means of presenting information of professional design and quality using presentation software. Spring.
- CIT 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.
- CIT 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.
- CIT 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.
- CIT 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.
- CIT 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 previous criminology courses or experience for FOSC majors before enrolling. Prerequisite, CIT 1503 or CS 1043. Fall.

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- CIT 4053. 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. Demand.
- CIT 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.
- CIT 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.
- CIT 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. Fall.
- CIT 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.
- CIT 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.
- CIT 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.
- CIT 4533. Word Processing II** Advanced word processing concepts and applications. Prerequisite, CIT 2413 or consent of instructor. Spring, Demand.
- CIT 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.
- CIT 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.
- CIT 4613. Operations Planning and Control** Procedures and information technologies related to operations planning and control, quality, inventory, maintenance, and product planning systems. Prerequisite, CIT 3523. Demand.
- CIT 4623. Computer Security** Discusses the primary topics of computer security needed by IT professionals in both commercial and military installations. Includes access control, cryptography, continuity planning, physical security, and the overall management of security issues. Prerequisite, CIT 3013. Spring.
- CIT 4653. Automatic Data Capture** Methods, technologies, systems, and standards used in supply chain information systems and e-business for automatically identifying objects, and collecting and transferring data. Technologies such as bar coding, RFID, smart cards, magnetic striping, biometrics, GPS, real time locating, and voice data entry, as well as their business applications are addressed. Fall.

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- CIT 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.
- CIT 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.
- CIT 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.
- CIT 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)

BUED 1000. METHODS AND INTERNSHIP INFO IMPORTANT INFORMATION EDBU 4533 METHODS AND MATERIALS IN TEACHING BUSINESS TECHNOLOGY and TIBU 4825 BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL, for BS Students, TIBU 4826 BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL, for Program of Study Students ONLY, and are located at other locations on the Class Schedule Search engine. Please follow the directions below for each course to obtain the correct location for each educational course.

EDBU 4533, CRN 60810, METHODS AND MATERIALS IN TEACHING BUSINESS TECHNOLOGY

1. Go to Class Schedule Search.
2. Select Method and Mat Teach BUED Voc.
3. Click on Class Search, METHODS AND MATERIALS IN TEACHING BUSINESS TECHNOLOGY will appear.

BS students ONLY

TIBU 4826 001, CRN 63491, BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL

You will receive an email from the Professional Education Program, PEP, office issuing you a permit allowing you to register for this class.

Program of Study Students ONLY

TIBU 4825 001, CRN 61662, BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL

You will receive an email from the Professional Education Program, PEP, office issuing you a permit allowing you to register for this class.

Program of Study Students ONLY ELCI 4013 001 CURRICULUM AND ASSESSMENT INSTRUCTIONAL THEORY AND PRACTICE, to be taken during Teacher Internship

1. Go to Class Schedule Search
2. Select Educational Leadership Curriculum
3. Click on Class Search, CURRICULUM AND ASSESSMENT INSTRUCTIONAL THEORY AND PRACTICE will appear.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

- 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.
- BUED 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.
- BUED 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.

Serials Teaching BUED VOC (EDBU)

- EDBU 4533. Methods and Materials in Teaching Business Technology** Study of the role and scope of the vocational business education teacher, professional organizations, professional ethics, federal involvement, and professional literature. Emphasis on the assessment of student competencies, competency based programs, resources, facilities, and curriculum development. Selection and practice in teaching techniques and strategies. Must be admitted to the Teacher Education Program. Fall.

Business Systems (BSYS)

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

Economic Education (ECED)

- 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.
- ECED 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.
- ECED 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.
- ECED 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.

Economics (ECON)

- 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.

- ECON 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.

- ECON 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.

- ECON 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.

- ECON 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.

- ECON 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.

- ECON 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.

- ECON 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.

- ECON 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.

- ECON 3363. Labor Economics** The economics of labor markets, factors affecting economy demand for labor or 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.

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

- ECON 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.

- ECON 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.

- ECON 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.

- ECON 4313. History of Economic Thought** Brief review of the doctrines of economic thinkers from early time through Marshall. Broader study of modern writers and theories. Prerequisites, ECON 2313 and 2323, or ECON 2333. Fall.
- ECON 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.
- ECON 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 tradeoffs associated with public regulation of electric, natural gas, cable TV, and telecommunications firms. Prerequisite, ECON 2313, 2323. Spring, even.
- ECON 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.
- ECON 4353. Economic Development** Primary concern is with theories and methods of economic development for developing countries. Agriculture, population, investment, natural resources, international relations and economic aid are the main topics of the course. Prerequisites, ECON 2313 and 2323. Fall, odd.
- ECON 4363. Global Environmental Policies** This course examines the impact of human activities on ecosystems and vice versa, as well as the use of markets to manage the environment. Topics include environmental services, ecotechnology, pollution control, valuation, economics of climate change and biotechnology. Fall.
- ECON 468V. Special Problems in Economics** Individual problems in economics arranged in consultation with the instructor. Must be approved by department chair. Fall, Spring, Summer.

Finance (FIN)

- 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 2133 or 2023. Fall, Spring, Summer.
- FIN 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.
- FIN 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.
- FIN 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.
- FIN 3813. International Financial Management and Banking** Study of financial concepts and issues in banking as they relate to business decisions in a global economy.

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- FIN 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.
- FIN 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.
- FIN 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.
- FIN 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.
- FIN 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.
- FIN 4773. Advanced 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.
- FIN 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.
- FIN 489V. Special Problems in Finance** Individual problems in finance arranged in consultation with the instructor. Must be approved by department chair. Fall, Spring, Summer.

Real Estate and Insurance (REI)

- REI 3413. Real Estate Practice** Introductory study of real estate business, basic principles of real property ownership, utilization, and transfer, mortgage financing, brokerage, management, valuation, and subdividing. Fall, Spring.
- REI 3423. Real Estate Brokerage and Management** Organization and conduct of real estate brokerage and managerial business and professional activities. Social, economic, legal, and ethical responsibilities of the real estate broker and real property manager. Demand.
- REI 3513. Risk and Insurance** Introductory study of the insurance business, risk theory, the insurance mechanism, fundamental legal principles and insurance contract analysis. Emphasis on the insurance needs of a typical American family. Fall, Spring, Summer.
- REI 4413. Legal Aspects of Real Estate** Principal areas of real estate law including those applicable to real estate brokers within Arkansas. Demand.

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- REI 4423. Real Estate Finance** Instruments, techniques, and institutions of real estate finance, sources of funds, mortgage risk analysis, emphasis on typical policies and procedures used in financing of residential, industrial, and commercial properties. Spring.
- REI 4433. Real Estate Appraising** Factors influencing real property values, application of three approaches in determining the value of residential, commercial, and industrial properties. Fall.
- REI 4443. Appraising and Investment** 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.
- REI 4513. Property and Liability Insurance** Analysis of risk theory, property and liability risks, and the economic functions of property insurance. The course treats traditional and modern theories of risk, property and liability coverages, and functional insurance areas. Spring.
- REI 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.
- REI 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.
- REI 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 MANAGEMENT AND MARKETING

Business Communications (BCOM)

- BCOM 2563. Business Communication** Theories and principles of written, interpersonal, and oral communication. Prerequisite, ENG 1013. Fall, Spring, Summer.
- BCOM 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.

International Business (IB)

- 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.

- IB 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.
- IB 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.
- IB 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.
- IB 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.
- IB 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.
- IB 4283. International Exchange** This class is for students studying abroad for a semester on Exchange. It is only a credit no credit course with grades being transferred from the host institution upon completion of the semester. Demand.

Management (MGMT)

- 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.
- MGMT 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.
- MGMT 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.
- MGMT 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 3143. Fall, Demand.
- MGMT 3173. Special Topics in Human Resources** Study of selected topics in human resource management with special emphasis on issues of current importance in the field. Topic areas such as employment selection, development, negotiation, and diversity will be covered. Prerequisite, MGMT 3153. Demand.

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

MGMT 3193. Social Impact Management Examines the interdependence of business and society. Students will develop skills to manage social impacts and divergent stakeholder perspectives. Prerequisite, MGMT 3153. Spring.

MGMT 3613. Leadership Leadership processes and application at the organization, group, and individual levels. Emphasis on team activities. Prerequisite, MGMT 3123 or MGMT 3153. Fall, Summer.

MGMT 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 or MGMT 3123. Summer.

MGMT 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. Fall.

MGMT 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 multi disciplinary skills and be able to integrate these skills in the management assistance provided the small business client. Prerequisite, Written approval of SBI Director. Demand.

MGMT 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 2133, and MGMT 3153. Fall.

MGMT 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.

MGMT 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.

MGMT 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.

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

MGMT 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.

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MGMT 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)

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.

MKTG 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.

MKTG 3023. Applied Research Systematic gathering, organizing, and analyzing data to provide managers with information they need to make better decisions. Emphasis is placed on the use of secondary data. Report writing and presentation are stressed. Special course fees may apply. Prerequisites, ECON 2113 and BCOM 2563. Fall, Spring, Demand.

MKTG 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.

MKTG 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.

MKTG 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. Spring, Demand.

MKTG 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.

MKTG 3163. Supply Chain Management Aspects of moving raw materials and finished goods through the firms 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.

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

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MKTG 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. Prerequisite, MKTG 3013. Fall, Spring, Demand.

MKTG 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.

MKTG 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.

MKTG 4103. Concepts of Business Logistics This course addresses the concepts, principles, and methods used to plan, organize, and manage logistics activities in the supply chain. Prerequisite, MKTG 3163. Fall.

MKTG 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.

MKTG 4123. Organizational Purchasing This course addresses the strategic and operational aspects of purchasing functions in private and public organizations. Emphasis will be placed on the development and evaluation of suppliers in an organizational setting. Prerequisite, MKTG 3013. Spring.

MKTG 4133. International Logistics and Outsourcing Systematic review of concepts involved in supply chain outsourcing, with emphasis on the selection of service suppliers, the organized movement of goods between firms in more than one nation, and the unique aspects of international logistic processes. Prerequisites, MKTG 3163 or MKTG 4113 or MGMT 4123 or permission of Instructor. Fall.

MKTG 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.

MKTG 4223. Marketing Management Evaluation and analysis of marketing strategies in competitive situations. Course examines various price, product, distribution, and promotion strategies that are essential to firms. Focus on the integration and assessment of these elements in developing and adapting a successful marketing strategy. Prerequisite, MKTG 3013. Fall, Spring, Demand.

MKTG 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.

MKTG 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.

MKTG 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.

MKTG 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.

MKTG 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.

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 482. Business Teaching Internship in the Secondary school
12 semester hours. Full semester teaching internship. Fall, Spring.

COLLEGE OF COMMUNICATIONS

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 JOURNALISM

Graphic Communications (GCOM)

GCOM 1613. Graphic Communication Systems An exploration of the industrial materials and processes utilized for graphic preparation and reproduction including lithography, gravure, flexography, screen printing, and nonimpact printing processes. Classroom, industrial visitation and laboratory format. Fall, Spring.

GCOM 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.

GCOM 2673. Digital Prepress Workflow and File Creation Comprehensive overview of the major prepublishing workflow elements and the options or their interrelationships. Fall.

GCOM 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.

GCOM 3603. Graphic Production Systems 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.

GCOM 4613. Post Press and Distribution Management Study of functions occurring after the material has been imaged, including case, mechanical and perfect binding and finishing operations. Additional components include web finishing, selective binding, ink jet imaging, and postal regulations and distribution. Prerequisite, GCOM 1613. Spring.

GCOM 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.

GCOM 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.

GCOM 4683. Graphic Publication Production Opportunity for students to plan production, determine related costs, coordinate and perform production, control quality and develop a portfolio of a complete production experience. Lecture, industry visitations and laboratory format. Prerequisites, GCOM 1613 and GCOM 3803. Fall.

GCOM 4783. Electronic Innovations in Graphic Communications Course designed to cover the concepts of digital imagery and output, on demand printing, pagination, multimedia production, databases, interactive design, electronic sales and customer relations. Classroom, laboratory and industry visitation experiences. Prerequisites, GCOM 1613 and RTV 4363. Permission of instructor required. Fall, odd.

GCOM 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.

Journalism (JOUR)

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

JOUR 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 2003. Fall, Spring, Summer.

JOUR 2010. News Reporting Laboratory Laboratory for News Reporting. Must be taken concurrently with JOUR 2013. Fall, Spring.

JOUR 2013. News Reporting Techniques of news gathering, with practical experience in interviewing and writing for publication. Requires three hours of laboratory work per week. Prerequisite, C or better in JOUR 2003. Fall, Spring.

JOUR 3001. Contemporary Events and the Mass Media Weekly review of news events and the mass medias coverage of them. Fall, Spring.

JOUR 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.

JOUR 3013. Principles of Public Relations Nature and theoretical foundation of public relations, its role in society, practitioners and dynamics of the process. Fall, Spring, Summer.

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

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

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

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

JOUR 3060. News Editing Laboratory Laboratory for News Editing. Must be taken concurrently with JOUR 3063. Fall.

JOUR 3063. News Editing Editing and rewriting news stories, writing headlines and outlines, legal and ethical issues for editors, and the basic principles of news design. Prerequisite, JOUR 2013. Fall.

JOUR 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.

JOUR 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.

JOUR 3090. Photojournalism Laboratory Laboratory for Photojournalism. Must be taken concurrently with JOUR 3093. Spring.

JOUR 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.

JOUR 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.

JOUR 3373. Introduction to Internet Communications Introductory course in the use of the internet as a communication delivery system. The course addresses Internet history, its development and future applications for communications. Basic computer competency required. Cross listed as RTV 3373. Fall, Spring.

JOUR 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.

- JOUR 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.
- JOUR 4010. Advanced Photojournalism Laboratory** Laboratory for Advanced Photojournalism. Must be taken concurrently with JOUR 4013. Fall.
- JOUR 4013. Advanced Photojournalism** Digital photojournalism with emphasis on ethics and role of photojournalist in society. Students are expected to prepare a portfolio of work up on completion of the course. Six hours of laboratory work per week. Prerequisite, JOUR 3093. Special course fee, \$25.00. Fall.
- JOUR 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.
- JOUR 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.
- JOUR 4050. Public Affairs Reporting Laboratory** Laboratory for Public Affairs Reporting. Must be taken concurrently with JOUR 4053. Spring.
- JOUR 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.
- JOUR 4063. Internship** Supervised work for a newspaper or other suitable publication. Prerequisite, consent of the department chair. Summer.
- JOUR 4073. Communications Law and Ethics** Legal and ethical limitations and privileges affecting the mass media. Cross listed as RTV 4073. Fall, Spring, Summer.
- JOUR 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.
- JOUR 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. Fall, Spring.
- JOUR 4323. Race, Gender and Media** Survey of the interface between Americans of color, women and the mass media in the United States. Fall.
- JOUR 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.
- JOUR 488V. Special Problems in Journalism** Prerequisite, approval of department chair and faculty. Fall, Spring, Summer.

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Public Relations (PR)

- 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.
- PR 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, Spring.
- PR 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.
- PR 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.
- PR 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.
- PR 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, Spring.

DEPARTMENT OF RADIO-TELEVISION

Radio-Television (RTV)

- 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. Cross listed as JOUR 1003. Fall, Spring, Summer.
- RTV 2003. News Writing** Basic news writing for print, broadcast, and Internet. Course includes attention to news style and grammar. Prerequisite, C or better in ENG 1003. Word processing skills required. Prerequisite, C or better in ENG 1003. Cross listed as JOUR 2003. Fall, Spring, Summer.
- RTV 2024. Audio Production with Lab** Foundations of sound, audio theory, and audio equipment, planning audio aspects of radio and television broadcasts and Webcasts, analog and digital recording, editing and post production techniques involving voice, music, and sound effects. Fall, Spring.
- RTV 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. Prerequisite, C or better in RTV 2003. Word processing skills required. Fall, Spring.
- RTV 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. Word processing skills required.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

RTV 3024. Video Production with Lab A basic course in studio and field production for video and television. Emphasis is placed on techniques for short or long form production, studio and field equipment operation, and production. Lab TBA. Fall, Spring.

RTV 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.

RTV 3103. Electronic News Gathering Advanced reporting techniques, story development process and tools needed to interview and write, report and edit video news stories. Stories produced will be used to enhance newscast development. Prerequisite, C or better in RTV 3003, RTV 3024, and RTV 3034, or consent of instructor. Fall, Spring.

RTV 3303. The Development of the Motion Picture A study of the development of motion picture theory, technology, and technique. Demand.

RTV 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. Fall, Summer.

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

RTV 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 JOUR 3363. Fall, Spring.

RTV 3373. Introduction to Internet Communications Introductory course in the use of the internet as a communication delivery system. The course addresses Internet history, its development and future applications for communications. Basic computer competency required. Cross listed as JOUR 3373. Fall, Spring.

RTV 3673. Seminar in Digital Media and Design A study of the development and impact of digital media. Cross listed as ART 3673. Spring.

RTV 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 with in the local community for the electronic media. Prerequisite, RTV 3003. Spring.

RTV 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. Demand.

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

RTV 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. Fall.

RTV 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, Spring.

RTV 4320. News Production and Performance Laboratory Laboratory section for News Production and Performance. Must be taken concurrently with RTV 4323. Fall, Spring.

RTV 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.

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

RTV 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 problems, 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.

RTV 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. Fall, Spring.

RTV 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. Fall, Spring.

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

RTV 4473. Advanced 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.

RTV 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. Fall.

RTV 488V. Special Problems in Electronic Media Prerequisite, approval of Department Chairman and faculty. Fall, Spring, Summer.

DEPARTMENT OF COMMUNICATION STUDIES

Methods and Materials Teaching Speech Communications and Theatre (EDSP)

EDSP 4543. Methods and Materials for Teaching Speech Communications and Theatre 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.

Communication Studies (SCOM)

SCOM 1203. Oral Communication The theory and practice of communication in interpersonal, small groups, and public speaking contexts, emphasizing proficiency in message organization, deliver, and critical thinking. Prerequisite for all other communication studies courses, except SCOM 3203. Fall, Spring, Summer.

SCOM 1211. Intercollegiate Debate Study and practice of intercollegiate debate. May be repeated for credit. Demand.

SCOM 2203. Introduction to Human Communication An introduction to and an overview of speech communication, including concepts and applications. Prerequisite, SCOM 1203 Oral Communication. Demand.

SCOM 2233. Oral Interpretation Theory and practice of reading aloud, with emphasis on the emotional and intellectual content of literature. Fall.

SCOM 2243. Principles of Argumentation Principles of logical reasoning used in advocacy, analysis, use of evidence, inductive and deductive reasoning. Spring, even.

SCOM 2253. Introduction to Health Communication Communication in healthcare settings. Major topics include patient provider interaction, information dissemination, cultural concerns, ethical issues, and social support. Fall.

SCOM 2373. Introduction to Interpersonal Communication A study of interpersonal communication. Prerequisite, SCOM 1203. Spring.

SCOM 3203. Business and Professional Communication Speech communication needs of business and professional people. Fall, Spring.

SCOM 3211. Intercollegiate Debate Study and practice of intercollegiate debate. May be repeated for credit. Demand.

SCOM 3233. Advanced Oral Interpretation Continuation of SCOM 2233. Spring.

SCOM 3243. Principles of Persuasion Theory and practice of persuasion as an instrument in motivating human conduct. Fall.

SCOM 3253. Principles of Listening Principles of listening in the communication process, emphasis on listening improvement. Fall, even.

SCOM 3363. Human Communication Research Methods Study of both qualitative and quantitative methods used in communication research. Spring.

SCOM 3373. Gender Communication Study of the interrelationship between communication and gender in various contexts. Spring, odd.

SCOM 4203. Small Group Communication Group and conference techniques for classroom, business, and professional situations. Spring, Summer.

SCOM 4233. Storytelling for Children Principles of storytelling, oral reports, choral reading, and listening improvement. Summer.

SCOM 4243. Interpersonal Communication Emphasis on increasing students capacity for openness, sensitivity, and objective appraisal. Fall, Summer.

SCOM 4253. Intercultural Communication Identification of barriers and breakdowns to communication among cultures. Spring.

SCOM 4263. Organizational Communication Dynamics and theories of communication within an organization. Spring, even.

SCOM 428V. Internship in Communication Studies Combines relevant work experience with classroom theory. Demand.

SCOM 431V. Special Problem: Varying Topics Prerequisite, permission of instructor. May be repeated twice with different topics. Demand.

SCOM 4323. Communication in Personal Relationships The course covers interpersonal communication in the context of personal relationships, such as romantic relationships, friendships, professional relationships, and family relationships. Fall, odd.

SCOM 4373. Conflict Resolution Conflict as a communication variable created through interpersonal interaction in dyads, small groups, families, and organizations. Dual listed SCOM 5373. Summer.

SCOM 4403. Seminar in Health Communication Study of the major cultural, interpersonal, and public communication issues affecting health communication. Spring, odd.

Teaching Internship (TISP)

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.

COLLEGE OF EDUCATION

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

DEPT. OF EDUCATIONAL LEADERSHIP, CURRICULUM AND SPECIAL EDUCATION

Curriculum and Instruction (ELCI)

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.

ELCI 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.

ELCI 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.

ELCI 480V. Special Topics Workshop A designed series of learning experiences to address the specific needs of inservice teachers, administrators, or special service personnel. May not be used to satisfy any degree requirements. May be repeated for credit. Must be admitted to the Teacher Education Program. Demand.

Special Education (ELSE)

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. Demand.

ELSE 3023. Characteristics of Individuals with Disabilities In depth study designed to develop knowledge of the characteristics of individuals with disabilities and the influence of these characteristic on the learning potential of these students. Must be admitted to the Teacher Education Program. Summer.

ELSE 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. Must have passed writing portion of Praxis 1. Fall, Spring, Summer.

ELSE 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. This course is dual listed ELSE 5033. Prerequisite, ELSE 3643 or equivalent. Spring, Summer.

ELSE 4053. Educational Procedures for Individuals with Mild Disabilities
A study of models for the planning and delivering of instruction to students with disabilities who require an individualized general curriculum. Includes techniques and materials for teaching reading, math and writing. Must be admitted to the Teacher Education Program. Dual listed ELSE 6053. Prerequisites, ELSE 3643 or equivalent. Spring, Summer.

ELSE 4083. Collaboration for Special Education Service Delivery A study of the team planning process, working with families, and service delivery options for special education, including special class placement, consultation, and collaborative teaching. This course is dual listed ELSE 5083. Prerequisites, ELSE 3643 or equivalent and entrance in the Teacher Education Program. Summer, Fall.

ELSE 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. Demand.

ELSE 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. Demand.

ELSE 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. This course is dual listed ELSE 5633. Prerequisite, ELSE 3643 or equivalent. Fall, Summer.

ELSE 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. Demand.

ELSE 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.

ELSE 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. Summer.

ELSE 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.

ELSE 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.

ELSE 4743. Assessment of Young Child with Exceptionalities A study of evaluative and diagnostic instruments and procedures used with young exceptional children from birth to 8 years of age. This course is dual listed ELSE 5743. Prerequisites, ELSE 3643 or equivalent and entrance into the Teacher Education Program. ELSE 3643 may be taken concurrently. Fall.

ELSE 4753. Methods for Working with Young Children with Exceptionalities The purpose of this course is to provide teachers with knowledge of current theories, best practices, and strategies relevant to working with children from birth to age 8 who have disabilities. This course is dual listed ELSE 5753. Prerequisites, ELSE 3643 and ELSE 4743 and entrance into the Teacher Education Program. Spring.

ELSE 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)

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.

AT 2203. Emergency Management in Athletic Training The study and application of emergency management techniques in dealing with trauma resulting from injuries and illnesses suffered by an athletic population. Corequisite, AT 2201. Spring.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 3733. Advanced Assessment of Athletic Injuries Advanced course designed to develop further knowledge and skills related to the recognition, assessment, treatment, and appropriate medical referral of athletic injuries and illnesses. Prerequisites, AT 2731 and AT 2733. Corequisite, AT 3731. Fall.

AT 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 3743. Spring.

AT 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.

AT 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.

AT 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, PHYS 2054. Corequisite, AT 3831. Spring.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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)

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.

DRED 4273. Advanced Driver Education Driver and traffic education with emphasis on advanced instruction and research in driver education. Prerequisite, DRED 4263.

Method and Material Teaching Physical Education (EDPE)

EDPE 4583. Foundations of Exercise Science 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.

Exercise Science (ES)

ES 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.

ES 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.

ES 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 3543. Fall, Spring.

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

ES 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. Corequisite, ES 3543 and 3553. Fall.

ES 3713. Cardiovascular Physiology This course is designed to introduce the student to the study of cardiovascular physiology with an emphasis on normal versus abnormal function. It provides an in depth study of the cardiovascular system and its various responses to acute and chronic exercise. Prerequisites, BIO, 2203, BIO 2201, BIO 2223, BIO 2221, and ES 3553. Spring.

ES 3743. Research and Statistical Methods in Exercise Science Fundamental aspects of the clinical research process involving human subjects. The course will include an overview of the research process, procedures, sampling data collection and analysis. Fall, Spring.

ES 4673. Exercise Prescription for Special Populations Provide the students with principles and practice in developing exercise regimens and programs specifically designed for special populations. Prerequisites, ES 3543, ES 3553, ES 4683. Spring.

ES 4683. Exercise Prescription and Fitness Programming The application of basic physiological principles in the prescription of exercise and the administration of conditioning programs for individuals of differing ages, health status, and occupational status. Prerequisite, ES 3543, 3553, ES 3623. Fall.

ES 4693. Techniques of Strength Training and Conditioning The study of current principles and procedures essential to strength training and conditioning practices. Emphasis is placed on the development and practical applications of aerobic conditioning, joint flexibility, and muscular strength, power and endurance programs. Prerequisites, ES 3543, ES 3553. Spring.

ES 4763. Kinesiology Mechanics of human motion and its application to physical activity. Prerequisite, ES 3543, Human Anatomy and Fundamentals of Motion. Fall, Spring.

ES 4813. Applied Motor Learning The study and practical applications of relevant motor learning theories and research related to exercise science, physical education, and sport programs. Prerequisites, ES 3543, ES 3553. Fall.

ES 4843. Practicum/Pre-Internship Introduction to field experience in exercise science in order to become familiar with the operational and procedural aspects of clinically based exercise facilities. Prerequisite, ES 3623, ES 3653, ES 3713, ES 4673, ES 4683. Corequisite, ES 4693. Spring.

Health (HLTH)

HLTH 2513. Principles of Personal Health Principles, problems, and practices in the development of positive health behavior. Fall, Spring, Summer.

HLTH 2523. First Aid and Safety Fundamentals, techniques, and practices of Standard First Aid and CPR as prescribed by the National Safety Council. Emphasis on programs of accident prevention in schools, homes, recreational areas, traffic safety. Fall, Spring, Summer.

- HLTH 3523. Public and Community Health** Examination of public and community health problems, their causes, and possible solutions from a local, state, national, and international perspective. Roles of the individual and the community, and functions of the various agencies involved with health related issues will also be studied. Fall.
- HLTH 3533. Strategies for Teaching Health Education** Theory and teaching techniques for effective health instruction. Spring.
- HLTH 3563. Human Sexuality** Emphasis given to human reproduction, courtship, marriage, parenthood, premarital and extramarital sex, and deviate sexual behavior. Fall, Spring, Summer.
- HLTH 4513. Consumer Health** An analysis of the health services and health products offered in the market place and study of principles involved in making wise consumer health choices. Summer.
- HLTH 4523. Current Issues in Health** Current issues and trends in personal, public, and international health with stress on individual research and readings. Fall.
- HLTH 4543. Drug Use and Abuse** An exploration of the physical, mental, emotional, and social aspects of drug use and abuse. Special attention will be focused on proper use of drugs within contemporary society. Fall, Spring, Summer.
- HLTH 4573. The School Health Program** The scope and function of the total school health program including common health problems, recommended program organization, and administrative practices. Demand.
- HLTH 4633. Health Promotion Assessment and Planning** Designed to facilitate students understanding of the process of conducting needs assessments with various populations and to help students learn how to plan a well designed program for implementation. Fall.
- HLTH 4643. Health Promotion Implementation and Evaluation.** Designed to facilitate students understanding of the process of program implementation and evaluation. Students will implement and evaluate various health interventions. Prerequisite, HLTH 4633. Spring.
- HLTH 480V. 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)

- HPES 1013. Introduction to Health, Physical Education and Sport Sciences** Required course for all first-semester freshmen interested in the area of Health, Physical Education, and Sport Sciences, HPES. Course content will focus on the historical perspective of physical education, professional and vocational opportunities, and skills/knowledge needed to be a successful student. C or better required. Fall.
- HPES 1883. Foundations of Health, Physical Education and Sport Sciences** Introductory course for the prospective HPES major. Provides insight to the history, sociological impact, and objectives of physical education and sport, with emphasis on current professional literature and vocational opportunities. HPES majors must make a C or better in this course. Spring.
- HPES 4863. Internship in HPES I** Capstone experience for Exercise Science, Health Promotion, 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. Prerequisite for Exercise Science majors only, ES 4843. Fall, Spring, Summer.

- HPES 4893. Internship in HPES 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.
- HPES 4896. Internship in HPES** Capstone experience for Exercise Science, Health Promotion, and Sport Management majors. Enrollment must occur during the last semester of 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)

- PE 1002. Concepts of Fitness** Provides knowledge and appreciation of the importance of physical fitness for lifelong health, wellness, and a quality life, and opportunities for psychomotor development. Fall, Spring, Summer.
- PE 1011. Pilates and Fitness Yoga** The principles and concepts of Pilates and Fitness Yoga in developing overall body flexibility, strength and endurance as well as enhancing good body posture. Fall, Summer.
- PE 1021. Self Defense** Gain an understanding of the terminology and the physical techniques associated with self defense against kicks, strikes, grabs, and ground fighting. Fall.
- PE 1111. Physical Conditioning** Basic conditioning. The course includes weight training, circuit training, cardiovascular and respiratory activity. Fall, Spring, Summer.
- PE 1121. Figure Control** The principles and concepts of exercise as related to enhancement of personal appearance. Fall, Spring.
- PE 1131. Aerobic Exercise** Basic conditioning involving continuous rhythmic movement. Individualized fitness programs are developed for each student. Fall, Spring.
- PE 1141. Beginning Rugby** Introduction to the basic skills, rules, and strategy of rugby. Fall.
- PE 1151. Ultimate Frisbee** This course is designed to introduce students to the basic knowledge of the rules, nature, techniques and strategies of ultimate Frisbee as well as provide the opportunity to develop personal skills essential for the game. Spring.
- PE 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.
- PE 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.
- PE 1231. Country Western Dance** Beginning instruction in skills and techniques of Country Western style dance steps. Fall, Spring.
- PE 1241. Fitness Walking** Fundamental techniques of and benefits derived from a regimented aerobic walking program. Fall, Spring.
- PE 1311. Beginning Swimming** Nonproficiency course designed to teach basic swimming skills for nonswimmers or beginning swimmers. Fall, Spring.

- PE 1321. Water Aerobics** Basic conditioning involving aquatic exercise, opportunity to develop and maintain fitness while enjoying water activities. Fall, Spring.
- PE 1411. Track and Field** Introduction to the fundamentals of track and field activities. Fall, Spring.
- PE 1421. Racquetball** Introduction to the basic skills, rules, and strategy in racquetball. Fall, Spring, Summer.
- PE 1461. Archery** Introduction to fundamentals of recreational archery. Fall, Spring, Summer.
- PE 1471. Bowling** Introduction to the basic techniques of bowling. Special course fee, \$25.00. Fall, Spring.
- PE 1481. Tennis** Introduction to the basic skills, rules, and strategy in tennis. Fall, Spring, Summer.
- PE 1491. Badminton** Introduction to the basic skills, rules, and strategy in badminton. Fall, Spring.
- PE 1501. Golf** Introduction to the basic skills, rules, and strategy in golf. Fall, Spring.
- PE 1511. Gymnastics** Introduction to the basic skills in tumbling. Designed for BSE physical education majors. Fall, Spring.
- PE 1521. Trampoline** Instruction and practice in trampoline skills and routines. Demand.
- PE 1531. Fencing** Introduction to the basic skills, rules, and strategy of foil fencing. Demand.
- PE 1601. Soccer** Introduction to the basic skills, rules, and strategy in soccer. Fall, Spring.
- PE 1611. Basketball** Introduction to the basic skills, rules, and strategy of basketball. Fall, Spring.
- PE 1621. Volleyball** Introduction to the basic skills, rules, and strategy of volleyball. Fall, Spring.
- PE 1641. Flag and Touch Football** Introduction to the basic skills, rules, and strategy of flag and touch football. Fall, Spring.
- PE 1651. Softball** Introduction to the basic skills, rules, and strategy of softball. Fall, Spring.
- PE 1801. International Folk Dance** Folk dances of various people throughout the world, understanding of basic terms and steps. Demand.
- PE 1821. Ballet** Introductory course featuring the history, barre work, center floor, allegro moves, and body positions of ballet. Demand.
- PE 1841. Ballroom Dance** Techniques of the following dances, foxtrot, polka, waltz, Latin, basic moves, country western, swing, and others. Demand.
- PE 2141. Intermediate Rugby** Instruction in skill, strategy, and techniques in rugby. For students who have already acquired the basic skills of rugby. Fall, Spring.
- PE 2311. Intermediate Swimming** Instruction and practice in five basic swimming strokes. Fall, Spring.

- PE 2461. Intermediate Archery** Archery experience with the option for earning a N.A.A. Level I Archery Instructor Certification. Instruction includes arrow repair, bow maintenance, and shooting indoors and outdoors. Prerequisite, PE 1461 or Instructor approval. Spring.
- PE 2811. American Square and Round Dance** Techniques and basics in square and round dancing. Spring.
- PE 2833. Introduction to Professional Golf Management** An introductory course that studies professional golf course management and operations. Topic areas include strategic planning for golf businesses, risk management for golf equipment and facilities, turf management, concessions, and marketing strategies and services. Fall, Summer.
- PE 3723. Sports in Cinema** This course is to provide students opportunities to explore literature and deconstruct films by analyzing the message elements attached to cinematic sports. Spring, Summer.
- PE 3752. Advanced Swimming and Lifeguarding** Development of swimming and opportunity for certification in lifeguarding. Prerequisite, Intermediate swimming skill. Demand.
- PE 3762. Aquatic Safety Instruction and Pool Management** Advanced aquatic techniques and management of aquatic facilities. Prerequisite, Intermediate swimming skill. Demand.
- PE 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.
- PE 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.
- PE 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.
- PE 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. Fall, Spring.
- PE 3813. Concepts of Athletic Training** A course designed for physical educators, coaches and students interested in the care of sports related injuries. Spring, Summer.
- PE 3823. Theory and Practice of Teaching Rhythmical 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.
- PE 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.
- PE 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.

PE 3853. Sports Promotion and Sales Management Theories, concepts, and research associated with sport consumer behaviors. Prerequisite, Junior level standing. Spring.

PE 3862. Theory and Practice of Teaching Racket Sports Instructional strategies for teaching skill techniques, progression, and planning in selected racket sports, badminton, racquetball, pickleball, and tennis, for students in grades P through 12. Prerequisites, SCED 2514 and PE 3802. Fall, Spring.

PE 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.

PE 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.

PE 3873. Facility and Event Management Principles and practices for operating athletic centers and recreational facilities. Spring.

PE 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.

PE 3893. Sports in Society An overview of the impact and significance of play and sports as a social institution. Fall, Summer.

PE 4663. Motor Skills Development for Children Appropriate content and skill performance levels in basic game skills and gymnastics for grades K through 6. Spring.

PE 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.

PE 471V. Independent Study Student may engage in supervised study of physical education issues. Demand.

PE 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.

PE 4753. 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.

PE 4773. Organization and Management of Sports Programs Planning, organizing, leading, and evaluating of institutional and community sports programs. Spring.

PE 4783. Organization and Administration of Physical Education Problems relating to the planning and management of physical education programs in the public school. Fall, Spring.

PE 4793. Evaluation in Physical Education Tests and evaluation procedures in the areas of physical fitness, motorability, skill, and knowledge. Emphasis is placed on the administration of tests and use of results. Spring.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

PE 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.

PE 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.

PE 4832. Theory and Practice of Coaching Basketball Class follows same pattern as described in 4822 above. Spring.

PE 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.

PE 4843. Philosophy and Ethics in Sport An exploration of major issues, ethical theories, moral reasoning and their impact on the operation of programs in sport, physical education, fitness, athletics, and recreation. Spring.

PE 4852. Theory and Practice of Coaching Baseball Class follows same pattern as described in 4822 above. Fall.

PE 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.

PE 4862. Theory and Practice of Coaching Gymnastics Instruction and practice in performing gymnastic events with emphasis on teaching techniques, also practicum in conducting competitive meets. Demand.

PE 4872. Theory and Practice of Coaching Volleyball Class follows same pattern as described in 4822 above. Fall.

PE 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.

PE 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.

PE 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)

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 of teaching internship. Fall, Spring.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

DEPARTMENT OF PSYCHOLOGY AND COUNSELING

Psychology (PSY)

PSY 1013. Making Connections Psychology Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

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.

PSY 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 2013 or permission of instructor. Fall, Spring, Summer.

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

PSY 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.

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

PSY 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.

PSY 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.

PSY 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.

PSY 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.

PSY 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.

PSY 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.

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

PSY 3603. Positive Psychology Scientific study of happiness, psychological well-being, and character strengths. Spring.

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

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

PSY 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. Demand.

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

PSY 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.

PSY 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.

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

PSY 4343. Learning Processes The study of behavioral adaptation at the level of the individual. Includes empirical and theoretical issues related to classical and instrumental conditioning, complex learning, memory, and the neural bases of learning and memory. Human and infrahuman data are considered. Fall.

PSY 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.

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

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

PSY 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.

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

PSY 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 TEACHER EDUCATION

Early Childhood Education (ECH)

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 3603 and screening into the Teacher Education P through 4 program. Must be admitted to the Teacher Education Program. Summer.

ECH 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.

ECH 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.

ECH 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.

ECH 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.

ECH 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.

ECH 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.

ECH 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, RDNG 3203. Corequisites, ECH 3063, ECH 3073. Fall, Spring, Summer.

ECH 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, RDNG 3023, and ECH 3003. Fall, Spring, Summer.

ECH 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, RDNG 3203, SE 3643. Corequisites, ECH 3043, ECH 3073. Fall, Spring, Summer.

ECH 3073. Children, Families, and Community Relations: 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, RDNG 3203. Corequisites, ECH 3043, ECH 3063. Fall, Spring, Summer.

ECH 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.

ECH 3093. 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. Fall, Spring, Summer.

ECH 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. Spring.

ECH 3613. Strategies for Supporting Learning Through Play Emphasizes the role of play in the development and learning of typically and atypically developing children, play as a mode to understand children, and strategies to use play to support the learning and development of children. Ten clock hours of Field Experience required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2012, ECH 2023. Spring.

ECH 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.

ECH 4013. Field Experience III Pre-Internship Observing, teaching, evaluating curriculum and materials, managing classrooms, and addressing the diverse needs and learning strategies of children. 240 clock hours of Field Experiences required. Must be admitted to the Teacher Education Program. Prerequisites, RDNG 3203, ECH 3023, ECH 3033, ECH 3053. Corequisites, RDNG 4403, ECH 4012, ECH 4023, ECH 4043. Fall, Spring.

ECH 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.

ECH 4043. Methods and Materials of Math and Science in Early Childhood
Acquaints preservice 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.

ECH 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.

ECH 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.

ECH 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.

ECH 4086. Teaching Internship in Early Childhood Education Kindergarten
6 semester hours. Prerequisite, Admission to the internship semester as specified by the Office of Professional Programs of the College of Education. Must be admitted to the Teacher Education Program. Special course fees may apply. Fall, Spring.

ECH 4096. Teaching Internship in Early Childhood Education Primary Grades 1 to 3
6 semester hours. Prerequisite, Admission to the internship semester as specified by the Office of Professional Programs of the College of Education. Special course fees may apply. Fall, Spring.

ECH 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.

ECH 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.

ECH 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.

ECH 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.

ECH 480V. Special Topics Current subjects of interest in Early Childhood Education professionals with appropriate subtitles. Must be admitted to the Teacher Education Program.

Method and Materials Teaching English (EDEN)

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.

Elementary Education (ELED)

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. Demand.

ELED 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. Demand.

ELED 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.

ELED 4613. Techniques of Behavior Management Techniques of systematic behavioral intervention, including all areas of exceptionality in regular classes, special classes, itinerant and resource programs. Students must complete a fifteen clock hour case study and behavior management project. Must be admitted to the Teacher Education Program. Special course fees may apply. Summer.

ELED 480V. Special Topics Current subjects of interest to graduate and undergraduate 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)

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 MLED 2022, prerequisite to MLED 3083 and screening into the Teacher Education program. Fall, Spring, Summer.

MLED 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.

MLED 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. Spring, Summer.

MLED 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. Spring, Summer.

MLED 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.

MLED 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, MLED 3083. Spring, Summer.

MLED 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. Summer.

MLED 3083. Integration of Technology into the Curriculum Teaches preservice teachers in the early childhood and middle level programs how to integrate educational technology into the classroom curriculum. Prerequisite, MLED 2002. Fall, Spring, Summer.

MLED 4013. Methods and Materials for Teaching Language Arts and Social Studies in the Middle Grades Methods course using language arts as an integrating factor in social studies content. Application of integrated teaching activities required. Three clock hours of fieldwork required. Prerequisites, MLED 3073. Fall.

MLED 4023. Methods and Materials for Teaching Mathematics and Science in the Middle Grades The course includes scientific and mathematical process skills, the interrelated nature of mathematics and science. Three clock hours of fieldwork is required. Prerequisite, MLED 3073. Fall.

MLED 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.

MLED 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.

MLED 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. Special course fees may apply. Fall, Spring.

MLED 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. Special course fees may apply. Fall, Spring.

Reading (RDNG)

RDNG 3003. Reading Acceleration For students who have a need to develop efficiency in reading.

RDNG 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.

RDNG 4313. 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.

RDNG 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.

RDNG 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.

RDNG 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, ECH 4003. Fall, Summer.

RDNG 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)

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. Prerequisite, 15 semester hours of college credit. Fall, Spring.

SCED 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.

SCED 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. Fall, Spring.

SCED 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.

Secondary Teaching Methods (ED__ __)

EDAG 4623. Special Methods for Teaching Agricultural Education Overview of major components of an efficient agriculture department at the secondary school level. Emphasis on teaching methods and materials required for the agriculture classroom and mechanics laboratory. Opportunities for course planning, classroom management, record development, and career orientation. Must be admitted to the Teacher Education Program. Spring.

EDAR 4523. Methods and Materials for Teaching Art Emphasis on the practical application of art in the secondary school. Techniques and strategies of teaching art, developing an art curriculum, assessing and motivating students. Must be admitted to the Teacher Education Program. Fall.

EDBU 4533. Methods and Materials in Teaching Business Technology Study of the role and scope of the vocational business education teacher, professional organizations, professional ethics, federal involvement, and professional literature. Emphasis on the assessment of student competencies, competency based programs, resources, facilities, and curriculum development. Selection and practice in teaching techniques and strategies. Must be admitted to the Teacher Education Program. Fall.

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 in incorporating cognitive, psychomotor, and effective 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.

EDMU 4643. Methods and Materials for Teaching Vocal Music An overview of the music curriculum, K through 12. Emphasis on teaching strategies incorporating cognitive, psychomotor, and affective techniques appropriate to secondary school students in vocal music. Opportunities to develop behavioral objectives, demonstrations, plan rehearsals, and more. Must be admitted to the Teacher Education Program. Spring.

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.
- TIFE 4825. PHYSICAL EDUCATION TEACHING INTERNSHIP IN THE SECONDARY SCHOOL** Ten semester hours. Full semester teaching internship. Fall, Spring.
- TIFE 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.

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COLLEGE OF ENGINEERING

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)

- 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.
- CE 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.
- CE 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.
- CE 3223. Civil Engineering Materials** Theory and application of materials used in civil engineering. Aggregate testing, concrete testing, concrete mix design, asphalt deflection, asphalt mix design, timber testing. Lecture two hours, laboratory three hours per week. Prerequisite, C or better in ENGR 2413 and 2411. Fall.
- CE 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.
- CE 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.
- CE 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.
- CE 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.
- CE 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. Dual listed as CE 5213. Fall.
- CE 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. Dual listed as CE 5223. Spring.

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- CE 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, and pile foundations. Three foundation design projects are required. Prerequisite, C or better in CE 2202. Corequisite, CE 4253. Dual listed as CE 5233. Spring.
- CE 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. Dual listed as CE 5243. Fall.
- CE 4251. Soil Mechanics Laboratory** Experiments in analysis of soil systems including index properties, permeability, compressibility and shear strength. Corequisite, CE 4253. Fall.
- CE 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. Dual listed as CE 5253. Fall.
- CE 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. Dual listed as CE 5263. Spring, even.
- CE 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.
- CE 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. Dual listed as CE 5283. Spring.
- CE 429V. Special Problems in Civil Engineering** Individually directed problems in civil engineering for juniors and seniors. A course outline and project summary listing the goals and expected outcomes must be approved by the student advisor and the program director. Prerequisites are dependent on the nature of the special problem. Demand.

Electrical Engineering (EE)

- EE 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 1023, MATH 1033, MATH 1054 or MATH 2204. Demand.

- EE 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 EE 3401. Corequisite, EE 3363. Spring, even.
- EE 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.
- EE 3323. Computer and Graphics Applications in Electrical Engineering** Modern computer applications, graphics techniques, and software specific to electrical engineering. Circuit schematics and simulation. Data acquisition, processing, and presentation. Multidimensional graphics. Printed circuit board design. Integrated lecture and laboratory. Prerequisites, C or better in EE 3313 and EE 3403. Demand.
- EE 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, EE 3333. Demand.
- EE 3333. Digital Electronics I** Introduction to the analysis and design of digital and computer circuits, Boolean algebra, binary arithmetic, combinational logic, sequential logic, registers, counters, adders, comparators, and computer organization. Prerequisite, C or better in either CS 2114 or ENGR 2423. Fall.
- EE 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 EE 3313. Fall.
- EE 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 EE 3313. Corequisite, MATH 4403. Fall.
- EE 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 CHEM 1013, PHYS 2034, and C or better in EE 3403 and ENGR 3443. Spring, even.
- EE 3371. Computer Engineering I Laboratory** Design and experimentation in computer electronics, hardware, communication, and information coding to support knowledge gained in the partner course EE 3373, Computer Engineering I. Prerequisites, C or better in either CS 2114 or EE 3333. Corequisite, EE 3373. Demand.
- EE 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 either CS 2114 OR EE 3333. Demand.

- EE 3383. Principles and Practices in Electrical Engineering** Principles of and good practices in electrical engineering, professional organizations, literature, intellectual property, licensure, ethics and regulations, vendors, products, specifications, procurement, communications and human relations, resource management, product certification and manufacturability, and modern tools and issues. Prerequisites, EE 3313 and EE 3403. Demand.
- EE 3401. Electronics I Laboratory** Basic laboratory experiments in electronic circuits and solid state electronic devices. Corequisite, EE 3403. Prerequisite, C or better in ENGR 2421. Fall.
- EE 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.
- EE 4303. Engineering Field and Waves II** Study of electromagnetic waves in free space, dielectrics, and conductors, transmission lines, polarization, reflection, refraction, diffraction, waveguides, resonators, antennas, and radiation. Prerequisites, MATH 4403 and C or better in EE 3343. Dual listed as EE 5303. Demand.
- EE 4313. Control Systems** Analysis and design of linear feedback systems. Transfer functions, state space analysis, transient and steady state characterization, stability determination. Closed loop analysis and design using root locus and frequency domain methods. Prerequisites, C or better in EE 3403. Corequisite, EE 3353. Dual listed as EE 5313. Demand.
- EE 4321. Electrical Machinery Laboratory** Experiments dealing with motor, generators, transformers, and associated measurements and controls. Prerequisite, C or better in ENGR 2421. Corequisite, EE 4323. Demand.
- EE 4323. Electrical Machinery** Introduction to the analysis and design of electromechanical energy conversion systems, magnetic circuit theory, general transformer and machinery theory, and DC and AC motors and generators. Prerequisite, C or better in EE 3313 or ENGR 3473, and ENGR 3423. Dual listed as EE 5323. Demand.
- EE 4333. Communications Theory** Frequency spectra of time signals. Review of Fourier series and transforms. Signal mixing, modulation, and demodulation. AM and FM broadcasting techniques and bands. Pulsed and digital communication modes. Prerequisite, C or better in EE 3353 and EE 3403. Dual listed as EE 5333. Demand.
- EE 4344. Microprocessor and PLC Applications** A microcomputer hardware interfacing course for senior level engineers. A survey of small computers and their 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 EE 3333 and EE 3401, or consent of instructor. Dual listed as EE 5344. Demand.
- EE 4353. 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 EE 3313 and ENGR 3423. Corequisite, MATH 4403. Dual listed as EE 5353. Demand.
- EE 4363. 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 EE 3343 or EE 3363. Dual listed as EE 5363. Demand.
- EE 4371. Intermediate Electrical Engineering Laboratory** Advanced design oriented experiments in analog electronic and AC electrical devices and circuits. Corequisite, EE 4373. Prerequisite, C or better EE 3401. Spring, odd.

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- EE 4373. Electronics II** A continuation of EE 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 EE 3313, ENGR 3443, and EE 3403. Dual listed as EE 5373. Spring, odd.
- EE 4381. Digital Electronics II Laboratory** Advanced digital electronic systems and introduction to microprocessor and mini computer architecture, programming, interfacing, and design applications. Prerequisite, C or better in EE 3331 or EE 3401. Corequisite, EE 4383. Demand.
- EE 4383. Digital Electronics II** Continuation of the study of digital circuit design with emphasis on the design of larger systems and use of LSI components. Register transfer logic, computer interfacing and design, and microcomputer based system design. Prerequisite, C or better in EE 3333. Demand.
- EE 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 EE 3353. Demand.
- EE 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 EE 3353. Demand.
- EE 4713. Semiconductor Materials and Devices II** Continuation of EE 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 EE 3363. Demand.
- EE 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, unijunction transistors, optorelays, optocouplers, rectifiers, and push, pull amplifiers. High voltage circuitry. Representative industrial applications and practical constraints and specifications. Prerequisites, C or better in EE 3333, EE 3403, and EE 3401. Demand.
- EE 4733. Semiconductor Optoelectronic Materials & Devices Laboratory II** Continuation of EE 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 EE 3303. Corequisite, EE 4713.
- EE 474V. Student Research in Electrical Engineering** Individual or small group research projects in electrical engineering as directed by an electrical engineering instructor. A project proposal, interim and final report, and a final oral presentation will be required and approved by the instructor and Director of Electrical Engineering. Prerequisites, 30 credit hours, and C or better in EE 3313 or EE 3403. Demand.
- EE 479V. Special Problems in Electrical Engineering** Individually directed problems in electrical engineering for juniors and seniors. A course outline and project summary listing the goals and expected outcomes must be approved by the student advisor and the program director. Prerequisites are dependent on the nature of the special problem. Demand.

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Engineering (ENGR)

- 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.
- ENGR 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.
- ENGR 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.
- ENGR 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.
- ENGR 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.
- ENGR 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.
- ENGR 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.
- ENGR 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.
- ENGR 3433. Engineering Economics** Quantitative techniques for decision making, breakeven analysis, economic models, Gaussian distributions, inventory control, production models, and mathematical programming. Prerequisite, C or better in MATH 1023. Fall, Spring, Summer.
- ENGR 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.
- ENGR 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.
- ENGR 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, consent of instructor. Demand.

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- ENGR 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.
- ENGR 3473. Fluid Mechanics** Basic fundamentals of fluid properties, fluid statics, fluid equations, viscous effects, and ideal fluid flow are applied to engineering problems in closed conduits, open channels, and fluid measurements. Prerequisite, C or better in MATH 3254 and ENGR 2403. Fall, Spring, Summer.
- ENGR 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.
- ENGR 4453. Numerical Methods for Engineers** Numerical methods and computational techniques for solving engineering design problems. Prerequisite, C or better in MATH 4403. Fall, Spring.
- ENGR 4463. Senior Design I** Multidisciplinary group work on a design problem from conceptualization through selection of best alternative. Project proposal, progress reports, comprehensive final report, and oral presentations are required. Lecture topics include the design process, project management, effective communications, and statistics and probability concepts for design. Lecture two hours, laboratory one hour per week. Prerequisite, C or better in ENGR 2411, ENGR 2413, ENGR 2421 and ENGR 2423, senior standing, and consent of instructor. Fall, Spring.
- ENGR 4483. Senior Design II** Continuation of ENGR 4463, Senior Design I, with multidisciplinary group work to complete final design and fabrication aspects. Project proposal, progress reports, comprehensive final report, and oral presentations are required. Lecture topics include leadership and teamwork, business organizations and issues, effective communications, legal issues, patents, and liability, professional responsibilities, and ethics. Lecture one hour, laboratory three hours per week. Prerequisite, C or better in ENGR 4463, senior standing, and consent of instructor. Fall, Spring.
- ENGR 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 adviser and the department chair. A written report is required. A copy must be filed in the engineering office. Demand.

Mechanical Engineering (ME)

- 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. Fall, Spring.
- ME 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.
- ME 3513. Mechanical Vibrations** Kinematics of harmonic and nonharmonic vibrations, systems 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.
- ME 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.

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- ME 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. Dual listed as ME 5503. Fall.
- ME 4513. Dynamics and Control of Machinery** Dynamics analysis of mechanisms 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. Dual listed as ME 5513. Demand.
- ME 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. Dual listed as ME 5523. Fall, Spring.
- ME 4543. Machine Design** Analysis and design of mechanical system components using theoretical and empirical concepts coupled with computational modeling and numerical analysis. Prerequisites, C or better in ENGR 2413. Dual listed as ME 5543. Fall, Spring.
- ME 4553. Heat Transfer** Application of theories of heat transfer by conduction, convection, and radiation to manufacturing processes and industrial applications. Prerequisites, C or better in MATH 4403, ENGR 2423, ENGR 3443, and ENGR 3473. Dual listed as ME 5553. Fall.
- ME 4561. Introduction to Manufacturing Processes Laboratory** Basic manufacturing experiments involving metal cutting, metal forming and other manufacturing techniques are conducted to assist with the understanding of the lecture material. Laboratory two hours per week. Demand.
- ME 4563. Introduction to Manufacturing Processes** Principles of manufacturing processes, including common material removal processes, the principles of metal casting and forming, and an introduction to polymers, composites, and nontraditional processes. Prerequisites, C or better in ENGR 2413. Fall.
- ME 4573. Mechanical System Design** Capstone design course for mechanical systems. Teams of students will design and assemble a mechanical system which satisfies the specifications of a selected design problem. Progress reports, final reports, and an assembled final product will be required. Prerequisite, C or better in ME 4543.
- ME 4583. Energy Conversion** Combustion analysis of hydrocarbon fuels. Transmission of energy by mechanical, electrical, and hydraulic means. Selected topics in mass transfer and fluid mechanics. Prerequisite, C or better in ENGR 3443. Dual listed as ME 5583. Demand.
- ME 4593. Design of Heating, Ventilating, and Air-Conditioning Systems** Design of HVAC systems to modify environmental conditions. Prerequisite, C or better in ENGR 3443. Dual listed as ME 5593. Spring.
- ME 469V. Special Problems in Mechanical Engineering** Individually directed problems in mechanical engineering for juniors and seniors. A course outline and project summary listing the goals and expected outcomes must be approved by the student advisor and the program director. Prerequisites are dependent on the nature of the special problem. Demand.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

COLLEGE OF FINE ARTS

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 ART

Art Education (ARED)

- ARED 3702. Art for the Classroom Teacher** Planning and developing creative art programs and art appreciation for the elementary grades. Prerequisite, 30 semester hours. Fall, Spring, Summer.
- ARED 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 childrens artwork are the focus of this course. Prerequisite, 30 semester hours completed, ART 1013, ART 1033, ARTH 2583, and ARTH 2593. Spring.
- ARED 4703. Concepts in Art Education** A study of historical and contemporary philosophical concepts in art education. Prerequisite, Acceptance into a teacher education program. Prerequisites, ARED 3803, and PHIL 1103 or PHIL 1503. Spring.
- ARED 4753. Special Problems in Art Education** Independent study of approved topics in Art Education. May be repeated for credit. Prerequisite, Permission of professor. Demand.

Art (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. Fall, Spring.
- ART 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. Prerequisites, ART 1013 and ART 1033. Fall, Spring.
- ART 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. Fall, Spring, Summer.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

ART 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. Prerequisite, ART 1033. Fall, Spring, Summer.

ART 1073. Elective Fine Art Photography for Nonmajors STUDIOART. 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. Fall, odd.

ART 1083. Elective Printmaking for Nonmajors STUDIO ART. Basic techniques in creating original designs in hand printing processes, including silkscreen, and wood block prints. May be repeated for credit, however, no more than 3 hours may be applied toward a degree in fields other than art. 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. Fall, Spring.

ART 1093. Elective Ceramics for Nonmajors STUDIOART. Basic exploration of techniques of clay manipulation including the use of the potters wheel. Lab assistants will fire selected pieces. May be repeated for credit. However, no more than 3 hours may be applied toward a degree in fields other than art. 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. Fall, Spring.

ART 2013. Design III STUDIO ART. Two dimensional design principles. Further development in design, including research in the theory of color and the organization of two dimensional space. 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. Prerequisites, ART 1013 and ART 1033. NOTE, ART 1023 is not a prerequisite for this course. Fall, Spring.

ART 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.

ART 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. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisite, ART 2413. Spring.

ART 2433. Digital Photography I STUDIO ART. 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 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 or permission of instructor. Fall.

ART 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, ART 2413, or permission of instructor. Fall, even.

ART 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 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 1033, ART 1013 or permission of instructor. Spring.

ART 2503. Fine Arts-Visual FINE ARTS. Introduction to visual art for all students regardless of background or experience. The purpose is to develop cognitive and experiential responses to works of art. Note, This course is for non art majors and does not meet general education requirements for any degree in Art. Fall, Spring, Summer.

ART 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 will be provided when available. 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. 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 and 1043, ARTH 2583, ARTH 2593. May be repeated for credit. Fall, Spring, Summer.

ART 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. 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, ARTH 2583, ARTH 2593. Fall, Spring.

ART 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. 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, ARTH 2583, ARTH 2593. Fall.

ART 3083. Printmaking STUDIOART. 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. 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, ARTH 2583, ARTH 2593. May be repeated for credit. Fall, Spring.

ART 3093. Ceramics STUDIO ART. Introduction to ceramic materials and techniques, wheelthrown and handbuilt forms. 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. 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, ARTH 2583, ARTH 2593. Fall, Spring.

ART 3103. Sculpture STUDIOART. 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. 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, ARTH 2583, ARTH 2593. Fall, Spring.

ART 3330. BFA Review Admissions screening, transfer screening for all BFA students. Counseling and advising practice by portfolio review. Provides realistic assessment of student status in relation to program. Passing is prerequisite for 4000 level ART courses. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043, ARTH 2583, and ARTH 2893. Fall, Spring.

ART 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. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisites, ART 1013, ART 1043, ARTH 2583, ARTH 2593. Spring, even.

ART 3403. Photography STUDIOART. An introductory study of photographic equipment, techniques, 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. 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, ARTH 2583, ARTH 2593. Fall.

ART 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. 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, ARTH 2583, and ARTH 2593. Fall.

ART 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. 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 1043, ART 2013, ART 2423, ARTH 2583, and ARTH 2593. May be repeated for credit. Fall.

ART 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. 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 2423, ARTH 2583, ARTH 2593, and either ART 3063 or ART 3073. Fall.

ART 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 spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio Graphic Design class. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisites, ART 3413. May be repeated for credit. Spring.

ART 3453. Motion Graphics GRAPHIC DESIGN. This course will explore the foundations of motion graphics. Design for screen, effective use of typography, graphical 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. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisites, ART 1013, ART 1023, ART 2423. Spring odd.

ART 3673. Seminar in Digital Media and Design GRAPHIC DESIGN. A study of the development and impact of 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. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Cross listed as RTV 3673. Spring.

ART 4033. Advanced Drawing STUDIO ART. Working from various subject matter, including the figure model, in different media. Experimental studies in composition and technique. 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. Prerequisite, ART 3330 and ART 3033 or permission of instructor. May be repeated for credit. Fall, Spring.

ART 4063. Advanced Painting STUDIO ART. Individual work for advanced students. 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. May be repeated for credit. Prerequisite, ART 3063 and ART 3330 or permission of instructor. Fall, Spring.

ART 4083. Advanced Printmaking STUDIO ART. Continuation of Printmaking 3083. 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. May be repeated for credit. Prerequisites, ART 3083, ART 3330 or permission of instructor. Fall, Spring.

ART 4093. Advanced Ceramics STUDIOART. Continuation of ceramics work. Independent projects for advanced students. 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. May be repeated for credit. Prerequisite, ART 3093 and ART 3330 or permission of instructor. Fall, Spring.

ART 4103. Advanced Sculpture STUDIOART. Continuation of sculpture work with emphasis on development of personal direction. 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. May be repeated for credit. Prerequisite, ART 3103, ART 3330 or permission of instructor. Fall, Spring.

ART 4330. Senior Exhibition STUDIOART. Capstone course required for all graduating BFA Studio Art emphasis students. 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. Prerequisite, ART 3330, Minimum GPA of 2.75 in all work with an ART, ARTH or ARED prefix, permission of advisor, instructor, and department chair. Fall, Spring, Summer.

ART 435V. Studio Problems STUDIOART. 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. 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. Enrollment restricted to permission of advisor, instructor, and department chair. Fall, Spring, Summer.

ART 4363. Graphic Design Internship GRAPHIC DESIGN. Supervised work in a professional graphic design setting. Enrollment restricted to permission of Department Chair. Prerequisite, ART 3330 and a minimum GPA of 2.75 in all work with an ART, ARTH or ARED prefix. Fall, Spring, Summer.

ART 4403. Photography for the Graphic Designer I GRAPHIC DESIGN. Study of photographic equipment, techniques and processes with emphasis on graphic design 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. Prerequisite, ART 2423, ART 3330 or permission of instructor. Spring, even.

ART 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. Prerequisite, ART 4403, ART 3330 or permission of instructor. Spring, even.

ART 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. Prerequisite, ART 3413, ART 3330 or permission of instructor. Fall.

ART 4433. Illustration II GRAPHIC DESIGN. Advanced studies in various illustrative materials and techniques including computer applications. 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. Prerequisite, ART 3433, ART 3330 or permission of instructor. May be repeated for credit. Fall, Spring.

ART 4443. Photography as a Fine Art I STUDIOART. 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 class. Prerequisite, ART 3330 or permission of instructor. Fall.

ART 4453. Photography as a Fine Art II STUDIOART. 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 class. May be repeated for credit. Prerequisite, ART 4443. Fall, even.

ART 4463. Advanced Digital Design GRAPHIC DESIGN. This course will offer students advanced instruction 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. Prerequisite, ART 2443, ART 3330 or permission of instructor. Spring, odd.

ART 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. 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. Enrollment restricted to permission of advisor and instructor. Prerequisite, minimum GPA of 2.75 in all course work with an ART, ARTH, or ARED prefix. Fall, Spring.

ART 4611. Senior Thesis STUDIOART. 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. Permission of instructor required. Fall, Spring, Summer.

Art History (ARTH)

ARTH 2583. Survey of Art History I General investigation of the historical development of art from prehistoric periods to the Renaissance. Fall, Spring.

ARTH 2593. Survey of Art History II Continuation of ART 2583, covering the period from the Renaissance to the Modern period. Fall, Spring.

ARTH 3623. Roman Art and Architecture This course examines the major monuments and art styles in the city of Rome and the Roman provinces from the Republic to the Imperial period, ending with the reign of Constantine the Great. Prerequisites, ART 3330 or Instructor permission. Spring even.

ARTH 430V. Studies in Art History Individual directed study and investigation of pertinent areas in the history of art. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. May be repeated. Demand.

ARTH 4443. 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 and ARTH 2593 or permission of Instructor. Fall even.

ARTH 4503. History of Photography History, aesthetics, and appreciation of photography. Prerequisites, ARTH 2583 and ARTH 2593 or Instructor permission. Spring, Odd

ARTH 4513. Methodology in the History and Criticism of Art Directed research methods for students of the visual arts. Written reports and oral presentations concerning both methodology and results of research. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. Demand.

ARTH 4533. Renaissance Art History Artists, styles, and development of art during the Renaissance Period in Italy and northern Europe. Prerequisites, ARTH 2583 and ARTH 2593 or Instructor permission. Fall, odd.

ARTH 4553. Medieval Art History Formation and development of art from the early Christian through the Gothic period. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. Demand.

ARTH 4563. Baroque and Rococo Art Artists, styles, and developments of Baroque and Rococo Art immediately following the Renaissance. Prerequisites, ARTH 2583 and ARTH 2593 or Instructor permission. Spring, even.

ARTH 4573. History of Graphic Design A historical overview of visual communication from the origins of printing and typography, through the impact of industrial technology, to the development of modern graphic design. Prerequisites, ARTH 2583 and ARTH 2593 or Instructor permission. Spring, odd.

ARTH 4583. Non-Western Art History Introduction to the visual arts and cultures of non European peoples. Specific focus will vary depending upon student interest and instructor expertise. Prerequisites, ARTH 2583, ARTH 2593 or permission of instructor. Demand.

ARTH 4593. Greek Art and Architecture A survey of Greek Art and Architecture from the early Classical through Hellenistic periods. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. Fall even.

ARTH 4603. Art of the 20th and 21st Century This course examines major artists and works of art in Western culture from the beginning of the twentieth century to the present day. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. Fall odd.

ARTH 4613. American Art History This survey of American Art from colonial times to the present examines major artistic and cultural developments in the United States, within the context of American history, and against the backdrop of European activity. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. This course is dual listed ARTH 5613. Demand.

ARTH 4693. Contemporary Art 1970 to Present This course examines major artists and works of art in Western culture from 1970 to the present day. This course is dual listed ARTH 5693. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. Spring, even.

Methods and Materials Teaching Art (EDAR)

EDAR 4523. Methods and Materials for Teaching Art Emphasis on the practical application of art in the secondary school. Techniques and strategies of teaching art, developing an art curriculum, assessing and motivating students. Must be admitted to the Teacher Education Program. Fall.

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

Methods and Materials Teaching Music (EDMU)

EDMU 4573. Methods and Materials for Teaching Instrumental Music Overview of the music curriculum K through 12. Emphasis on teaching strategies in incorporating cognitive, psychomotor, and effective 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.

EDMU 4643. Methods and Materials for Teaching Vocal Music An overview of the music curriculum, K through 12. Emphasis on teaching strategies incorporating cognitive, psychomotor, and affective techniques appropriate to secondary school students in vocal music. Opportunities to develop behavioral objectives, demonstrations, plan rehearsals, and more. Must be admitted to the Teacher Education Program. Spring.

Music Education (MUED)

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.

MUED 4613. Methods and Materials for Teaching Vocal Music in the Middle Grades Development of procedures, skills, and approaches to teaching general and choral music in grades 4-8. Demand.

MUED 4623. Music in the Elementary School Current philosophies and practices in curriculum planning for the elementary school music program. Music majors only. Fall.

MUED 4633. Music Recording Techniques Music recording techniques designed for the music educator. Special emphasis on essential electronic equipment, its use and maintenance. Demand.

MUED 4642. Piano Pedagogy Methods and materials of teaching piano. Permission of instructor required. Dual Listed MUED 5642. Demand.

MUED 4651. Instrument Repair Techniques for maintenance and minor repair of wind instruments. Spring.

MUED 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)

MUS 1211. Elementary Piano PERFORMANCE COURSES GROUP INSTRUCTION. Beginning piano class. Two laboratory periods per week. Special course fees may apply. Fall, Spring, Summer.

MUS 1221. Elementary Piano II PERFORMANCE COURSES GROUP INSTRUCTION. Continuation of beginning piano class. Two laboratory periods per week. Special course fees may apply. Prerequisite, MUS 1211 or permission of instructor. Spring.

MUS 1231. Guitar Class I PERFORMANCE COURSES GROUP INSTRUCTION. Open to all ASU students. An introductory course to learning the fundamentals of guitar playing. The course will focus on learning basic chords, conventional strumming techniques and finger picking, and notes in first position as well as the general technique of guitar playing. Special course fees may apply. Fall.

MUS 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.

MUS 1251. Elementary Voice Class and Sight-Singing A class for all music majors designed to teach basic vocal techniques and the skill of sight-singing using solfeggio. Must be taken during the first year of enrollment as a music major. Fall.

MUS 1310. 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. The wind ensemble usually performs two scheduled concerts, with possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 1311. Wind Ensemble LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Membership is open to all university students by audition on specified prepared materials and sight reading during the first week of the fall semester. The wind ensemble usually performs two scheduled concerts, with possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 1330. 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. Large ensemble courses may be repeated for credit. Spring.

MUS 1331. 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. Large ensemble courses may be repeated for credit. Spring.

MUS 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 TWRF 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.

MUS 1341. 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 TWRF 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.

MUS 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.

MUS 1351. 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.

MUS 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.

MUS 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.

MUS 1403. Music Connections 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. Fall.

MUS 1511. Aural Theory I BASIC MUSIC THEORY. Training in oral perception and the basic skills of sight singing. Two class periods per week. Spring.

MUS 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. Spring.

MUS 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. Fall.

MUS 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. Fall.

MUS 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.

MUS 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.

MUS 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.

MUS 2221. Intermediate Piano II PERFORMANCE COURSES GROUP INSTRUCTION. Continuation of MUS 2211. Prerequisite, MUS 2211 or permission of instructor. Special course fees may apply. Spring.

MUS 2231. String Instrument Techniques PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in string instrument performance. Two laboratory periods per week. Special course fees may apply. Fall, Spring.

MUS 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.

MUS 2511. Aural Theory III BASIC MUSIC THEORY. Continued training in aural and sight singing skills with emphasis on extended tonal and atonal practices. Two class periods per week. Prerequisite, C or better in MUS 1521. Fall.

MUS 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 1523. Fall.

MUS 2521. Aural Theory IV BASIC MUSIC THEORY. Continued training in aural and sight singing skills with emphasis on extended tonal and atonal practices. Two class periods per week. Prerequisite, C or better in MUS 2511. Spring.

MUS 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.

MUS 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. Spring.

MUS 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.

MUS 2621. Keyboard Skills 4 PERFORMANCE COURSES GROUP INSTRUCTION. For non pianist Music Majors. To develop piano sight reading and 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.

MUS 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.

MUS 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. Spring.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

MUS 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.

MUS 3232. Elementary Conducting PERFORMANCE COURSES GROUP INSTRUCTION. Fundamental baton technique development and interpretation of the musical score. Three class meetings per week. Special course fees may apply. Fall.

MUS 3241. Double Reed Techniques PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Fall, even.

MUS 3242. Instrumental Conducting PERFORMANCE COURSES GROUP INSTRUCTION. Intensive study of instrumental scores, baton techniques, and rehearsal procedures involved in conducting instrumental ensembles. Special course fees may apply. Spring.

MUS 3251. Clarinet Techniques PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Spring.

MUS 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.

MUS 3261. Trumpet Techniques PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Fall.

MUS 3271. 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.

MUS 3281. Percussion Instrument Techniques PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Spring.

MUS 3310. 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. The wind ensemble usually performs two scheduled concerts, with possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 3311. Wind Ensemble LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Membership is open to all university students by audition on specified prepared materials and sight reading during the first week of the fall semester. The wind ensemble usually performs two scheduled concerts, with possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 3330. 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. Large ensemble courses may be repeated for credit. Spring.

MUS 3331. 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. Large ensemble courses may be repeated for credit. Spring.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

MUS 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 TWRF 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.

MUS 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 TWRF 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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, Fall.

MUS 3422. Elementary Orchestration and Choral Arranging BASIC MUSIC THEORY. Acoustical and expressive uses of orchestral instruments and voices. Prerequisites, C or better in MUS 2513 and MUS 2511. Fall, Spring.

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MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 3633. History of Western Music II 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.

MUS 416V. Special Problems BASIC MUSIC. 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.

MUS 4223. 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.

MUS 4323. World Music BASIC MUSIC THEORY. This course will examine the music of a variety of non-western societies and cultures within which the music is produced. Prerequisites, HIST 1013, HIST 1023 or permission of Instructor. Demand.

MUS 4412. Form and Analysis BASIC MUSIC THEORY. Analysis of basic and larger forms of music. Demand.

MUS 4422. Composition 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 2513, MUS 2511. Fall.

MUS 4433. Improvisation of Jazz and Popular Music BASIC MUSIC THEORY. Fundamental techniques of improvising with emphasis on melodic and rhythmic principles. Demand.

MUS 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.

MUS 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.

MUS 4642. Piano Pedagogy PERFORMANCE COURSES GROUP INSTRUCTION. Methods and materials of teaching piano. Prerequisite, permission of instructor. Demand.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

Performance—Applied Music (MUSP)

- MUSP 1100. Recital Attendance** All music majors are required to attend a specified number of campus concerts and recitals. Fall, Spring.
- MUSP 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.
- MUSP 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.
- MUSP 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.
- MUSP 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.
- MUSP 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.
- MUSP 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.
- MUSP 3130. Junior Recital** One half. Student will perform a program equivalent to at least one half of a full solo recital. Fall, Spring.
- MUSP 4131. Senior Recital** Student will perform a full length solo performance. Fall, Spring.
- MUSP 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.
- MUSP 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.

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- MUSP 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.

Teaching Internship (TIMU)

- 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.

DEPARTMENT OF THEATRE

Theatre (THEA)

- THEA 1203. Introduction to Theatre** Basic principles of theatrical traditions and terminology. Fall.
- THEA 1213. Beginning Acting** Basic theories and techniques of the art of acting. May be repeated once, depending on progress. Fall, Spring.
- THEA 1223. Principles of Stage Design** An exploration of the basic elements of design that are used to create the visual theatrical environment. Spring, odd.
- THEA 1393. Summer Children Theatre Performance** The research, preparation and presentation of children theatre plays for a live audience. Summer.
- THEA 1403. Summer Children Theatre Performance** The research, preparation and presentation of children theatre plays for a live audience. Summer.
- THEA 2203. Voice and Movement for Theatre I** Incorporation of vocal techniques in acting styles, emphasis on vocal flexibility. May be repeated with faculty consent. Fall.
- THEA 2213. Creative Improvisation** Examines the actors physical, vocal, and psychological potential to create a clear and simple characterization without a written script. May be repeated depending on progress. Spring.
- THEA 2223. Fundamentals of Stagecraft** Techniques of constructing, painting, and rigging scenic units. Spring.
- THEA 2233. Stage Makeup** Basic principles of applying stage makeup. Spring.
- THEA 2243. Stage Costume Construction** Basic principles of stage costume construction. Fall.
- THEA 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.
- THEA 2253. Stage Management** Principles and practices of stage management. Spring, even.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

THEA 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.

THEA 2263. History of Costumes An in depth study of the clothing styles of western civilization from 5BC to the present. Fall, odd.

THEA 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.

THEA 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.

THEA 2393. Summer Children Theatre Performance The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 2403. Summer Children Theatre Technical The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 2503. Fine Arts-Theatre Provides student with an appreciation of how various artistic elements combine to produce theatrical productions. Fall, Spring, Summer.

THEA 3203. Motion Picture Appreciation Movies as a work of art and a form of persuasion. Fall, Spring.

THEA 3213. Audition Techniques Preparation and execution of audition material. May be repeated with faculty consent. Prerequisite, THEA 1213. Fall.

THEA 3223. Studies in Dramatic Literature A reading introduction to plays and playwrights spanning from Greek to contemporary works. Fall, even.

THEA 3233. Play Analysis How playwrights achieved characterization, structure, and plot. Spring, even.

THEA 3243. Stage Combat Movement and combat techniques for the stage. May be repeated with consent of faculty. Prerequisite, THEA 2213. Spring, even.

THEA 3252. Theatre Laboratory Work on productions. Required of all Theatre Arts majors during every semester, except freshman semesters. Fall, Spring.

THEA 3263. Acting Shakespeare A thorough investigation of the acting techniques specific to performing Shakespeare through scene and monologue work. Prerequisite, THEA 1213. Spring, odd.

THEA 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.

THEA 3393. Summer Children Theatre Performance The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 3403. Summer Children Theatre Technical The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 4203. Stage Directing I Directing techniques for theatrical productions. Prerequisite, THEA 2213 or consent of instructor. Fall.

THEA 4213. Acting on Camera Developing skills for performance in front of and for the television and film camera. Spring, odd.

THEA 4223. Scene Design Principles of theatrical design. Prerequisite, THEA 2223 or consent of instructor. Spring, odd.

THEA 4233. Advanced Makeup Design Hair styling and makeup design. Prerequisite, THEA 2233 or consent of instructor. Fall, even.

THEA 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.

THEA 4253. Theatre Management Study of the fundamentals of financial, promotional and regulatory procedures governing theatre management. Spring, odd.

THEA 4263. History of Theatre I From the Greek Period to the Renaissance Period. Fall, odd.

THEA 4273. History of Theatre II From the Renaissance Period to the Modern Period. Spring, even.

THEA 4283. Period Styles in Acting Study of form, structure, and techniques for period acting styles. May be repeated. Fall, odd.

THEA 4303. Stage Lighting Principles and practices of stage lighting and sound. Prerequisite, THEA 2223 or consent of instructor. Fall, even.

THEA 4313. Fundamentals of Playwriting Writing plays, including readings, exercises, and adaption. Prerequisite, THEA 1203 or consent of instructor. Fall, even.

THEA 4323. Stage Directing II Advanced scene work considering specifics such as rhythm, mood, conceptualizing and play style. Prerequisite, THEA 4203. Spring, odd.

THEA 4333. Advanced Acting Further studies in style, technique, and characterization. May be repeated once. Prerequisite, THEA 3263. Fall, even.

THEA 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.

THEA 436V. Internship in Theatre Combines relevant work experience with classroom theory. Demand.

THEA 437V. Special Problems Prerequisite, permission of the instructor. May be repeated twice with different topics. Demand.

THEA 4383. Senior Project A capstone course designed to showcase the graduating seniors achievements and accomplishments. Fall, Spring.

THEA 4393. Summer Children Theatre Performance The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 4403. Summer Children Theatre Technical The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 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

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 CRIMINOLOGY, SOCIOLOGY, AND GEOGRAPHY

Anthropology (ANTH)

- ANTH 2233. Introduction to Cultural Anthropology** Introduction to the concept of culture. Fall, Spring, Summer.
- ANTH 2243. Introduction of Physical Anthropology** Introduces primatology, human population genetics and micro evolution. Fall.
- ANTH 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.
- ANTH 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.
- ANTH 460V. Special Problems** Individually directed problems in Anthropology. Must be arranged with the professor and approved by department chair. TBA.

Criminology (CRIM)

- 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.
- CRIM 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.
- CRIM 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.
- CRIM 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.
- CRIM 3183. Institutional Corrections** An examination of the context, structure, and dynamics of local, state, and federal criminal confinement facilities. Fall.
- CRIM 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.
- CRIM 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.

- CRIM 3263. Criminology** Sociological patterns of crime and criminals, with emphasis on causes, effects, and prevention. Fall, Spring.
- CRIM 3323. Juvenile Delinquency** Causative factors in home, school, and community, extent of the problem, and methods of prevention and treatment. Fall.
- CRIM 4103. Criminal Justice Systems** General functions of the individual agencies and the duties and responsibilities of the individuals who perform these functions. Fall.
- CRIM 460V. Special Problems** Individually directed problems in Criminology. Must be arranged with the professor and approved by department chair. TBA.
- CRIM 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)

- GEOG 2613. Introduction to Geography** Emphasizes the physical and cultural patterns in the world. Fall, Spring, Summer.
- GEOG 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.
- GEOG 3613. Geography of the United States and Canada** Emphasizes the physical and cultural backgrounds of the United States and Canada. Spring, even.
- GEOG 3643. Introduction to Cultural Geography** Systematic examination of various cultures, especially their philosophies and dynamics of resource utilization and economic development. Spring, even.
- GEOG 3663. Geography of Africa** Fundamental contemporary issues that challenge Africans within the context of historical genesis. An emphasis will be placed on the social, economic, environmental and political dynamics of various regions of Africa. Fall.
- GEOG 3683. Economic Geography** Spatial distribution and interrelations of economic factors and forces and how they are affected by geographic factors. Spring, even.
- GEOG 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.
- GEOG 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.
- GEOG 3743. Introduction to Land Use Planning** Introduces the student to theoretical as well as practical aspects of land use planning, focusing on the spatial, economic, and political aspects of land use in both rural and urban settings. Demand.
- GEOG 3813. Introduction to Geographic Information Systems** Introduces students to Geographic Information systems concepts and techniques. Demand.
- GEOG 4113. Water Resources Planning** A study of the basic concepts of hydrology and the major issues associated with water resources planning and management. Demand.

- GEOG 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.
- GEOG 4313. Advanced Perspective in Historical Geography** Examines issues that are both chronological and spatial in nature including settlement patterns, migration, and population trends. Demand.
- GEOG 460V. Special Problems** Individually directed problems in Geography. Must be arranged with the professor and approved by department chair. TBA.
- GEOG 4613. Conservation of Natural Resources** Current problems associated with the conservation of natural resources. Demand.
- GEOG 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.
- GEOG 4633. Climatology** Climatic regions of the world; controlling factors of weather. Demand.
- GEOG 4643. Geography of Arkansas** Arkansas physical, cultural, and historical landscapes. Summer.
- GEOG 4683. Senior Seminar** The more important research methods in obtaining geographical information. Demand.
- GEOG 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.
- GEOG 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)

- SOC 1013. Making Connections Sociology** Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.
- SOC 2213. Principles of Sociology** Human society and social behavior. Fall, Spring, Summer.
- SOC 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.
- SOC 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.
- SOC 3213. Sociology of Intimate Relationships** Aspects of close social relationships, roles, power, love, conflict, and change. Fall, even.
- SOC 3223. Sociology of Marriage and the Family** Emphasizes the sociocultural factors influencing the structure and development of marriage and the family. Fall, Spring, Summer.

- SOC 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.
- SOC 3293. Social Behavior** Factors influencing behavior in social situations. Spring.
- SOC 3313. Sociology of Sexuality** Examines sexuality from a sociological perspective, focusing on the social construction of sexuality and the moral and political controversies that surround it. Demand.
- SOC 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.
- SOC 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.
- SOC 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.
- SOC 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.
- SOC 3381. Social Statistics Laboratory** Laboratory associated with SOC 3383. Two hours per week. Corequisite, SOC 3383. Fall, Spring.
- SOC 3383. Social Statistics** Pertinent concepts, techniques, methods, and approaches used in sociological investigation. Fall, Spring.
- SOC 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.
- SOC 4053. Today's Families Interdisciplinary Approaches** An interdisciplinary course designed to promote a critical approach to examining the family and its role in society. Prerequisite, 12 hours of coursework in Interdisciplinary Family Minor or instructor permission. Cross listed as ECH 4053, NRS 4053, PSY 4053. Spring.
- SOC 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. Dual listed SOC 4063. Fall, odd.
- SOC 4073. Sociology of Family Violence** An overview of the ways in which sociologists examine, in theory and method, the dynamics and resolutions of family violence. Dual listed as SOC 5073. Prerequisite, SOC 2213. Spring.
- SOC 4203. Social Deviance** Describes and explains the violation of social norms. Spring.
- SOC 4213. The Sociology of Childhood and Adolescence** Focuses upon how the family life cycle influences the sociocultural experiences of children and adolescents. Summer.

- SOC 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.
- SOC 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.
- SOC 4243. Social Theory** Social thinking through the ages. Fall.
- SOC 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.
- SOC 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.
- SOC 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.
- SOC 4293. Methods of Social Research** Practical applications of sociological research techniques. Fall, Spring.
- SOC 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.
- SOC 4333. Sociology of Youth Subcultures** Sociological study of youth subcultures from American, British and new subcultural perspectives, plus a range of historical and contemporary youth subcultures. Also covers various analytic topics such as identity, resistance, style, music, response, and consumption. Prerequisite, SOC 2213. Demand.
- SOC 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.
- SOC 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.
- SOC 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.
- SOC 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.

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- SOC 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.
- SOC 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

Method and Materials Teaching English (EDEN)

- 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.

English (ENG)

- ENG 0002. Writing Tutorial** Intensive, individualized work on the basic strategy, organization, diction, and grammar of the collegiate essay. Fall, Spring.
- ENG 0103. Composition for Non-Native Speakers I** Comprehensive advanced grammar, sentence structure, and vocabulary for students scoring under 500 on the TOEFL. Fall, Spring.
- ENG 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.
- ENG 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.
- ENG 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.
- ENG 1023. Making Connections Humanities** Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.
- ENG 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.
- ENG 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.

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ENG 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.

ENG 2103. Introduction to Poetry and Drama Poetry and drama with emphasis on analytic reading and writing skills. Fall, Spring.

ENG 2113. Introduction to Fiction Short fiction and the novel with emphasis on analytic reading and writing skills. Fall, Spring.

ENG 3003. Advanced Composition Emphasis on the development of structure and style in the literary essay and on research skills. Spring.

ENG 3013. Practical Writing Emphasis on practical writing skills applicable to students in all disciplines. Will not apply to English degree requirements. Fall, Spring.

ENG 3023. Creative Writing Instruction and practice in the writing of poetry, fiction, and drama. Fall.

ENG 3043. Technical Writing Forms and techniques of technical writing. Spring, odd.

ENG 3223. British Literature to 1800 Major British authors, genres, and movements from the beginning to the end of the Neoclassical period. Fall, even.

ENG 3233. Shakespeare Introduction to the works of Shakespeare. Fall.

ENG 3243. British Drama to 1800 Drama in the Middle Ages, Renaissance, Restoration, and Neoclassical periods, including at least three Shakespeare plays. Spring, odd.

ENG 3263. British Literature Since 1800 Major British authors, genres, and movements from the Romantic period to the present. Fall, odd.

ENG 3293. British Novel Representative British novels. Spring, even.

ENG 3323. American Literature to 1865 Major American authors, genres, and movements from the beginning through the Civil War. Fall, even.

ENG 3363. American Literature Since 1865 Major American authors, genres, and movements from the Civil War to the present. Fall, odd.

ENG 3373. Regional American Literature Writings from a selected region of the United States. Fall, odd.

ENG 3393. American Novel Representative American novels. Spring, odd.

ENG 3423. Contemporary Prose Global fiction and nonfiction from 1945 to the present, including British or American and world authors. Fall, even.

ENG 3433. Modern and Contemporary Drama Global drama from Ibsen to the present, including British or American and world authors. Spring, even.

ENG 3443. Contemporary Poetry Global poetry from 1945 to the present, including British and American and world authors. Fall, odd.

ENG 3453. World Literature Selected authors, genres, movements, or themes in world literature. Fall, even.

ENG 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.

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ENG 3482. Special Projects Practicum in the teaching of composition for the preprofessional. Prerequisite, consent of instructor. Fall.

ENG 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.

ENG 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.

ENG 3583. Literature for Adolescents Fiction, poetry, and drama which meet the needs of upper elementary, middle school, and high school students. Fall.

ENG 3613. Introduction to Folklore Collection, classification, and analysis of folklore, with special emphasis on oral literature. Fall.

ENG 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.

ENG 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.

ENG 3643. African-American Folklore A study of African American culture through New World black traditions, including oral narratives and folksongs. Fall, even.

ENG 4023. Advanced Creative Writing Writing poetry, fiction, or drama. Prerequisite, ENG 3023 or permission of instructor. Spring.

ENG 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.

ENG 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.

ENG 4063. Comparative Modern Grammars Major grammatical systems, traditional, structural, and transformational. Spring.

ENG 4083. Introduction to Linguistics Phonetics, phonemics, morphology, syntax, and semantics. Fall, odd.

ENG 4103. Introduction to Contemporary Literary Theory An introduction to the major theoretical approaches to literary criticism, ranging from formalism through poststructuralism. Fall, odd.

ENG 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.

ENG 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.

ENG 4213. Medieval Literature English literature during the Middle Ages. Selected continental writings may be included. Spring, odd.

ENG 4223. Milton An intensive study of selected works of John Milton. Fall, odd.

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- ENG 4233. Sixteenth-Century Literature** English literature during the sixteenth century. Selected continental writings may be included. Spring, even.
- ENG 4243. Seventeenth-Century Literature** English literature during the seventeenth century. Selected continental writings may be included. Fall, even.
- ENG 4253. Restoration and Neoclassical Literature** English literature during the late seventeenth and eighteenth centuries. Selected continental writings may be included. Spring, even.
- ENG 4263. Romantic Literature** Major currents and figures of the English Romantic movement. Selected background writings may be included. Fall, even.
- ENG 4273. Victorian Literature** Major currents and figures in the Victorian Age. Selected background writings may be included. Spring, odd.
- ENG 4283. Modern British Literature** English literature in the twentieth century. Selected background writings may be included. Fall, odd.
- ENG 4333. American Romanticism** American literature in the first half of the nineteenth century. Spring, odd.
- ENG 4353. American Realism and Naturalism** American literature in the second half of the nineteenth century and the early twentieth century. Spring, even.
- ENG 4363. African-American Literature** Survey of African American literature from its beginnings to the present. Spring, odd.
- ENG 4373. Modern American Literature** American literature since World War I. Spring, even.
- ENG 4383. Minority Literature** Selected works of American minority writers from such groups as Blacks, Native Americans, or Chicanos. Fall, even.
- ENG 4463. Special Topics** Intensive study of individual authors, limited periods, movements, or specific theme. Spring, even.
- ENG 4473. Women Writers** A study of literature written by women. Spring, odd.
- ENG 4613. Ballad and Folksong** Analysis and interpretation of oral poetry, especially that of the English speaking world. Fall, odd.
- ENG 4623. Mythology** Content, structure, and belief systems of various mythologies from the perspectives of selected mythographers. Spring, odd.
- ENG 4633. Material Folk Culture** The analysis and interpretation of traditional skills, services, and art and craft objects provided in folk societies. Spring, even.
- ENG 4643. Independent Fieldwork in Folklore** Development and implementation of a research agenda, using standard field methods in folklore studies such as the tape recorded interview and participant observation. Prerequisites, ENG 3613 and permission of instructor. Fall, Spring.
- ENG 4703. Persuasive Writing** Practice in reading and writing persuasive texts, with study of theories relating to rhetoric and persuasion. Fall.

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Philosophy (PHIL)

- 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.
- PHIL 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.
- PHIL 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.
- PHIL 2403. Introduction to Cognitive Science** Cognitive Science is a wide ranging area of study focusing on cognition from a variety of perspectives. Spring.
- PHIL 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.
- PHIL 3223. History of Modern Philosophy** Development of Western philosophy from the Renaissance to the present. Spring, odd.
- PHIL 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.
- PHIL 3403. Theory of Knowledge** Basic questions about the nature of human knowledge with emphasis on truth, evidence, and justification. Fall, even.
- PHIL 3423. Philosophy of Science** Provides critical examination of methods and presuppositions of science. Fall, odd.
- PHIL 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.
- PHIL 3623. Eastern Philosophy** Major non-western philosophical traditions including Hinduism, Taoism, Buddhism, and Confucianism. Spring, even.
- PHIL 3703. Philosophy of Law** Conceptual and ethical questions relating to law and philosophy, including analytical jurisprudence, the justification of punishment, etc. Spring, odd.
- PHIL 3713. Ethics in the Health Professions** Examination of the moral and conceptual issues raised in the practice of medicine and the attendant medical technology. Spring.
- PHIL 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.
- PHIL 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.
- PHIL 4213. Contemporary Philosophy** Major trends in contemporary philosophy, particularly British Empiricism, European Existentialism, and American Pragmatism. Spring, odd.

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- PHIL 4403. Metaphysics** Introduction to basic issues in analytic metaphysics including philosophy of mind, personal identity, determinism, realism, supervenience, and modalities. Fall, odd.
- PHIL 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.
- PHIL 4703. Contemporary Ethical Issues** Examination of important recent theories of the nature or content of moral language, judgments, and norms. Fall, even.
- PHIL 4723. Aesthetics** The nature of art, designed to help students respond intelligently to works of art. Fall, even.
- PHIL 4733. Environmental Ethics** An investigation of the ethical dimensions of environmental issues. Prerequisite, PHIL 1103. Fall, odd.
- PHIL 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.
- PHIL 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.
- PHIL 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.
- PHIL 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

Methods and Materials Teaching Social Studies (EDSS)

- 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.

History (HIST)

- HIST 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.
- HIST 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.
- HIST 1023. World Civilization Since 1660** WORLD AND EUROPEAN HISTORY. Continuation of HIST 1013, with emphasis on the past three centuries. Fall, Spring, Summer.
- HIST 2763. The United States to 1876** UNITED STATES HISTORY. Social, economic, and political developments from Columbus to the end of Reconstruction. Fall, Spring, Summer.
- HIST 2773. The United States since 1876** UNITED STATES HISTORY. Social, economic, and political developments from Reconstruction to the present. Fall, Spring, Summer.
- HIST 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.
- HIST 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.
- HIST 3123. Latin America, The Colonial Period** WORLD AND EUROPEAN HISTORY. From the preColumbian Indian civilization to the era of independence. Fall, odd.
- HIST 3133. Latin America, The National Period** WORLD AND EUROPEAN HISTORY. Development of Latin American nation states. Spring, even.
- HIST 3173. Classical Mediterranean Civilization** WORLD AND EUROPEAN HISTORY. Major developments of the GrecoRoman civilizations pertaining to our present civilization. Fall, even.
- HIST 3183. Medieval Europe** WORLD AND EUROPEAN HISTORY. Europe from 500 to 1500 with emphasis on social institutions. Spring, odd.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 3223. Renaissance and Reformation Europe** WORLD AND EUROPEAN HISTORY. Political, economic, and cultural change in postmedieval Europe, 1350 to 1600. Spring, odd.
- HIST 3233. Age of Science and Reason** WORLD AND EUROPEAN HISTORY. Europe between the sixteenth and eighteenth centuries. Spring, even.

- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 3473. United States Labor History** UNITED STATES HISTORY. The rise and progress of labor organizations and their impact on American life. Fall, even.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 3603. The American South** UNITED STATES HISTORY. The South in American history from Jamestown through the twentieth century. Fall, odd.
- HIST 3623. The American West** UNITED STATES HISTORY. The American West from the Lewis and Clark expedition to the closing of the frontier. Fall, even.
- HIST 3653. The American Indian** UNITED STATES HISTORY. History and culture of the American Indian and the role of government in Indian affairs. Spring, even.

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- HIST 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.
- HIST 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.
- HIST 3693. United States Women's History** UNITED STATES HISTORY. The role of women in United States history from 1600 to the present. Spring, odd.
- HIST 3743. The Urban Revolution in America** UNITED STATES HISTORY. Evolution of the American city and its impact on society. Spring, even.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 4113. Imperial Russia** WORLD AND EUROPEAN HISTORY. Russian history to the Revolution of 1917. Fall, odd.
- HIST 4123. Soviet Russia** WORLD AND EUROPEAN HISTORY. The U.S.S.R. 1917 to present. Spring, even.
- HIST 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.
- HIST 4143. The Rise of Modern China** WORLD AND EUROPEAN HISTORY. Major developments in Chinese history with emphasis on the twentieth century. Fall, odd.
- HIST 4153. The Rise of Modern Japan** WORLD AND EUROPEAN HISTORY. Major developments in Japanese history with emphasis on the twentieth century. Spring, odd.
- HIST 4213. History of England, 55 BC to AD 1689** WORLD AND EUROPEAN HISTORY. The social, political, and ecclesiastical history of England from Julius Caesars reconaissance to the Glorious Revolution. Fall, even.
- HIST 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.
- HIST 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

- HIST 4263. Early Christianity** WORLD AND EUROPEAN HISTORY. Growth and influence of Christianity in Mediterranean and European lands, to 600 C.E. Dual listed HIST 5263. Fall, even.
- HIST 4273. History of Mexico** WORLD AND EUROPEAN HISTORY. Emphasizes contemporary developments and relations with the United States. Spring, odd.
- HIST 4303. The Idea of History** GENERAL HISTORY. Study of the idea of history in its chronological, practical, and historiographical manifestations. Spring.
- HIST 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.
- HIST 4413. Colonial North America** UNITED STATES HISTORY. Colonial development from Jamestown through the American Revolution. Fall, even.
- HIST 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.
- HIST 4453. United States Civil War and Reconstruction** UNITED STATES HISTORY. The Civil War period and the resulting problems of Reconstruction. Fall, even.
- HIST 4463. U.S. Gilded Age/Progressive Era** UNITED STATES HISTORY. Explores the dramatic economic, social, and political upheavals of 1880 to 1917. Spring, odd.
- HIST 4473. 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.
- HIST 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.
- HIST 4553. History of Medicine** WORLD AND EUROPEAN HISTORY. World-wide survey of medicine, disease, and health from prehistoric times to the present. Fall, odd.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.
- HIST 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.

The online bulletin can be accessed at <http://registrar.astate.edu/bulletin.php>

- HIST 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)

- AR 1036. Accelerated Elementary Arabic** Pronunciation and basic grammar, simple speaking and listening comprehension skills, and cultural understanding of the Arabic world. Fall.
- AR 2036. Accelerated Intermediate Arabic** Further development of listening and speaking skills, with increasing emphasis on reading and writing. Continuation of AR 1036. Spring.

Chinese (CHIN)

- CHIN 1036. Accelerated Elementary Chinese** Pronunciation and basic grammar, simple speaking and listening comprehension skills, and cultural understanding of the Mandarin Chinese speaking areas. Fall.
- CHIN 2036. Accelerated Intermediate Chinese** Continuation of CHIN 1036. Further development of listening and speaking skills, with increasing emphasis on reading and writing. Spring.

Methods and Materials for Languages (EDLA)

- 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.

For up-to-date Bulletin information, visit <http://registrar.astate.edu/bulletin.php>

French (FR)

- 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.
- FR 1023. Elementary French II** Continuation of FR 1013. Spring.
- FR 1036. Accelerated Elementary French I and II** Intensive one semester course that covers the material of instruction designed for a regular academic year. Fall.
- FR 2013. Intermediate French I** Continues the development of the basic language skills, with increasing emphasis on the written elements of the language. Continuation of FR 1023 or FR 1036. Fall.
- FR 2023. Intermediate French II** Continuation of FR 2013. Prerequisite, FR 2013 or consent of department chair. Spring.
- FR 2036. Accelerated Intermediate French I and II** Intensive one semester course in Intermediate French designed to cover the material programmed for the regular second year of French. Continuation of FR 1036 or FR 1023. Spring.
- FR 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.
- FR 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.
- FR 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.
- FR 3203. Advanced French Conversation** A continuation of FR 3183. Prerequisite, FR 3183. Spring, odd.
- FR 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.
- FR 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.
- FR 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.
- FR 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.

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- FR 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.
- FR 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.
- FR 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.
- FR 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.
- FR 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.
- FR 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. Demand.
- FR 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 of credit for majors and up to three hours of credit for minors. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Demand.

German (GER)

- GER 1013. Elementary German I** The listening, speaking, reading, writing approach to develop basic language skills. Fall.
- GER 1023. Elementary German II** Continuation of GER 1013. Spring.
- GER 2013. Intermediate German I** Continues the development of the basic language skills, with increasing emphasis on the written language. Continuation of GER 1023. Fall.
- GER 2023. Intermediate German II** Continuation of GER 2013. Prerequisite, GER 2013 or consent of department chair. Spring.
- GER 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.
- GER 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.
- GER 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.

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- GER 3183. German Conversation** Elements of spoken German with emphasis on the modern idiom. Prerequisite, GER 2023 or consent of instructor. Fall, even.
- GER 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.
- GER 480V. Readings in German** Independent readings for advanced students only. Limited to three hours. Must have consent of department chair. Demand.

International Studies (INST)

- INST 4503. Special Topics** Focused treatment of an issue, theme, or problem related to international history, politics, culture, or related area. Demand.
- INST 4803. Independent Study** Independent readings for advanced students only. Limited to three hours. Must have consent of department chair. Demand.

Spanish (SPAN)

- SPAN 1013. Elementary Spanish I** The listening, speaking, reading, writing, approach to develop basic language skills. Fall, Spring, Summer.
- SPAN 1023. Elementary Spanish II** Continuation of SPAN 1013. Fall, Spring, Summer.
- SPAN 1036. Accelerated Elementary Spanish I and II** Intensive one semester course that covers the material of instruction designed for a regular academic year. Fall, Spring.
- SPAN 2013. Intermediate Spanish I** Further development of basic language skills, with increasing emphasis on the written elements of the language. Continuation of SPAN 1023. Fall, Spring, Summer.
- SPAN 2023. Intermediate Spanish II** Continuation of SPAN 2013. Prerequisite, SPAN 2013 or consent of department chair. Fall, Spring, Summer.
- SPAN 2036. Accelerated Intermediate Spanish I and II** Intensive one semester course in Intermediate Spanish designed to cover the material programmed for the regular second year of Spanish. Fall, Spring.
- SPAN 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.
- SPAN 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.
- SPAN 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.
- SPAN 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.

- SPAN 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.
- SPAN 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.
- SPAN 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.
- SPAN 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.
- SPAN 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.
- SPAN 4413. Survey of Peninsular Spanish Literature** An intensive study of the principle literary movements and genres in Spain from the Middle Ages to the Generation of 98. Prerequisite, SPAN 3413 or consent of instructor. Fall, odd.
- SPAN 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.
- SPAN 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. Fall, even.
- SPAN 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, odd.
- SPAN 460V. Special Project in Teaching** Independent study of selected professional topics in language teaching. May not be used to satisfy any major requirements. May be repeated for up to six hours credit. Prerequisite, consent of department chair. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Demand.
- SPAN 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.
- SPAN 480V. Independent Study** 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)

TILA 4825. Language Teaching Internship in the Secondary School Tensesemester hours. Full semester teaching internship. Fall, Spring.

TILA 4826. Language Teaching Internship in the Secondary School 12semester hours. Full semester teaching internship. Fall, Spring.

DEPARTMENT OF POLITICAL SCIENCE

POSC 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.

POSC 1303. Introduction to Model United Nations COMPARATIVE POLITICS. Preparation for and participation in model United Nations. Fall, Spring.

POSC 2103. Introduction to United States Government AMERICAN POLITICS. The constitution, government, and politics of the United States. Fall, Spring, Summer.

POSC 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.

POSC 3033. Legal Research, Writing and Advocacy POLITICAL METHODOLOGY. Legal research and terminology, including research methodology. Development of research skills through use of legal research tools (law digests, encyclopedias, reporters, statutes, and other library materials), legal brief and memo writing and oral argumentation. Demand.

POSC 3043. Judicial Process and Legal Reasoning POLITICAL METHODOLOGY. Introduction to administration of justice, including the effects of process on justice goals, due process, and fundamental fairness. Includes sources and foundations of U.S. law, common law 20th century legal movements, criminal, civil, administrative, and mediation/arbitration and statutory interpretation. Demand.

POSC 3113. American Municipal Government AMERICAN POLITICS. Types of governments in municipalities of the United States. Fall, Spring.

POSC 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.

POSC 3133. Political Parties and Interest Groups AMERICAN POLITICS. American political parties and interest groups. Spring.

POSC 3143. State and Local Government AMERICAN POLITICS. An examination of the powers and institutions and policies of state and local governments. Fall, Spring.

POSC 3153. American Executive Process AMERICAN POLITICS. Governmental executives and executive processes in the American political system. Spring, even.

POSC 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.

POSC 3173. Civil Liberties AMERICAN POLITICS. Judicial and statutory interpretations of the fundamental liberties contained in the U.S. Constitution. Spring.

POSC 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.

POSC 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.

POSC 3203. Introduction to Comparative Politics COMPARATIVE POLITICS. Surveys the field of comparative politics, with case studies of selected countries. Fall, odd.

POSC 3213. African Political Systems COMPARATIVE POLITICS. The government and politics of primarily subSaharan Africa, involves study of the people as well as their political institutions. Fall, even.

POSC 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.

POSC 3233. Chinese Political System COMPARATIVE POLITICS. The Chinese government, the Chinese Communist Party, socioeconomic change, and Chinese foreign policy. Fall, odd.

POSC 3303. Introduction to International Politics COMPARATIVE POLITICS. Various approaches to the study of international politics. Fall, even.

POSC 3313. American Foreign Policy COMPARATIVE POLITICS. Development, formation, goals, administration, and realities of American foreign policy in modern times, with emphasis on current issues. Spring.

POSC 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.

POSC 3413. Classical and Medieval Political Theory POLITICAL THEORY. Classical Greek and Christian forms of political theory. Fall, odd.

POSC 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.

POSC 3433. Political Ideologies POLITICAL THEORY. Contemporary political ideas and movements, including liberalism, conservatism, anarchism, fascism, communism, and nationalism. Fall, even.

POSC 3503. Principles of Public Administration PUBLIC ADMINISTRATION. Survey of the field of public administration and its problems. Spring.

POSC 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.

- POSC 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.
- POSC 4113. American Legislative Process** AMERICAN POLITICS. Structure and organization of legislative bodies, with a detailed study of legislative processes. Spring, odd.
- POSC 4123. Women in Politics** AMERICAN POLITICS. An examination of the interrelationship of gender, politics, and popular culture. Spring, odd.
- POSC 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 man made disasters. May be credited toward Minor in Homeland Security and Disaster Preparedness. Spring, odd.
- POSC 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.
- POSC 4223. Middle Eastern Political Systems** COMPARATIVE POLITICS. Major Middle Eastern political systems, with concentration on their common characteristics and major differences. Spring, odd.
- POSC 4313. International Organization** INTERNATIONAL POLITICS. Development, structure, and politics of international organizations such as the United Nations. Fall, odd.
- POSC 4413. Modern Political Theory** POLITICAL THEORY. Writings of modern political philosophers such as Machiavelli, Hobbes, and Rousseau. Spring.
- POSC 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.
- POSC 4503. Introduction to Public Policy Studies** PUBLIC ADMINISTRATION. Provides a framework for understanding the fundamentals of the policymaking process. Fall.
- POSC 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.
- POSC 4523. Public Personnel Administration** PUBLIC ADMINISTRATION. Policies, methods, and techniques utilized in public personnel. Fall.
- POSC 4533. Environmental Law and Administration** PUBLIC ADMINISTRATION. Overview of current environmental law, its administration and enforcement. Demand.
- POSC 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.

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- POSC 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.
- POSC 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

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

Communication Disorders (CD)

- CD 1003. Making Connections Communication Disorders** Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating communication disorder majors. Fall.
- CD 1103. Voice and Articulation Improvement** Designed to aid students experiencing difficulty with oral communication because of one or more of the following reasons, missing final consonants, misarticulation, mispronunciations, improper grammar, monotone speech, harsh, nasal, or breathy voice, not using pitch inflections to carry meaning, and speaking too fast. Demand.
- CD 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 BIO 2003 and 1 Human Anatomy and Physiology I and Lab prior to CD 2104 Anatomy and Physiology of Communication. Fall, Spring.
- CD 2203. Phonetics** Emphasis given to analysis of the formation and production of spoken English. Training in the use of the International Phonetic Alphabet. Fall, Spring.
- CD 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.
- CD 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.
- CD 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.

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- CD 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.
- CD 3303. Normal Language Development** Normal development of the oral communication process emphasizing phonological and syntactical development of children. Spring.
- CD 3402. Introduction to Manual Communication** An introductory course in American Sign Language and signing Exact English. Emphasis on acquisition of vocabulary and development of receptive language skills. Fall, Spring.
- CD 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.
- CD 3653. Clinical Interactions in Communication Disorders** The purpose of this course is to provide students with an understanding of the counseling process related to the delivery of services in communication disorders. Summer.
- CD 3703. Clinical Management Techniques in Communication Disorders** This course provides students with knowledge regarding principles and procedures used in the management of individuals with communication disorders including the identification of target behaviors, target measurement and reinforcement practices to effect change in behavior. Registration restricted to Communication Disorders majors. Spring.
- CD 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.
- CD 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.
- CD 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.
- CD 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.
- CD 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.
- CD 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.

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- CD 4403. Aural Rehabilitation** Method of instruction in auditory training, speech reading, and hearing aid orientation. Prerequisite, CD 3503 or permission of instructor. Spring.
- CD 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.
- CD 4502. Advanced Manual Communication** An advanced course designed to continue development of basic language skills in American Sign Language and Signing Exact English. Prerequisite, Permission of instructor. Spring.
- CD 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.
- CD 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.
- CD 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.
- CD 4755. Practicum in Communication Disorders** Clinical experience with clients with speech, language, and acoustical disabilities. Must meet requirements for student teaching. Demand.
- CD 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.
- CD 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.
- Clinical Laboratory Science (CLS)**
- CLS 1003. Making Connections Clinical Laboratory Science** Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating various health professions and how laboratory professionals interact with other health care professionals. Fall.
- 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.

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CLS 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.

CLS 1521. Urine and Body Fluid Analysis Theory and analysis of urine and body fluids, excluding blood, in normal and pathological states. Techniques of analysis include physical, chemical, and microscopic procedures. Corequisite, CLS 1531. Spring.

CLS 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.

CLS 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.

CLS 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.

CLS 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.

CLS 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.

CLS 2531. Medical Microbiology I Laboratory Performance of laboratory procedures necessary to function in the microbiology section of a clinical laboratory. Prerequisite, BIO 2101 and BIO 2103. Corequisite, CLS 2533. Fall.

CLS 2533. Medical Microbiology I Study of pathology, biochemistry, and identification of organisms causing infectious diseases in humans. Includes collection and processing of specimens. Prerequisite, BIO 2103 and BIO 2101. Corequisite, CLS 2531. Fall.

CLS 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.

CLS 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.

CLS 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.

CLS 2561. Immunochemistry I Laboratory Performance of procedures necessary to function in a clinical blood bank. Prerequisites, CLS 2523, CLS 2521, CLS 2573, CLS 2571, BIO 2223 and BIO 2221. Corequisites, CLS 2563. Spring.

CLS 2563. Immunochemistry I Discussion of the principles involved in compatibility testing, antigen and antibody identification, donor blood acquisition and preparation, and a basic discussion of relevant diseases. Prerequisites, CLS 2523, CLS 2521, CLS 2573, CLS 2571, BIO 2223 and BIO 2221. Corequisite, CLS 2561. Spring.

CLS 2571. Clinical Immunology and Serology Laboratory Performance of laboratory procedures necessary to function in the serology section of a clinical laboratory. Prerequisites, BIO 2201 and BIO 2203. Corequisite, CLS 2573. Fall.

CLS 2573. Clinical Immunology and Serology Immunity in health and disease will be discussed. Provides theoretical basis of serological diagnostic procedures including techniques of test performance. Prerequisites, BIO 2201 and BIO 2203. Corequisite, CLS 2571. Fall.

CLS 3122. Research Concepts for the Clinical Laboratory Scientist To introduce the CLS student to research process and develop problem solving skills. To provide clinical experiential opportunities to critically evaluate clinical laboratory literature and apply this knowledge to the clinical laboratory setting. This course is designed specifically for the CLS major. Prerequisites, Junior status and CLS 3522. Spring.

CLS 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.

CLS 3221. Hematology II Laboratory Performance of advanced laboratory procedures, recognition of cells and lab values related to hematology disorders, development of cases related to specified hematology disorders. Prerequisites, CLS 2523 and CLS 2521. Corequisite, CLS 3223. Fall.

CLS 3223. Hematology II In depth discussion of hematologic disorders, causes, laboratory results, and treatment. Prerequisites, CLS 2521 and CLS 2523. Corequisite, CLS 3521. Fall.

CLS 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. Enrollment restricted to CLS, BS students. Prerequisite, Junior status. Fall.

CLS 3511. Medical Parasitology Laboratory Performance of laboratory procedures used in the recovery and identification of parasites from tissues, exudates, and body fluids. Corequisite, CLS 3512. Summer.

CLS 3512. Medical Parasitology Discussion of acquisition, pathogenesis, and epidemiology of parasitic infections, as well as the diagnosis of parasitic infections based on symptomatology and the microscopic examinations of tissues, exudates, and body fluids. Corequisite, CLS 3511. Summer.

CLS 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 3511, CLS 3512, CLS 2531, CLS 2533. Fall, Spring, Summer.

CLS 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.

- CLS 3524. Clinical Practicum IV** Enhances the learning experiences in serology and blood bank techniques. Students will become members of the health care team under the direction of the clinical staff. Prerequisites, CLS 2561, CLS 2563, CLS 2571, CLS 2573. Fall, Spring, Summer.
- CLS 4013. Molecular Diagnostics** This course will identify important aspects of molecular based hematology, oncology testing, microbiology testing, and pharmacogenetics, as well as addressing proteomics and genomics in the clinical laboratory environment. Permission of instructor required. Prerequisites, CLS 2571, CLS 2573, CLS 2531, CLS 2533, CHEM 3101, and CHEM 3103. Spring.
- CLS 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.
- CLS 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, acid and base balance, enzymes, and other routine assessments. Prerequisites, CHEM 1013, CHEM 1011, CLS 2543, CLS 2541. Corequisite, CLS 4113. Fall.
- CLS 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.
- CLS 4174. Clinical Practicum I** Clinical laboratory experience in chemistry and special chemistry. A special project is required. Enrollment restricted to CLS majors. Instructor permission is required. Prerequisite, CLS 2541 and CLS 2543. Fall, Spring, Summer.
- CLS 4184. Clinical Practicum II** Clinical laboratory experience in hematology and coagulation and urinalysis. Prerequisite, admission to clinical program. Enrollment restricted to CLS majors. Instructor permission is required. Prerequisites, CLS 2521, CLS 2523. Fall, Spring, Summer.
- CLS 4194. Clinical Practicum III** Clinical laboratory experience in microbiology and parasitology. A special project is required. Enrollment restricted to CLS majors. Permission of instructor is required. Prerequisite, CLS 2531 and CLS 2533. Fall, Spring, Summer.
- CLS 4204. Clinical Practicum IV** Clinical laboratory experience in immunohematology and serology. A special project is required. Enrollment restricted to CLS majors. Permission of instructor required. Prerequisites, CLS 2571, CLS 2573, CLS 2561, and CLS 2563. Completion of CLS 4331 and CLS 4333 is strongly recommended. Fall, Spring, Summer.
- CLS 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.
- CLS 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. Not open to CLS or CLT students. Spring.
- CLS 4214. Clinical Practicum V** Clinical laboratory experience in management and clinical electives. A special project is required. Enrollment restricted to CLS majors. Prerequisite, CLS 4174, CLS 4184, CLS 4194, CLS 4204. Permission of Instructor required. Fall, Spring, Summer.

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- CLS 4331. Immunohematology II Laboratory** Performance procedures necessary to solve intermediate to advanced problems in a clinical blood bank. Prerequisites, CLS 2561, CLS 2563. Corequisite, CLS 4333. Spring.
- CLS 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 2561, CLS 2563. Corequisite, CLS 4331. Spring.
- CLS 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.
- CLS 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.

Health Professions (HP)

- 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.
- HP 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.
- HP 3003. General Gross Anatomy** The regional topographic study of human gross anatomy using lecture, laboratory, discussion, and prosected cadavers. Emphasis is placed on surface anatomy, musculoskeletal and neuromuscular systems. Clinical correlations are highlighted. Lecture 2 hours per week. Laboratory 2 hours per week. 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. Prerequisites, BIO 2203 and BIO 2201, or BIO 3223 and BIO 3221. Fall, Spring.
- HP 3413. Cultural Competence in the Health Professions** Self assessment of awareness, knowledge, sensitivity and acceptance of the importance of cultural issues in a culturally diverse health care environment, definition and components of culture, cultural values, cultural competence, health and healing traditions, transcultural communication, fostering cultural competence in colleagues. Fall, Spring.
- HP 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.
- HP 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, minimum of 60 hours. Summer.

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Physical Therapy (PT)

- PT 1013. Making Connections Physical Therapy** Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section is designed for students preparing for physical therapy or physical therapist assistant professional education with a focus on the profession of physical therapy in overall health care. Fall.
- 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.
- PT 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.
- PT 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)

- 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.
- PTA 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.
- PTA 2213. Musculoskeletal Physical Therapy** 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.
- PTA 2223. Physical Agents and Massage** Basic principles and techniques of massage and application of modalities are presented. An investigation into the risk factors and pathophysiological considerations associated with integumentary diseases and conditions as well as aseptic technique and universal precautions is provided. PTA courses are only open to students admitted to the professional program. Fall.
- PTA 2233. Neuromuscular Physical Therapy 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.

- PTA 2243. Cardiopulmonary Physical Therapy** 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.
- PTA 2252. Clinical Education I** Five 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. Fall.
- PTA 2303. Adult Neuromuscular Physical Therapy 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.
- PTA 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.
- PTA 2333. Clinical Education II** Five 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. Spring.
- PTA 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. Spring.
- PTA 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.

Radiologic Sciences (RS)

- 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.
- RS 3133. Radiologic Sectional Anatomy** Radiologic concepts and applications of sectional anatomy including transverse, sagittal and coronal sections of all body areas. Prerequisite, BIO 2203 and BIO 2201. Fall, Spring, Summer.
- RS 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.

- RS 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.
- RS 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.
- RS 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, Spring, Summer.
- RS 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.
- RS 4333. Radiologic Education Concepts** An examination of various educational principles and methods appropriate for instruction in radiologic technology educational programs. Particular emphasis will be placed on the competency based approach to instruction and JRCERT guidelines. Pre or corequisite, PSY 3703 or permission of program director. Spring.
- RS 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, Spring.
- RS 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. Demand.
- RS 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.
- RS 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.
- RS 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.
- RS 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.
- RS 4532. Mammography Procedures and Instrumentation** This course is designed to introduce the student to the technical and procedural aspects of mammography. Various aspects of mammography, breast anatomy, patient interaction and exam procedures will be covered. Spring.
- RS 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.
- RS 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.
- RS 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.
- RS 4632. Computed Tomography Procedures** Advanced concepts and applications of the various procedures performed and equipment used in the computed tomography suite. Emphasizes the understanding of the equipment and the performance of all procedures. Fall, odd.
- RS 4641. Computed Tomography Clinical Education I** The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in computed tomography. Prerequisites, Good standing in the Radiologic Sciences program. Fall, Spring, Summer.
- RS 4652. Computed Tomography Clinical Education II** The course will provide advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in computed tomography. Prerequisites, RS 4641. Fall, Spring, Summer.
- RS 4713. Magnetic Resonance Imaging Physics and Instrumentation** This course provides equipment instrumentation information for magnetic resonance imaging studies. Prerequisites, None. Fall, even.
- RS 4733. 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.
- RS 4751. Magnetic Resonance Imaging Clinical Education I** The course will provide level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in magnetic resonance imaging. Prerequisites, Good standing in the Radiologic Sciences program. Fall, Spring, Summer.
- RS 4762. Magnetic Resonance Imaging Clinical Education II** The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in magnetic resonance imaging. Prerequisites, RS 4751. Fall, Spring, Summer.
- RS 4852. Advanced Radiologic Pathophysiology I** This course is an intensive study of the radiographic manifestations of diseases that affect the musculoskeletal and respiratory systems, excluding neoplasms. Emphasis is on physiologic changes evident in images and differentiating which imaging modalities are most sensitive in detecting these changes. Fall, Summer.
- RS 4862. Advanced Radiologic Pathophysiology II** This course is an intensive study of the radiographic manifestations of neoplasms and diseases that affect vascular systems. Emphasis is on physiologic effects of neoplasms and vascular system diseases and image manifestations of these effects. Spring, Summer.

Magnetic Resource Imaging (RSMR)

- RSMR 4702. Introduction to MR Imaging** Provides knowledge of patient care and assessment, imagining contraindications, contrast agents, introduction to MRI and MRI safety, cultural diversity, infection control, interpersonal communication, and body mechanics. Prerequisites, Admission to the MRI program. Fall.
- RSMR 4703. MRI Instrumentation** A study of the equipment used in production of the MR signal and image, specific coil designs, quality assurance measures, and equipment safety. Prerequisite, Admission to the MRI program. Fall.
- RSMR 4712. Imaging Information Management** Explains the functioning of computers and computer concepts in medical imaging. Topics covered are HIPAA, PACS, and RIS in MRI and the imaging department. Prerequisite, Acceptance into the MRI program. Spring.
- RSMR 4723. MRI Procedures I** Provides knowledge of anatomy, pathology, scanning protocols, contrast administration, and contraindications for magnetic resonance imaging of the head, spinal column, and musculoskeletal system. Prerequisites, Acceptance into the MRI program. Fall.
- RSMR 4733. MRI Procedures II** Provides knowledge of anatomy, pathology, scanning protocols, contrast administration, and contraindications for magnetic resonance imaging of the abdomen, pelvis, and musculoskeletal system. Prerequisite, acceptance into the MRI program. Spring.
- RSMR 4753. MRI Clinical Education I** The course will provide beginning level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in magnetic resonance imaging. Prerequisite, RSMR 4702 and RSMR 4703. Fall.
- RSMR 4763. MRI 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 magnetic resonance imaging. Prerequisite, RSMR 4753. Spring.
- RSMR 4773. MRI 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 magnetic resonance imaging. Prerequisite, RSMR 4763. Summer.
- RSMR 4783. MRI Clinical Education IV** 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 magnetic resonance imaging. Prerequisite, RSMR 4773. Summer.
- RSMR 4803. MRI Physical Principles I** Introduction of the concepts of basic physics and instrumentation for magnetic resonance imaging. Topics include nuclear magnetism, the Larmor equation, tissue characteristics, and imaging parameters. Prerequisite, Acceptance into the MRI program. Fall.
- RSMR 4812. MRI Pharmacology** Provides knowledge of types of contrast media, contraindications, dose calculation, administration routes, effects on the MRI image, patient care and assessment. Summer.
- RSMR 4813. MRI Physical Principles II** Exploration of imagining options, spin echo, fast spin echo, STIR, FLAIR, gradient imagining, and echo planar imaging. Includes a comprehensive analysis of image artifacts. Prerequisite, RSMR 4803. Spring.

- RSMR 4823. Digital Acquisition and Processing** Explains the patient coordinate system and spatial localization, magnetic resonance imaging gradient system, data manipulation, and quality control practices in MRI. Prerequisites, RSMR 4712. Spring.
- RSMR 4832. Advanced MR Imaging** Covers anatomy, pathology, scanning protocols, contrast administration, and contraindications for magnetic resonance angiography, venography, functional imaging, dynamic imaging, and cardiac imaging. This course is restricted to those students formally accepted into the MRI program in the Department of Radiological Sciences. Prerequisite, RSMR 4733. Summer.

Nuclear Medicine (RSN)

- RSN 300V. Nuclear Medicine Program Exchange** Clinical Preceptorship to be taken concurrently while enrolled in the nuclear medicine program. Fall, Spring, Summer.
- RSN 4113. Nuclear Medicine Pharmacy** This course focuses on the study of the chemical and biological aspects of radiopharmaceuticals, radionuclides, radioactive decay, and the preparation and quality control of radiopharmaceuticals. Clinical procedure information for magnetic resonance imaging studies. Prerequisites, Admission to the Nuclear Medicine Program. Spring.
- RSN 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.
- RSN 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.
- RSN 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.
- RSN 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.
- RSN 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.
- RSN 4535. 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.

Radiation Therapy (RST)

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.

RST 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.

RST 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.

RST 4234. Radiation Therapy Principles and Practice III The course will build on the foundations of the principles of radiation therapy practice from the two previous courses. Prerequisites, RST 4224 Radiation Therapy Principles and Practice II and good standing in the Radiation Therapy program. Summer.

RST 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.

RST 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.

RST 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. Spring.

RST 4333. Applied Radiation Biology This course will present basic concepts and principles of radiation biology. Prerequisites, RST 4322 Radiation Physics II, RST 4524 Radiation Therapy Clinical Education II, and good standing in the Radiation Therapy program. Summer.

RST 4413. Radiation Protection, Safety, and Quality Management This course will present principles of radiation protection and safety for the radiation therapist. Prerequisites, RST 4312 Radiation Physics I and good standing in the Radiation Therapy program. Spring.

RST 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.

RST 4523. Radiation Therapy Clinical Education II The course will have immediate content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Prerequisites, RST 4513 Radiation Therapy Clinical Education I and good standing in the Radiation Therapy program. Spring.

RST 4533. Radiation Therapy Clinical Education III The course will have advanced content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Prerequisites, RST 4524 Radiation Therapy Clinical Education II and good standing in the Radiation Therapy program. Summer.

Ultra Sound (RSU)

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.

RSU 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.

RSU 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.

RSU 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.

RSU 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.

RSU 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.

RSU 4232. Abdominal Sonography I Laboratory This course will provide clinical application knowledge of abdominal organs and organ systems. Students will participate in directed scanning exercises and simulator scanning to develop the critical thinking skills needed in practice of abdominal sonography. Corequisite, RSU 4214. Prerequisites, RSU 4131, 4122, and 4112. Fall.

RSU 4322. OBGYN 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.

RSU 4323. Physics and Instrumentation II This course is a continuation of RSU 4213. Advanced theoretical foundations and clinical applications of ultrasound physics and instrumentation, including Doppler principles, performance testing, and bioeffects. Prerequisites, RSU 4213. Spring.

RSU 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.

- RSU 4422. Vascular Sonography Laboratory** Ultrasound scanning of anatomy of the upper and lower extremities, abdomen, and special circulations, as well as cerebrovascular intra and extra cranial circulation will be the focus of this course. Prerequisites, Good standing in DMS program. Fall.
- RSU 4513. Ultrasound Clinic I** Entry level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts and abdominal sonography. Prerequisites, Successful completion of first semester in DMS program. Fall.
- RSU 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.
- RSU 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.
- RSU 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.
- RSU 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, obgyn, and vascular sonography. Prerequisites, successful completion of RSU 4513, RSU 4523, RSU 4534, and RSU 4544. Fall.
- RSU 4562. Ultrasound Clinical Education VI** Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Demand.
- RSU 4563. Ultrasound Clinical Education VII** Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Demand.
- RSU 4564. Ultrasound Clinical Education VIII** Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Demand.
- RSU 4613. Obstetric and Gynecologic Sonography** Specific anatomic and diagnostic information necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonography. Prerequisites, RSU 4213, Ultrasound Physics and Instrumentation. Fall.
- RSU 4622. Obstetric Sonography II** Continuation of specific anatomic and pathologic information necessary for the clinical practice of obstetric diagnostic medical sonography. Registration restricted to students who have successfully completed the spring semester in the DMS program. Summer.

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- RSU 4712. Introduction to Cardiac Sonography** Cardiac anatomy, physiology and clinical considerations necessary for practice in the cardiovascular clinical setting. Indications for cardiac testing and disease processes are discussed. Registration restricted by admittance to the DMS Cardiac Certificate program. Fall.
- RSU 4723. Cardiac Sonography** Continued discussion of cardiac disease processes. Co requisite RSU 4732. Good standing in DMS certificate program required. Summer.
- RSU 4732. Competency Sonography Lab I** Clinical application knowledge of small parts, abdominal organs and organ systems. Students will participate in directed scanning exercises and simulator scanning to develop the critical thinking skills needed. Corequisite, 4223. Prerequisites, RSU 4122 and 4122. Fall.
- RSU 4742. Competency Sonography Lab II** Provide clinical application knowledge of gynecologic and obstetrical, vascular, or cardiac sonography. Directed scanning exercises and simulator scanning to develop the critical thinking skills. Registration restricted to students who have successfully completed the fall semester of appropriate DMS certificate program. Spring.
- RSU 4812. Cardiac Conduction and Arrhythmia** Provides an understanding of normal and abnormal conduction of electrical impulses in the cardiac system. Prepares students to recognize cardiac rhythms in the clinical setting. Registration restricted by admittance to the DMS Cardiac Certificate program. Fall.

Radiologic Technology (RT)

- RT 1003. Making Connections Radiological Sciences** Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating radiologic science majors. Fall.
- 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.
- RT 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.
- RT 1112. Basic Radiologic Procedures** Provides knowledge of radiographic terminology and the preliminary steps of a radiographic examination. Radiographic anatomy and positioning of the chest and abdomen. Includes positioning nomenclature, pathology and film evaluation. Prerequisite, RT 1102, BIO 2203 and BIO 2201. Summer.
- RT 1121. Basic Radiologic Procedures Laboratory** The laboratory associated with Basic Radiologic Procedures. Corequisite, RT 1112. Summer.
- RT 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.
- RT 1211. Radiologic Procedures Laboratory** The laboratory associated with Radiologic Procedures. Corequisite, RT 1102. Fall.

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- RT 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.
- RT 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.
- RT 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, BIO 1203 and BIO 1201. Spring.
- RT 1311. Advanced Radiologic Procedures Laboratory** The laboratory associated with Advanced Radiologic Procedure. Corequisite, RT 1303. Spring.
- RT 1323. Principles of Exposure I** Coordinated classroom laboratory study of radiation physics associated with xray production, interactions between ionizing radiations and matter, and associated health physics issues. Prerequisite, PHYS 2133 Survey of Physics for Health Professions. Fall.
- RT 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.
- RT 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.
- RT 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.
- RT 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.
- RT 2121. Principles of Exposure II Laboratory** Laboratory for RT 2122. Corequisite, RT 2122 Principles of Exposure II. Spring.
- RT 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/ Spring.
- RT 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.
- RT 3202. Radiologic Special Procedures** Radiographic anatomy and positioning of the gastrointestinal tract and biliary system. Includes special procedures associated with diagnostic radiology. Prerequisite, RT 1303 and 1311. Fall.
- RT 3212. 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.
- RT 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.

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- RT 3312. Radiobiology** Principles of health physics, radiation protection, and radiobiology. Deals in depth with clinical applications. Prerequisite, RT 2212. Spring.
- RT 3332. Radiologic Pharmacology and Drug Administration** The concepts and applications of pharmacology and drug administration unique to the radiologic setting. Contrast media types and administration is covered in detail. Prerequisites, RT 3223 and RT 2202. Spring.
- RT 3333. Clinical Practicum VI** Continuation of RT 3223. Includes final competency evaluation. Prerequisite or corequisite, RT 3223, RT 3312, and RT 3332. Spring.

SCHOOL OF NURSING

Nursing (NRS)

- NRS 1123. Making Connections Nursing** Open to incoming freshmen only, this course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the University as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating nursing as a career choice. Fall, Spring.
- 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, BIO 2203, BIO 2201, and ENG 1003. Spring.
- NRS 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.
- NRS 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.
- NRS 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.
- NRS 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.
- NRS 2212. Nursing II Mental Health** Continued use of the nursing process, with an emphasis on the bio-psycho-social-cultural aspects of individuals and families. Mental health and adult health problems that are usual, expected and have predictable outcomes are studied. Registration restricted to AASN Program. Prerequisites, BIO 2223 and BIO 2221, CIT 1503 or CIS 1043, NRS 3392, NRS 3391, NRS 1235, NRSP 1243, and NRS 1252. Corequisites, NRS 2213, NRSP 2224, and NRS 2252.

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- NRS 2213. Nursing II Mental Health** A focus on clients experiencing conditions that are usual, expected, and have predictable outcomes in a Medical-Surgical setting. Emphasis is on the nursing process with modification and redesign of the plan of care.
- NRS 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.
- NRS 2221. Nursing Process Application** Focuses on application of the nursing process and the use of critical thinking and problem solving skills to meet the needs of clients. Registration restricted to Nursing Majors. Prerequisites, NRS 1214, NRS 2314. Demand.
- NRS 2232. Nursing III Maternal Child** A continuation of focus on clients experiencing conditions that are usual, expected, and have predictable outcomes in a Maternal Child setting. Emphasis is on the nursing process with modification and redesign of the plan of care. Corequisites, NRS 2233, NRS 2262, NRSP 2244, NRSP 2272. Prerequisites, BIO 2103, BIO 2101, NRS 1235, NRS 1252, NRS 2212, NRS 2213, NRS 2252, NRSP 1243, NRSP 2224. Fall.
- NRS 2233. Nursing III Medical Surgical** A continuation of focus on clients experiencing conditions that are usual, expected, and have predictable outcomes in a Medical Surgical setting. Emphasis is on the nursing process with modification and redesign of the plan of care. Corequisites, NRS 2232, NRS 2262, NRSP 2244, NRSP 2272. Prerequisites, BIO 2103, BIO 2101, NRS 1235, NRS 1252, NRS 2212, NRS 2213, NRS 2252, NRSP 1243, NRSP 2224. Fall.
- NRS 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.
- NRS 2262. Role Development III** Synthesis of the roles and competencies of the associate degree nurse with emphasis on the roles of manager of care and member within the profession of nursing. Selected topics on current issues and trends that influence nursing practice, organizations, ethical legal issues and nursing management process and skills are explored. Prerequisite, NRS 2215, NRS 2252, and NRSP 2224. Corequisites, NRS 2235, NRSP 2272, and NRSP 2244. Fall.
- NRS 2311. NCLEX Preparation** An introduction to the essential skills of problem solving and test taking that are critical to professional nursing. Fall.
- NRS 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, NRSP 1222. Fall.
- NRS 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.
- NRS 2423. Introduction to Essentials of Nursing Care** This course introduces the scope of the nursing profession with emphasis on basic human needs, growth and development across the lifespan, communication, legal and ethical parameters of practice, and teaching and learning theories. Prerequisites, Admission to the Accelerated BSN track. Corequisite, NRSP 1422. Summer.

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- NRS 2433. Essentials of Medical Surgical Nursing I** Health focus on individuals and families experiencing acute and chronic illness across the lifespan. Integrated foci include medical surgical, geriatrics, pediatrics, and nutrition. Registration restricted to students who are accepted to the accelerated BSN option. Prerequisites, NRS 2423 and NRSP 1422. Corequisites, NRS 3392, NRS 2443, NRSP 3391, and NRSP 2432. Fall.
- NRS 2443. Essentials of Nursing Care of the Childbearing Family** Theoretical basis for professional nursing care of the childbearing family. Emphasis is on nursing care of the woman, the fetus, and the infant within the family environment. Registration restricted to students who are accepted to the accelerated BSN option. Prerequisites, NRS 2423 and NRSP 1422. Corequisites, NRS 3392, NRS 2433, NRSP 3391, and NRSP 2432. Fall.
- NRS 2601. Nursing Process Application** Focuses on the application of the nursing process and the use of critical thinking and problem solving skills to meet the needs of clients. Fall.
- NRS 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.
- NRS 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.
- NRS 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 3355. Spring.
- NRS 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.
- NRS 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.
- NRS 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.
- NRS 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.
- NRS 3345. Acute Care Nursing II** Continuation of concepts introduced in NRS 3315. Prerequisites, NRS 3315 and NRS 3343. Spring.
- NRS 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.

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- NRS 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, NRSP 3325 and prerequisite or corequisite, NRS 3344. Spring.
- NRS 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.
- NRS 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 2343 or permission of the instructor. Prerequisite for LPN, AASN Program, permission of the instructor. Corequisite, NRS 3392. Fall, Spring, Summer.
- NRS 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, BIO 2203 and BIO 2201. Pre or corequisite, BIO 2223, BIO 2221, and NRSP 3391. Fall, Spring, Summer.
- NRS 3422. Essentials of Mental Health Nursing** Explores and applies the basic concepts of professional nursing for clients with mental health problems. Registration restricted to students who are accepted to the accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2433, NRS 2443, and NRSP 2432. Corequisites, NRS 3343, NRS 3423, and NRSP 3433. Fall.
- NRS 3423. Essentials of Community Health** Concepts of professional nursing expanded to the care of individuals, families, and groups of patients in community and rehabilitation settings. Focus is on needs assessment, strategies, high risk families, professional roles and health care issues. Registration restricted to students who have been accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2433, NRS 2443, and NRSP 2432. Corequisites, NRS 3343, NRS 3422, and NRSP 3433. Fall.
- NRS 3445. Essentials of Medical Surgical Nursing II** Health focus on individuals and families experiencing acute and chronic illness across the lifespan. Integrated foci include adult medical surgical, geriatrics, pediatrics, and nutrition. Registration restricted to students who have been accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, and NRSP 3433. Corequisites, NRS 3023, NRSP 3453. Spring.
- NRS 3463. Pathophysiology Based Pharmacology I** Disruptions of normal human functioning and disease processes. Pharmacologic principles and treatment of select disease process are discussed. Link between the basic biological sciences and the application of pharmacological theory into nursing practice. Registration restricted to admission to the accelerated BSN option. Prerequisites, NRSP 1422, NRS 2423, NRS 3392, NRSP 3391, NRS 2433, NRS 2443, NRSP 2432. Corequisites, NRS 3422, NRS 3323, NRSP 3433. Fall.
- NRS 3473. Pathophysiology Based Pharmacology II** Disorders of normal human functioning and disease processes. Pharmacologic principles and treatment of select disease process are discussed. Ties basic biological sciences theory and the application of pharmacological theory into nursing practice. Registration restricted to students admitted to the accelerated BSN option. Prerequisites, NRS 3422, NRS 3323, NRSP 3433, and NRS 3463. Corequisites, NRS 3445 and NRSP 3453. Spring.

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- NRS 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.
- NRS 4223. Forensic Nursing** This course will introduce the beginning nurse to the field of forensic nursing. Content includes the recognition and management of forensic patients, both living and dead, and includes information on detection, collection, and preservation of evidence. Restricted to students who have completed 1 year of nursing coursework in either the AASN or BSN program, RN licensure, or permission of instructor. Summer, odd.
- NRS 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, Spring.
- NRS 4312. Chronic Illness and Rehabilitation Nursing** Focus on clients with chronic illness throughout the lifespan. Concepts of gerontology and rehabilitation are integrated. Prerequisites, NRS 3345, NRSP 3355, NRS 3312. Fall, Spring.
- NRS 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.
- NRS 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 3355, NRS 3343, NRS 3392 and NRSP 3391. Fall, Spring.
- NRS 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.
- NRS 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.
- NRS 4363. Nursing Care VIII** Individualized practicum for registered nurses in which senior level theory and professional course content is implemented, using local and regional health care settings. Prerequisites, RN status. Corequisites or prerequisites, NRS 4355 and 4373. Fall.
- NRS 4373. Professional Nursing Management** Managerial and leadership aspects of the first level nurse manager in a managed care environment are a major focus. Prerequisites, NRS 3345, NRS 3312, NRSP 3355, PSY 3103 and PSY 3101 or SOC 3383 and SOC 3381. Fall, Spring.
- NRS 4393. 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.

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NRS 4425. Essentials of Medical Surgical Nursing III Continuation of concepts introduced in NRS 3345 Essentials of Medical Surgical Nursing II. Registration restricted to students who have been accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, and NRSP 3453. Corequisites, NRS 4443 and NRSP 4433. Spring.

NRS 4443. Essentials of High Acuity Nursing Focuses on patients with acute episodic health deviations which require ongoing diagnosis, immediate intervention or intensive nursing observation and care. Registration restricted to Students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, and NRSP 3453. Corequisites, NRS 4425 and NRSP 4433. Spring.

NRS 4482. Critical Decision Making and Testing Competencies in Nursing Further assists nursing students to identify areas for improving critical thinking skills and test taking skills. Will enhance the 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.

NRS 4503. 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.

NRS 4513. 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.

NRS 4523. 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.

NRS 4533. Disaster and Mental Health Identifies evolving evidence related to the impact of disaster and mass violence on mental health. Considers natural and manmade disasters, short and long term effects and common treatment strategies. Registration restricted to Homeland Security and Disaster Preparedness minors or any major with permission of Instructor. Prerequisite, Junior standing. Spring, even.

NRS 4543. Health Care Administration Introduction to the organization, operations and administration of a modern health care environment. Includes an introduction to health care delivery systems, decision making, and the management functions. Prerequisite, Senior status or graduate student enrolled in a CNHP program or any health related major. Fall, Spring.

Nursing Practicum (NRSP)

NRSP 1222. 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.

NRSP 1243. 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.

NRSP 1422. 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.

NRSP 220V. 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.

NRSP 2224. Clinical Practicum II NRS 2215 is implemented. The student applies the nursing process in the care of individuals and families in all stages of the life cycle. Prerequisites, NRS 1235, NRS 1252 and NRSP 1243. A clinical laboratory fee will be assessed. Spring. An additional fee is assessed for this course for a communication assessment test.

NRSP 2244. Clinical Practicum III NRS 2235 is implemented. Refinement of the nursing process in providing care for selected clients. Prerequisites, NRS 2215, NRS 2252 and NRSP 2224, Corequisites, NRS 2235, NRS 2262, and 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.

NRSP 2272. 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.

NRSP 2343. Nursing Care II Practicum in which the clinical skills associated with the events of childbearing and perioperative care are developed. A clinical laboratory fee will be assessed. Prerequisites, NRS 2314 and NRSP 1422. Prerequisite or corequisite, NRS 2334. Spring.

NRSP 2432. Clinical Experience I Practicum in which NRS 2433 and NRS 2443 are implemented. The student designs and implements care for individuals and families, and the childbearing family. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422. Corequisites, NRS 3392, NRSP 3391, NRS 2433, NRS 2443. Fall.

NRSP 3325. Nursing Care III Practicum in which NRS 3314 is implemented. The student designs and implements care for adults and children in a secondary care setting. A clinical laboratory fee will be assessed. Prerequisite or corequisite, NRS 3315. Fall.

NRSP 3355. Nursing Care IV Practicum in which theory from NRS 3344 is implemented or expanded. The student designs, implements, and evaluates care of individual clients and families in secondary care settings. A clinical laboratory fee will be assessed. Prerequisites, NRSP 3325 and prerequisite or corequisite, NRS 3345. Spring.

NRSP 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. Prerequisite for LPN, AASN Program. Permission of the instructor required. A clinical laboratory fee will be assessed. Corequisite, NRS 3392. Fall, Spring, Summer.

NRSP 3433. Clinical Experience II Practicum in which theory from NRS 3422 and NRS 3423 is implemented. The student designs, implements and evaluates care for individuals and families with acute and chronic illness across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2433, NRS 2432. Corequisites, NRS 3422, NRS 3343, NRS 3423. Fall.

NRSP 3453. Clinical Experience III Practicum in which theory from NRS 3445 is implemented. The student designs, implements and evaluates care for individuals and families with acute and chronic illness across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS, 2423, NRSP 1422. NRS 3392, NRSP 3391, NRS 2433, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, and NRSP 3433. Corequisites, NRS 3023 and NRSP 3445. Spring.

NRSP 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. A clinical laboratory fee will be assessed. Prerequisites, RN status. Corequisites or prerequisites, NRS 4362, NRS 4343, and NRS 4312. Spring.

NRSP 4336. 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.

NRSP 4363. Nursing Care VIII Individualized practicum for registered nurses in which senior level theory and professional course content is implemented using local and regional health care settings. A clinical laboratory fee will be assessed. Prerequisites, RN status. Corequisites or prerequisites, NRS 4355 and 4373. Fall.

NRSP 4366. 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.

NRSP 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 BIO 3203. Fall, Spring.

NRSP 4433. Clinical Experience IV Practicum in which theory from NRS 4425 and NRS 4443 is implemented. The student designs, implements and evaluates care for individuals and families with acute and chronic illness across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS, 2423, NRSP 1422. NRS 3392, NRSP 3391, NRS 2433, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, and NRSP 3453. Corequisites, NRS 4425 and NRS 4443. Spring.

NRSP 4456. Clinical Experience V This practicum builds on the concepts learned in previous courses. The student designs, implements, and evaluates care for individuals and families, groups, and populations across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, NRSP 3453, NRS 4425, NRS 4443, NRSP 4433, NRS 4362, and NRS 4543. Corequisites, NRS 3312. Summer.

NRSP 4466. Clinical Experience VI This practicum builds on the concepts learned in previous courses. The student designs, implements, and evaluates care for individuals and families, groups, and populations across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 3392, NRSP 3391, NRS 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, NRSP 3453, NRS 4425, NRS 4443, NRSP 4433, NRS 4362, NRS 4543, and NRSP 4456. Corequisites, NRS 312. Summer.

Social Work (SW)

SW 1203. Making Connections Social Work Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating social work majors.

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.

SW 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.

SW 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.

SW 3303. Human Behavior and Social Environment I Physical, psychological, social growth and development, across the lifespan. For social workers. Prerequisite, SW 2203. Fall.

SW 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.

SW 3323. Substance Abuse, Intervention and Treatment Historical review of drug and alcohol problems, with an analysis of treatment modalities, theories of substance abuse, prevention and education strategies, and social policy implications. Summer, Demand.

SW 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.

SW 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.

SW 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.

- SW 3363. Cultural Diversity** Application of social diversity concepts from the Human Behavior and the Social Environment sequence to practice situations will be incorporated into the study of ethical practice of social work with minority populations. Prerequisites, SW 3303 and SW 3333. Fall.
- SW 4203. Crisis Intervention** The process of crisis is examined and basic knowledge, interviewing and counseling skills are taught to work with those in crisis. Demand.
- SW 4213. Introduction to Domestic Violence** Explores the psychological, social, and legal causes/ramifications of domestic violence from micro, mezzo and macro perspectives, focusing on educating the social work student about the theories and principles guiding DV service delivery and crisis response techniques. Registration restricted to junior and senior level undergraduates. Demand.
- SW 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.
- SW 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.
- SW 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.
- SW 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.
- SW 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.
- SW 4313. Social Welfare Policy** Analytical evaluation of how social welfare policies are formulated and implemented. Prerequisite, SW 3333. Fall.
- SW 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.
- SW 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.
- SW 460V. Special Problems** Individually directed problems in Social Work. Must be arranged with the professor and approved by department chair. Demand.

COLLEGE OF SCIENCES AND MATHEMATICS

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 (BIO)

- BIO 1013. Making Connections Biology** Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.
- BIO 1201. 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. It is recommended this course be taken concurrently with BIO 1203. Fall.
- BIO 1203. Human Anatomy** Study of the structure of the human body with emphasis on the muscular, skeletal, nervous, and vascular systems. For Radiologic Technology Science majors only. Three hours per week. Special course fees may apply. It is recommended this course be taken concurrently with BIO 1201. Fall.
- BIO 1211. 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 BIO 1213. Spring.
- BIO 1213. 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. It is recommended that this course be taken concurrently with BIO 1211. Spring.
- BIO 1301. Biology of Animals Laboratory** Two hours per week. Special course fees may apply. It is recommended this lab be taken concurrently with BIO 1303. Fall, Spring, Summer, even.
- BIO 1303. 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.
- BIO 1501. Biology of Plants Laboratory** Three hours per week. It is recommended that this lab be taken concurrently with BIO 1503. Special course fees may apply. Fall, Spring, Summer, odd.
- BIO 1503. Biology of Plants** Form, structure, function, and reproduction of plants. Lecture three hours per week. Special course fees may apply. Fall, Spring, Summer, odd.
- BIO 2011. Biology of the Cell Laboratory** Two hours per week. Recommended To be taken concurrently with BIO 2013. Special course fees may apply. Prerequisite, CHEM 1011.
- BIO 2013. Biology of the Cell** An introduction to structures and processes in cells, including cellular evolution, biologically important molecules, organelle structure and function, and cellular energy. Lecture three hours per week. Prerequisite, CHEM 1013. Fall, Spring.

- BIO 2101. Microbiology for Nursing and Allied Health Laboratory** Two hours per week. It is recommended this course be taken concurrently with BIO 2103. Special course fee, 10.00. Fall, Spring, Summer.
- BIO 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.
- BIO 2201. 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. It is recommended this course be taken concurrently with BIO 2203. Fall, Spring, Summer.
- BIO 2203. Human Anatomy and Physiology I** Introduction to the biology of atoms, molecules, organelles and cellular functions, tissues, functional anatomy of integumentary, skeletal, muscular and central nervous systems, interaction with external environment. Three hours per week. Special course fees may apply. No prerequisites. Fall, Spring, Summer.
- BIO 2221. Human Anatomy and Physiology II Laboratory** 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, BIO 2201 and BIO 2203. It is recommended this course be taken concurrently with BIO 2223. Fall, Spring, Summer.
- BIO 2223. 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, BIO 2203 and BIO 2201. Fall, Spring, Summer.
- BIO 3011. 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 BIO 3013. Special course fees may apply. Fall, Spring.
- BIO 3013. 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, BIO 2013 and BIO 2011. Fall, Spring.
- BIO 3023. Principles of Ecology** An introduction to the study of relationships and interactions of organisms and their environment. Prerequisites, BIO 1501, BIO 1503, BIO 1301, and BIO 1303. Fall, Spring.
- BIO 3033. 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, BIOL 1001 and 1003 or higher. Spring, odd.
- BIO 3201. 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, BIOL 1021, BIO 1203, and BIO 1201. 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.

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- BIO 3203. Pathophysiology** The physiology of pathological disturbances and inborn errors. Mechanism of disturbance, body compensating efforts, and adaptive responses of man. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 2201, BIO 2203, BIO 2223, and BIO 2221. Not open to Biological Sciences majors. Fall, Spring.
- BIO 3211. 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. Spring.
- BIO 3221. Human Structure and Function I Laboratory** Two hours per week. Special course fees may apply. Special course fees may apply. It is recommended this course be taken concurrently with BIO 3223. Fall.
- BIO 3223. 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. Prerequisite, BIO 1301, BIO 1303, CHEM 1023 and 1021. Fall.
- BIO 3231. Human Structure and Function II Laboratory** Two hours per week. Special course fees may apply. It is recommended this course be taken concurrently with BIO 3233. Spring.
- BIO 3233. 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, BIO 3223 and BIO 3221. Spring.
- BIO 3241. Physical Diagnosis** This course provides an introduction to clinical medicine for Pre medical students by teaching the basics of physical examination. Prerequisite, BIO 1303 and BIO 1301. Enrollment limited to Pre medical students. Special course fees may apply. Graded pass or fail, credit cannot be applied to degree requirements. Fall.
- BIO 3251. Introduction to Pathology** This course introduces Pre medical students to presentation, physical findings, etiology and basic treatment of a number of common diseases and conditions. Special course fees may apply. Prerequisite, BIO 1303 and BIO 1301. Enrollment limited to Pre medical students. Graded pass or fail, credit cannot be applied to degree requirements. Spring.
- BIO 3301. General Entomology Laboratory** Two hours per week. It is recommended this course be taken concurrently with BIO 3303. Fall.
- BIO 3302. Comparative Anatomy** Chordate morphology, phylogeny, ontogeny, organology, and homology. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Fall, odd.
- BIO 3303. General Entomology** Identification, structure, and life history of the principal insect orders. Lecture three hours per week. Prerequisites, BIO 1301 and BIO 1303. Fall.
- BIO 3311. Economic Entomology Laboratory** Two hours per week. It is recommended this course be taken concurrently with BIO 3313. Spring.
- BIO 3312. Comparative Anatomy Laboratory** Four hours per week. Special course fees may apply. To be taken concurrently with BIO 3302. Fall, odd.
- BIO 3313. Economic Entomology** Life history, distribution, and control of injurious insects. Lecture three hours per week. Prerequisites, BIO 1301 and BIO 1303. Spring.

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BIO 3321. Animal Physiology Laboratory Three hours per week. Special course fees may apply. To be taken concurrently with BIO 3323. Spring.

BIO 3322. Invertebrate Zoology Classification and natural history of representative invertebrates. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring, even.

BIO 3323. 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, BIO 1301, BIO 1303, CHEM 1021, and 1023. Spring.

BIO 3332. Invertebrate Zoology Laboratory Four hours per week. Special course fees may apply. To be taken concurrently with BIO 3322. Spring, even.

BIO 3501. 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.

BIO 3511. Wild Flowers of Arkansas Laboratory Two hours per week. To be taken concurrently with BIO 3501. Special course fees may apply. Summer, odd every 4 years.

BIO 3521. Plant Morphology Laboratory Two hours per week. To be taken concurrently with BIO 3523. Special course fees may apply. Fall, odd.

BIO 3523. Plant Morphology Development, structure, and reproduction of plants. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Fall, odd.

BIO 3531. 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, BIO 1501 and BIO 1503. Spring, odd.

BIO 3531. Plant Taxonomy Laboratory Four hours per week. To be taken concurrently with BIO 3531. Special course fees may apply. Spring, odd.

BIO 3541. Plant Pathology Laboratory Two hours per week. To be taken concurrently with BIO 3542. Special course fees may apply. Spring, odd.

BIO 3542. 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, BIO 1501 and BIO 1503. Spring, odd.

BIO 3553. Economic Botany Economic plants and their use by man. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Summer, even every 4 years.

BIO 3963. History and Nature of Science History of the Western tradition of science, nature of the scientific method, relations between theory and empirical work, and theory change in the sciences. Provides a broad foundation for differentiating science from pseudoscience.

BIO 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, eight hours upper level biology. Instructor permission required. Fall, even.

BIO 4003. Laboratory Techniques in Electron Microscopy Laboratory Six hours per week. To be taken concurrently with BIO 4001. Special course fees may apply. Fall, even.

BIO 4011. Microtechnique Methods of killing, fixing, staining, and mounting tissues. Lecture one hour per week. Special course fees may apply. Prerequisites, BIO 1501, BIO 1503, CHEM 3103, and CHEM 3101. Fall, odd.

BIO 4012. Microtechnique Laboratory Four hours per week. To be taken concurrently with BIO 4011. Special course fees may apply. Fall, odd.

BIO 4013. 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. Fall, even years.

BIO 4021. 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.

BIO 4023. 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, BIO 3033, BIO 3023, and BIO 3013. Permission of Instructor required. Fall, odd.

BIO 403V. 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.

BIO 404V. Special Topics in 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. Permission of Instructor required. May be repeated for a total credit of 6 hours. Fall, Spring.

BIO 4103. 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, BIO 2103 or BIO 3313 or BIO 4104 or BIO 4133. Fall, even.

BIO 4104. 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 BIO 2013 or permission of instructor. Special course fees may apply. Fall, Spring, Summer, even.

BIO 4111. 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, BIO 2013 and CHEM 1013. Fall.

BIO 4113. Immunology Study of the human immune system. Topics include innate and acquired immunity, complement fixation and disorders of the immune system. Lecture 3 hours per week. Special course fees may apply. Prerequisites, BIO 2013 and CHEM 1013. Fall.

- BIO 4123. 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, BIO 2013 or BIO 4133, or permission of the instructor. Spring, odd.
- BIO 4131. Cell Signaling Laboratory** Two hours per week. To be taken concurrently with BIO 4133. Special course fees may apply. Spring.
- BIO 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, BIO 1301, BIO 1303, CHEM 1023 and 1021. Spring.
- BIO 4143. Pharmacology** The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, BIO 2203 and BIO 2223, or BIO 3223 and BIO 3233, BIO 4104, and CHEM 4243. Spring, even.
- BIO 4201. Issues in Human Ecology Laboratory** Two hours per week. To be taken concurrently with BIO 4202. Special course fees may apply. Summer, odd.
- BIO 4202. 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.
- BIO 4211. Human Genetics Laboratory** Three hours per week. To be taken concurrently with BIO 4213. Special course fees may apply. Fall, odd.
- BIO 4213. Human Genetics** Current advances in the understanding of the human genome. Lecture three hours per week. Prerequisite, BIO 3013. Special course fees may apply. Fall, odd.
- BIO 4223. Human Endocrinology** Control of physiological processes by hormones. Types of chemical messengers, impact on cells, tissues and organs, and interrelationships of organ systems with respect to hormones will be studied. Important endocrine disorders will also be addressed. BIO 2013 or CHEM 4243, AND BIO 2223 and BIO 2221 or BIO 3233 and BIO 3231. Spring.
- BIO 4301. 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, BIO 3301, BIO 3303, and BIO 3123 or BIO 4371 and BIO 4373. Spring, odd.
- BIO 4302. Aquatic Entomology Laboratory** Four hours per week. To be taken concurrently with BIO 4301. Spring, odd.
- BIO 4303. Forensic Entomology** The life history, ecology and behavior of insects and related arthropods and how they affect the interpretation of potential crime scenes. Prerequisite, BIO 1013 or BIO 1303. Dual listed BIO 5303. Fall, odd.
- BIO 4311. Fishery Biology** Identification, ecology, food habits, management, and behavior of fishes. Lecture one hour per week. Special course fees may apply. Prerequisites, BIO 1303 and BIO 1301. Summer, even.
- BIO 4312. Fishery Biology Laboratory** Four hours per week. To be taken concurrently with BIO 4311. Special course fees may apply. Summer, even.

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- BIO 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, BIO 3033, BIO 3023, and BIO 3013, and permission of the instructor. Spring, even.
- BIO 4322. Marine Mammals Laboratory** Hands on experience on the classification, anatomy, and behavior of marine mammals. Concurrent enrollment in BIO 4323. Special course fees may apply. Permission of instructor required. Spring, odd.
- BIO 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, BIO 3312, BIO 4352, BIO 4653, BIO 3023, or BIO 3033. Permission of instructor required. Spring, odd.
- BIO 4332. Animal Histology** Cells and tissues of the organ systems of vertebrates. Lecture two hour per week. Special course fees may apply. Prerequisites, BIO 3302 and BIO 3312. Spring.
- BIO 4333. Marine Biology** Overview of the diverse discipline of marine biology. Emphasis on life history but will incorporate aspects of chemistry, microbiology, molecular biology, and ecology of marine systems. Also includes marine fisheries, conservation biology, aquaculture, pharmacology, resource management, and public policy. Prerequisites, BIO 1303 and BIO 1301 or BIOL 1003 and 1001, and BIO 3023, or permission of instructor. Dual listed BIO 5333. Spring, even.
- BIO 4341. Animal Embryology Laboratory** Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4343. Spring.
- BIO 4342. Animal Histology Laboratory** Four hours per week. Special course fees may apply. To be taken concurrently with BIO 4332. Spring.
- BIO 4343. 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 BIO 4341. Prerequisites, BIO 1301 and BIO 1303. Spring.
- BIO 4351. Mammology Laboratory** Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4352. Fall, even.
- BIO 4352. Mammology** Classification, distribution, structure, ecology, adaptations, and economic importance of mammals. Lecture two hours per week. Prerequisites, BIO 1301 and BIO 1303. Fall, even.
- BIO 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.
- BIO 4361. Mammalian Neurobiology Laboratory** Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4363. Fall, odd.
- BIO 4362. Applied Aquaculture** TwField 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, BIO 4311 and BIO 4312. Summer.

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- BIO 4363. 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, BIO 1301 and BIO 1303, or BIO 2223 and BIO 2221, or permission of instructor. Fall, odd.
- BIO 4371. Animal Ecology Laboratory** Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4373. Fall, odd.
- BIO 4372. 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, BIO 4311. Summer.
- BIO 4373. 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, BIO 3023. Fall, odd.
- BIO 4382. Parasitology** Parasites of vertebrates and plants, with emphasis on protozoan and helminth parasites of man and domestic animals. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring.
- BIO 4392. Parasitology Laboratory** Four hours per week. Special course fees may apply. To be taken concurrently with BIO 4382. Spring.
- BIO 4401. Ichthyology Laboratory** Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4402. Fall, even.
- BIO 4402. 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, BIO 1301 and BIO 1303. Fall, even.
- BIO 4403. 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, BIO 3231 and BIO 3233, or BIO 3323 and 3321. Dual Listed BIO 5403. Fall even.
- BIO 4411. Herpetology Laboratory** Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4412. Spring, even.
- BIO 4412. 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, BIO 1301 and 1303. Spring, even.
- BIO 4413. 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.
- BIO 4421. Ornithology Laboratory** Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4423. Spring, even.
- BIO 4423. Ornithology** Morphology, physiology, taxonomy, behavior, ecology, natural history, zoogeography, and evolution of birds. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring, even.

- BIO 4433. Field Experience in Marine Environments** Hands on experience with living and non living components of environments. Emphasis on marine organisms and habitats but will incorporate human interactions associated with marine environments. Course is comprised of an intensive 12 day, 10 hours a day, field trip to an appropriate marine environment. Prerequisites, BIO 4333, or BIOL 1003 and BIOL 1001, or permission of instructor.
- BIO 4501. Anatomy of Vascular Plants Laboratory** Two hours per week. To be taken concurrently with BIO 4502. Special course fees may apply. Summer, odd every 4 years.
- BIO 4502. Anatomy of Vascular Plants** Development and structure of the vascular plants. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Summer, odd every 4 years.
- BIO 4511. Plant Physiology Laboratory** Three hours per week. To be taken concurrently with BIO 4513. Special course fees may apply. Spring, even.
- BIO 4513. 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, BIO 1501, BIO 1503, and CHEM 2064 or 3103 and 3101. Spring, even.
- BIO 4521. Wetland Plant Ecology Laboratory** Two hours per week. To be taken concurrently with BIO 4522. Special course fees may apply. Spring, odd.
- BIO 4522. 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, BIO 3023 or permission of professor or chair. Spring, odd.
- BIO 4531. 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, BIO 1501 and BIO 1503. Fall, even every 4 years.
- BIO 4531. Aquatic Plants Laboratory** Four hours per week. To be taken concurrently with BIO 4531. Special course fees may apply. Fall, even every 4 years.
- BIO 4541. Mycology Laboratory** Two hours per week. To be taken concurrently with BIO 4542. Special course fees may apply. Fall, even every 4 years. Fall, odd.
- BIO 4542. Mycology** Morphology, cytology, genetics, and physiology of fungi. Lecture two hours per week. Four hours per week. To be taken concurrently with BIO 4541. Special course fees may apply. Fall, odd.
- BIO 4551. Medical Mycology Laboratory** Two hours per week. To be taken concurrently with BIO 4552. Special course fees may apply. Fall, even.
- BIO 4552. 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, BIO 1501 and BIO 1503. Fall, even.
- BIO 4601. Limnology Laboratory** Two hours per week. To be taken concurrently with BIO 4603. Special course fees may apply. Fall, odd.
- BIO 4603. Limnology** CutanPhysicochemical 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, BIO 1301 and BIO 1303. Fall, odd.

BIO 4611. Radiation Safety Theory and techniques for dealing with radiation and radioactive materials. Required for students wishing to use radioactive materials on campus. Permission of Instructor required. Special course fees may apply. Demand.

BIO 4612. 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.

BIO 4613. 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, Permission of instructor. Spring, odd.

BIO 4621. Environmental Microbiology Laboratory Laboratory and field investigation into the role of microbes in the environment. Two hours per week. To be taken concurrently with BIO 4623. Special course fees may apply. Spring, odd.

BIO 4623. 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 BIO 2013, or BIO 4104, or BIO 4133. Spring, odd.

BIO 4633. 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, BIO 4133 and BIO 4131, or CHEM 4243 or permission of instructor. Lecture three hours per week. Special course fees may apply. Fall, even.

BIO 4641. 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, BIO 3023 or BIO 4373, BIO 4633 or permission of instructor. To be taken concurrently with BIO 4643. Special course fees may apply. Fall, odd.

BIO 4643. 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, BIO 3023 or BIO 4373, BIO 4633, or permission of instructor. Fall, odd.

BIO 4651. Wildlife Management Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4653. Fall, even.

BIO 4653. 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, BIO 1301 and BIO 1303. Fall, even.

BIO 4661. Wildlife Management Investigational Techniques Laboratory Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4661. Spring, odd.

BIO 4661. 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, BIO 1301 and BIO 1303. Spring, odd.

BIO 4673. Instruction to GIS for Natural Resources Introduction to the principles, theory, and practice of contemporary Geographic Information Systems for Natural Resources. Combination of lecture, reading, and computer based activity centered around natural resources will be used to provide background and understanding. Prerequisites, BIO 3023 or consent of instructor. Fall.

Biology (BIOL)

BIOL 1001. Biological Science Laboratory Two hours per week. It is recommended this course be taken concurrently with BIOL 1003. Special course fees may apply. Fall, Spring, Summer.

BIOL 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.

BIOL 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. It is recommended this course be taken concurrently with BIOL 1001. Spring.

BIOL 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. It is recommended this course be taken concurrently with BIOL 1001. Special course fees may apply. Fall, Spring.

BIOL 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. It is recommended this course be taken concurrently with BIOL 1001. Special course fees may apply. Fall, Spring.

Method and Material Teaching Science (EDSC)

EDSC 4593. Methods and Materials 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.

Teaching Internship (TIBI)

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 of teaching internship. Fall, Spring.

DEPARTMENT OF CHEMISTRY AND PHYSICS

Chemistry (CHEM)

CHEM 1003. Introduction to Chemistry Fundamentals of chemical terms and applications to laboratory studies. Extensive drills on calculations and use of hand held calculator in problem solving. Recommended for those with no prior study of chemistry. Special course fees may apply. Corequisite or prerequisite, MATH 0003, MATH 0013, or MATH 1023. Fall, Spring.

CHEM 1011. General Chemistry I Laboratory 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.

CHEM 1013. General Chemistry I Study of chemical reactions and equations, periodic relationships, the gaseous state, and the fundamentals of atomic theory, quantum theory, electronic structure, chemical bonding, stoichiometry and thermochemistry. Special course fees may apply. Corequisite or prerequisite, MATH 0013 or MATH 1023. Prior completion of CHEM 1003 or high school chemistry strongly recommended. Fall, Spring, Summer.

CHEM 1021. General Chemistry II Laboratory 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.

CHEM 1023. General Chemistry II 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.

CHEM 1031. Introduction to Organic and Biochemistry Laboratory 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.

CHEM 1033. Introduction to Organic and Biochemistry 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.

CHEM 2002. Computers in Chemistry Introduction to computer software and common practices used in the analysis and presentation of scientific data. Corequisite or prerequisite, CHEM 1023 and CHEM 1021. Spring.

CHEM 2004. Descriptive Inorganic Chemistry 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.

CHEM 2393. Special Problems Selected special or current topics of interest to faculty and students that require no prerequisite courses. This course is appropriate for a general student audience. See individual semester schedules for more information about each offering. Demand.

CHEM 3054. Quantitative Analysis Emphasizes quantitative and critical analysis based on standard analytical techniques and instrumentation. Topics include statistics, material equilibria, basic skills in instrumentation and electroanalytical methods. Lecture two hours, laboratory six hours per week. Special course fees may apply. Prerequisites, MATH 2204, CHEM 1021 and 1023, or permission of Instructor. Spring.

CHEM 3101. Organic Chemistry I Laboratory 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.

CHEM 3103. Organic Chemistry I Study of the nomenclature, bonding, preparations and reactions of compounds of carbon, including aliphatic and aromatic hydrocarbons, haloalkanes, alcohols, and ethers. Lecture three hours per week. Special course fees may apply. Prerequisites, CHEM 1023 and CHEM 1021. Fall, Spring, Summer.

CHEM 3111. Organic Chemistry II Laboratory 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.

CHEM 3113. Organic Chemistry II Continuation of Organic Chemistry I, including the study of phenols, aldehydes, ketones, carboxylic acids and their derivatives, amines, proteins, carbohydrates, lipids and nucleic acids. Spectroscopic methods of structure determination are also presented. Lecture three hours per week. Special course fees may apply. Prerequisite, CHEM 3103. Fall, Spring, Summer.

CHEM 3124. Physical Chemistry I 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.

CHEM 3134. Physical Chemistry II Systematic, rigorous development of fundamental chemical concepts presented in a unified lecture and laboratory format. Prerequisite, CHEM 3124. Spring.

CHEM 3154. Survey of Physical Chemistry A one semester course exploring the systematic development of fundamental chemical concepts. Special course fees may apply. Prerequisites, PHYS 2044 or PHYS 2064, MATH 2204, CHEM 3113. Spring.

CHEM 4043. Environmental Chemistry An overview of the chemistry of natural waters, soils, and the atmosphere. Emphasis will be on the chemical and biological agents which affect the quality of the environment. The most commonly used analytical techniques and quality assurance and control procedures will be covered. Special course fees may apply. Prerequisites, CHEM 3103 and CHEM 3101. Fall, even.

CHEM 4053. Geochemistry An overview of the chemistry of terrestrial materials. Emphasis will be on the chemical processes which formed and have changed the Earth. Special course fees may apply. Prerequisite, CHEM 3133. Spring, even.

CHEM 4204. Inorganic Chemistry Includes the recent concepts of bonding and molecular structure as well as some of the less common chemistry of the elements. Lecture three hours, laboratory three hours per week. Special course fees may apply. Prerequisites, CHEM 3124. Spring.

CHEM 4224. Instrumentation Application and operational theories of modern instruments. Laboratory includes use of gas chromatography, infrared, ultraviolet visible and atomic absorption, spectroscopy, and electrochemical techniques. Lecture two hours, laboratory six hours per week. Special course fees may apply. Prerequisites, CHEM 3054, CHEM 3124. Fall.

CHEM 4241. Biochemistry Laboratory 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.

CHEM 4243. Biochemistry Presentation of the important areas of modern biochemistry and a description of methods commonly employed in biochemical research. Lecture three hours per week. Special course fees may apply. Prerequisites, CHEM 3113 and 3111. Fall.

- CHEM 4254. Fundamentals of Mass Spectrometry** Special topics in spectrochemical analysis. Atomic and molecular spectrometry, surface analytical methods, and their applications to forensic, environmental, atmospheric, geochemical, and bioanalytical problems. Integrated lecture and laboratory format. Special course fees may apply. Prerequisite, CHEM 3054 and CHEM 4243. Demand.
- CHEM 4263. Radiochemical Techniques** 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. Demand.
- CHEM 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.
- CHEM 4281. Chemistry Seminar** Preparation and presentation of a professional quality computer based seminar focusing on research completed during Research in Chemistry, CHEM 427V. Chemistry majors are required to take this course in their senior year. Prerequisite, third hour of CHEM 427V. Fall, Spring.
- CHEM 4343. Pharmacology** The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, BIO 2223 or BIO 3233, BIO 4104, and CHEM 4243. Spring.
- CHEM 4353. Advanced Analytical Chemistry** A discussion of principles and methods of application of analytical chemistry to problems of analysis and the significance of data. Special course fees may apply. Prerequisite, CHEM 3054. Demand.
- CHEM 4393. Special Problems** Selected special or current topics of interest to faculty and students that require prerequisite coursework. See individual semester schedules for more information about each offering. Registration restricted by permission of instructor. Demand.

Forensic Science (FOSC)

- 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.
- FOSC 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. Spring.
- FOSC 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.
- FOSC 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.
- FOSC 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.

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Geology (GEOL)

- 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.
- GEOL 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.
- GEOL 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. Demand.
- GEOL 4331. Hydrogeology Laboratory** Laboratory associated with GEOL 4333. Three hours per week. Corequisite, GEOL 4333. Demand.
- GEOL 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.

General Science (GSP)

- GSP 3203. Science for Teachers** Gives early childhood and middle school teachers an overall view of the role of science in the development of modern civilization, and enables teachers to use content knowledge to properly direct the learning activities of pupils in science classes. Special course fees may apply. Prerequisites, BIOL 1001 and 1003, and PHSC 1203 and 1201. Fall, Spring, Summer.
- GSP 3213. Glassworking** Manipulation of solid glass rods and glass tubing into finished products, including the making of novelty glass items, and the building and repairing of scientific glassware. Special course fees may apply. Demand.

Physical Science (PHSC)

- PHSC 1003. Making Connections Chemistry and Physics** Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.
- PHSC 1014. Energy and the Environment** A hybrid lecture and lab course that studies energy. What it is, how it is produced and used, and its effect on the environment. Special attention will be paid to individual energy usage and economical methods by which to reduce usage. Prerequisite, MATH 0013 or ACT Mathematics core of 16. Fall, Spring.
- PHSC 1201. Physical Science Laboratory** Two hours per week. Special course fees may apply. To be taken concurrently with PHSC 1203. Fall, Spring, Summer.

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PHSC 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)

PHYS 1101. Introduction to Space Science Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with PHYS 1103. Demand.

PHYS 1103. Introduction to Space Science A survey of the basic principles of science with emphasis on physics through their application to study about our place in the cosmos. Lecture three hours. This course will meet the general education requirements for physical science if taken with PHYS 1101. Special course fees may apply. Prerequisite, MATH 0013 or ACT Math score of 16. Demand.

PHYS 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 2054. This course will meet the General Education Requirements for Physical Science. Corequisite, MATH 2204. Fall, Spring.

PHYS 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, Physics 2034 or 2054. This course may be substituted for PHYS 2064 or for PHYS 2083 and 2081. Corequisite, MATH 2214. Fall, Spring.

PHYS 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. Prerequisite, MATH 1033 or higher. Fall, Spring, Summer.

PHYS 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.

PHYS 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. Demand.

PHYS 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. Demand.

PHYS 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. Demand.

PHYS 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. Demand.

PHYS 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. Fall.

PHYS 2393. Special Topics Selected special or current topics of interest to faculty and students that require no prerequisite courses. This course is appropriate for a general student audience. See individual semester schedules for more information about each offering. Demand.

PHYS 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.

PHYS 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.

PHYS 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. Demand.

PHYS 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. Fall.

PHYS 3203. Electromagnetic Theory Electrostatics, electric and magnetic properties of materials. Amperes and Faradays laws, and Maxwells equations. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 3254 and PHYS 2044. Spring.

PHYS 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. Spring, odd.

PHYS 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. Fall, odd.

PHYS 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. Spring, even.

PHYS 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. Fall.

PHYS 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.

PHYS 4393. Special Topics Selected special or current topics of interest to faculty and students that require prerequisite coursework. See individual semester schedules for more information about each offering. Registration restricted by permission of instructor. Demand.

PHYS 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.

PHYS 4432. Advanced Physics Laboratory I Experiments in classical and modern physics. Laboratory four hours per week. Special course fees may apply. Prerequisites, PHYS 2044. Fall, even.

PHYS 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. Spring, odd.

PHYS 4463. Advanced Mechanics The Lagrangian and Hamiltonian formulations, rigid body mechanics, and special relativity. Special course fees may apply. Prerequisite, PHYS 3153. Demand.

PHYS 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. Demand.

PHYS 4533. Solid State Physics Introductory study of the structure and physical properties of crystalline solids, including Xray 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.

PHYS 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.

PHYS 4571. Physics Seminar Prerequisite, Fourteen hours of physics. Special course fees may apply. Demand.

PHYS 459V. Research in Physics Prerequisite, Fourteen hours of physics. Special course fees may apply. Demand.

PHYS 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.

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DEPARTMENT OF COMPUTER SCIENCE

Computer Science (CS)

CS 1013. 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.

CS 1093. Making Connections Computer Science Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

CS 1114. Concepts of Programming Introduction to problem solving, algorithm development, and structured programming. Emphasis will be placed on problem solving and algorithm development. Designed as a first course for students seeking the Bachelor of Arts in Computer Science as well as non-majors. Prerequisite, MATH 1023. Fall, Spring.

CS 2114. 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, C or better in MATH 1023. Fall, Spring.

CS 2124. Object Oriented Programming Second course in programming, emphasis on data abstraction. Introduction to abstract data types. Linked lists, stacks, queues and binary trees. Searching and sorting techniques. Prerequisite, C or better in CS 2114. Fall, Spring.

CS 3113. Data Structures Analysis of data structures and associated algorithms. Examination of advanced tree structures, heaps, hashing techniques, and graph algorithms. Prerequisites, C or better in CS 2193, CS 2191 and MATH 2183, and MATH 2204 or MATH 2143 or MATH 2194. Fall.

CS 3123. Programming Languages Survey of organization and behavior of programming languages. Examination of data typing, control structures, syntactic representation and specification. Prerequisites, CS 2124. Spring.

CS 3213. Assembly Language Programming Basic concepts of computer systems and architecture. Programming and debugging of assembly language programs. Prerequisites, CS 2114. Fall.

CS 3223. 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 3213 and ECIE 3333. Fall, Spring.

CS 3233. Operating Systems Policies, design issues, and implementation techniques for operating system software. Synchronization, process scheduling, memory and storage management, and system protection. Prerequisite, CS 3213 or CS 3113. Fall.

CS 4113. 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 3113. Fall.

CS 4123. Software Engineering II Continuation of Software Engineering I. Projects will provide team programming experience. Prerequisite, CS 4113. Spring.

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- CS 4133. Compilers** Techniques for construction of compilers. BNF and EBNF representations. Lexical, syntactic and semantic analysis. Top down and bottom up parsing. Run time systems and code generation. Prerequisite, CS 3113. Spring, even.
- CS 4213. 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 3113. Demand.
- CS 4223. UNIX Systems Programming** System level programming in UNIX systems. Prerequisite, CS 3113. Spring, odd.
- CS 4313. Computer Networks** Issues and principles involved in the design of computer networks using the OSI reference model as a framework. Prerequisite, CS 3233. Spring.
- CS 4413. 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 3113. Fall, even.
- CS 4423. Computer Graphics II** Continuation of Computer Graphics I. Techniques for realistic solid modeling. Topics include hidden surface removal, shading, shadowing, reflection, refraction, and color theory. Prerequisite, CS 4413. Spring, odd.
- CS 4433. Artificial Intelligence** Representation of knowledge and introduction to a functional programming language, search methods and control. Typical applications of artificial intelligence. Prerequisite, CS 3113. Fall, odd.
- CS 4543. 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 3113. Fall.
- CS 4713. Analysis of Algorithms** Analysis of space and time requirements of algorithms. Worst case and average case studies. Greedy algorithms and divide and conquer algorithms. Tractable and intractable algorithms. Prerequisites, CS 3113 and MATH 2214. Fall, odd.
- CS 4723. 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 3113. Spring, even.
- CS 4811. 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 3113. Demand.
- CS 482V. 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 3113. Demand.
- CS 483V. 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 3113. Demand.

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DEPARTMENT OF MATHEMATICS AND STATISTICS

Methods and Materials Teaching Mathematics (EDMA)

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.

Mathematics (MATH)

MATH 0003. Introductory 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.

MATH 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.

MATH 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.

MATH 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.

MATH 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.

MATH 1093. Making Connections Mathematics Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

MATH 1143. Finite Mathematics Selected topics include linear systems, matrices, linear equalities, linear programming simplex method, probability, combinatorics, statistics and finance application. Prerequisites, MATH 1023. Demand.

MATH 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.

MATH 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.

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MATH 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.

MATH 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.

MATH 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. Fall, Spring.

MATH 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 1033 or MATH 1054. Fall, Spring, Summer.

MATH 2214. Calculus II Inverse trigonometric functions, hyperbolic functions, integration by parts, trigonometric substitution, partial fractions, integral tables, approximating definite integrals, Taylors 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.

MATH 3003. Geometry for Middle School Teachers Formal geometry in two and three dimensions, measurement, symmetry, congruence and similarity, coordinate geometry, constructions, conics. May not be used to satisfy the general education mathematics requirement. Prerequisite MATH 2113. Corequisite MATH 2123. Spring.

MATH 3133. Math for School Teachers III Mathematical systems of computation, geometry, algebra, probability and statistics with applications for the Middle School Teacher. This course may not be used to satisfy general education mathematics requirements. Prerequisites, Math 2113 and MATH 2123. Fall.

MATH 3243. Linear Algebra Introduction to vector spaces, with application to matrix theory. Prerequisite, MATH 2214. Spring, Summer.

MATH 3254. Calculus III Vectors, lines, and planes in two and three dimensions, vector valued functions, space curves, curvature and torsion, partial and directional derivatives, extrema of functions of several variables, optimization problems, double and triple integrals with applications, cylindrical and spherical coordinates, vector fields and line integrals, Greens Theorem and the divergence theorem. Prerequisite, MATH 2214. Fall, Spring, Summer.

MATH 3273. Applied Complex Analysis Survey of complex analysis with emphasis on developing skills needed for applications. Prerequisite, MATH 3254. Demand.

MATH 3303. Modern Algebra I Introduction to the theory of groups, rings, modules, and vector spaces, with emphasis on applications to the real number system. Prerequisite, MATH 2214. Fall.

MATH 3323. Mathematical Modeling Construction of mathematical models for use with problems in the mathematical sciences, operations research, engineering and the management and life sciences. Prerequisite, MATH 2214. Spring.

MATH 3343. College Geometry Geometric transformations and invariants. Prerequisite, MATH 2214. Spring.

MATH 3353. History of Mathematics Origin and development of modern mathematical concepts. Topics include systems of numeration, algebra, geometry, calculus, and the foundations of the real number system. Prerequisite, MATH 2214. Fall, odd.

MATH 4403. Differential Equations Topics in the elementary theory of differential equations, including existence theorems. Prerequisite, MATH 3254. Fall, Spring.

MATH 4423. Modern Algebra II Continuation of MATH 3303. Prerequisite, MATH 3303. Spring.

MATH 4513. Applied Mathematics Topics from ordinary and partial differential equations, including existence theorems. Prerequisite, MATH 3254. Fall, even.

MATH 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 2114. Fall, odd.

MATH 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.

MATH 4563. Advanced Calculus II Continuation of MATH 4553. Prerequisite, MATH 4553. Spring, Summer, even.

MATH 4581. Mathematics Seminar Prerequisite, MATH 3303. Demand.

MATH 459V. Special Problems in Mathematics Prerequisite, MATH 3303. Demand.

Statistics (STAT)

STAT 3233. Applied Statistics I For students in a variety of disciplines including the sciences, allied health fields, and education. Descriptive statistics for quantitative and qualitative data, normal distributions, correlation, linear regression, sample surveys, randomized comparative experiments, sampling distributions, estimation and hypothesis testing for means and proportions. Prerequisite, MATH 1023 or equivalent. Fall, Spring, Summer.

STAT 4453. Probability and Statistics I Probability spaces, random variables, probability distributions, independence, conditioning, probability laws, sampling theory, and associated topics. Prerequisite, MATH 3254. Fall.

STAT 4463. Probability and Statistics II Point and interval estimation, testing hypotheses, standard statistical tests, correlation and regression, and nonparametric methods. Prerequisite, STAT 4453. Spring.

STAT 4473. Applied Statistics II A second course in applied statistics covering topics in statistical inference for comparing population means and proportions, power, and sample size analyses, analysis of variance, ANOVA, and multiple comparisons procedures, nonparametric statistical procedures, chi square analyses, and inference for regression. Prerequisite, STAT 3233 or equivalent. Spring.

Teaching Internship (TIMA)

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.

LIBRARY AND INFORMATION RESOURCE

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.

MILITARY SCIENCE AND LEADERSHIP

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

MSL 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.

MSL 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.

MSL 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.

MSL 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.

MSL 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.

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MSL 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 four courses in the Basic Course, or completion of the ROTC Leaders Training Course or completion of Basic Training.

MSL 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.

MSL 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.

MSL 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.

MSL 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.

MSL 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.

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