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 (ADAG). 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).
The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php

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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 Registry of Counsellor Education Programs (Founding Member)
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.orau.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
Interim Provost and Executive 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.orau.org)

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
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<td>Orientation for New Faculty</td>
<td>August 16-17 (M-T)</td>
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<td>August 18 (W)</td>
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<td>College and Department Faculty Meetings</td>
<td>August 19-20 (R-F)</td>
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<td>Last Day for Admissions</td>
<td>August 20 (F)</td>
</tr>
<tr>
<td>Residence Halls Open</td>
<td>9:00 a.m. August 21 (Sa)</td>
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<tr>
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<tr>
<td>Regular Classes Begin</td>
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<td>August 29 (Su)</td>
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<td>Saturday Classes Begin</td>
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<tr>
<td>Labor Day Holiday</td>
<td>September 6 (M)</td>
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<tr>
<td>Last Day to Drop Session I Courses</td>
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<td>Session II Classes Begin</td>
<td>October 12 (T)</td>
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<td>Mid-semester Grades Due</td>
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<tr>
<td>Comprehensive Examination Results Reported to Graduate School</td>
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<td>Thesis/Dissertation and Oral Defense Results Reported to Graduate School</td>
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<tr>
<td>Commencement</td>
<td>2:00 p.m. December 18 (Sa)</td>
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<td>Residency Halls Open</td>
<td>9:00 a.m. January 7 (F)</td>
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<tr>
<td>Last Day for Admissions</td>
<td>January 7 (F)</td>
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<td>March 1 (T)</td>
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<td>Comprehensive Examination Results Reported to Graduate School</td>
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<td>Thesis/Dissertation and Oral Defense Results Reported to Graduate School</td>
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<td>April 11-15 (M)</td>
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<td>April 12 (T)</td>
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<tr>
<td>Last day to drop a course or withdraw from the University</td>
<td>April 13 (W)</td>
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<td>April 25 (M)</td>
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<tr>
<td>Study Day</td>
<td>April 26 (T)</td>
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<tr>
<td>Final Exams</td>
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</tr>
<tr>
<td>Residence Halls Close (for all students not graduating)</td>
<td>12:00 noon May 4 (W)</td>
</tr>
<tr>
<td>Graduating Senior Grades Due</td>
<td>12:00 noon May 5 (R)</td>
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Organization of the University

BOARD OF TRUSTEES—2010-2011

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

OFFICERS OF THE BOARD—2010-2011

Florine Tousant Milligan ......................................................... Chair
Howard Slinkard .................................................................. Vice-Chair
Ron Rhodes ........................................................................ Secretary

Officers of the University 2010-2011

Executive Officers

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
Interim Chancellor of the University
Professor of Educational Leadership in the Department of
Educational Leadership, Curriculum and Special Education

GLENDELL JONES, JR., 2002
B.B.A., Henderson State University
J.D., University of Arkansas - Fayetteville
M.L., University of Florida
Interim Executive Vice Chancellor and Provost
Assistant to the Chancellor for Diversity

EDWIN KREMERS, 1994
B.S., Arkansas Tech
Interim Executive Vice Chancellor and Provost
Vice Chancellor for University Advancement

CHRISTIAN MURDOCK, 2008
B.S., Oklahoma State University
M.Div., Southern Baptist Theological Seminary
Vice Chancellor for University Advancement

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

INTERIM PRESIDENT OF THE UNIVERSITY SYSTEM

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

INTERIM CHANCELLOR OF THE UNIVERSITY

G. Daniel Howard, B.S., M.S., M.P.H., H.S.D., Ph.D.
Officer of the University 2010-2011

Academic Deans
and
Chair of Independent Department

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

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

OSADHOHEN P. AMENYI, 1999
B.S., Tennessee State University
M.A., Northern Illinois University
Ph.D., Bowling Green State University
Interim Dean, College of Communications
—Professor of Radio-Television

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

DAVID BEASLEY, 2009
B.S., Mississippi State University
M.S., Mississippi State University
Ph.D., Purdue University
Dean, College of Engineering
—Professor of Engineering

DANIEL REEVE, 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

CAROL O’CONNOR, 2002
B.A., Manhattanville College
M.Ph., Yale University
Ph.D., Yale University
Interim Dean, College of Humanities & Social Sciences
—Professor of History

JEFF BAILEY, 1992
B.A., Morehead State University
M.L.S., Clarion University of Pennsylvania
Interim Dean, Library

JEFFREY A. HELMES, 2007
Chair, Independent Department of Military Science
B.S., U.S. Military Academy at West Point
M.S., Long Island University

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

ANDREW NOVOBILSKI, 2009
Dean, College of Sciences and Mathematics
B.S., Drexel University
M.S., University of Texas — Arlington
Ph.D., University of Texas — Arlington

MICHAEL BOWMAN, 1996
Interim Dean, Center for Regional Programs
B.S., Arkansas State University
M.S., Arkansas State University
Ph.D., Arkansas State University

LYNITA M. COOKSEY, 1993
Associate Vice Chancellor for Academic Services
B.S., Arkansas State University
M.S., Arkansas State University
Ph.D., Oklahoma State University

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

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

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B.S., Arkansas State University
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—Professor of Management

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B.S., Drexel University
M.S., University of Texas — Arlington
Ph.D., University of Texas — Arlington

MICHAEL BOWMAN, 1996
Interim Dean, Center for Regional Programs
B.S., Arkansas State University
M.S., Arkansas State University
Ph.D., Arkansas State University

LYNITA M. COOKSEY, 1993
Associate Vice Chancellor for Academic Services
B.S., Arkansas State University
M.S., Arkansas State University
Ph.D., Oklahoma State University

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

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The University

MISSION

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

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 over 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 1950. 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. ASU-Heber Springs, 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 600,000 books and periodical bound volumes, 580,000 federal and state documents, and 590,000 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 14 professional librarians and 22 support personnel acquire, organize, 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 large numbers of journals and books not housed within the library. Materials that are not contained in the library’s collection may be borrowed from other libraries through Interlibrary Loan. Special collections include 1) the Gilles 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 Stinnett, Faith Yingling Knoop; and 4) a collection of Arkansas author John Gould Fletcher.

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

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

16 17
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.

ARKANSAS HERITAGE SITES

Arkansas Heritage SITES (System Initiatives for Technical and Educational Support) at Arkansas State University develops and operates heritage sites of regional and national significance in the Arkansas Delta. These sites provide educational resources for formal and informal learning, including serving as laboratories for the Heritage Studies Ph.D. program. In addition, they serve as economic catalysts in communities where they are located by attracting heritage tourists from around the country. These sites currently include the Hemingway-Pfeiffer Museum and Educational Center in Piggott, the Southern Tenant Farmers Museum in Tyronza, and the Lakeport Plantation in Lake Village.

MUSEUM

The Arkansas State University Museum is located on ASU-Jonesboro’s central campus in the west wing of the Dean B. Ellis Library building. The Museum serves the academic mission of the University as a teaching museum and provides quality programming that broadens the perceptions and aspirations of people in Northeast Arkansas and the Mississippi River Delta region, connects people with their history, promotes tolerance, engages minds in progressive thinking, and enhances the sense of community among all audiences. The ASU Museum is one of fewer than 800 museums in the US accredited by the American Association of Museums.

With 15,000 square feet of exhibit space and more than 60,000 regionally acquired objects, the ASU Museum is a veritable treasure of Northeast Arkansas history, culture, and natural history. Long-term exhibits feature fossils of aquatic life going back 300 million years ago, a fully articulated Mastodon skeleton replica based on actual bones found in Northeast Arkansas, a gallery on prehistoric Native American life and culture, artifacts illustrating early settlement in Northeast Arkansas (“Living Off the Land”), period exhibits highlighting shops typical of regional towns dating 1880–1950 (“Old Town Arkansas”), a military gallery, decorative arts, and more.

Multiple exhibits and activities target children, including a hands-on exhibit about the New Madrid fault zone, a learning lab, and changing hands-on children’s exhibits and programs. iPod tours and audio enhance the experience of select exhibits. Family-oriented events celebrate Black History Month (February), Archaeology Month (March), and Día de los Muertos (November). Juried children’s art from area schools is featured every April in “Through a Child’s Eyes.”

Museum staff members teach museum studies classes offered through ASU’s History Department and Heritage Studies Program. Classes provide significant real-life experience and instruct in collections management practices, museum law, interpretation, and exhibit development. The exhibit class series culminates with a student-curated exhibition.

The Museum is open Tuesday, 9:00 AM–7:00 PM; Wednesday–Saturday, 9:00 AM–5:00 PM; and Sunday, 1:00–5:00 PM, with closure on Mondays and University holidays. Free tours are available by appointment (870-972-2074). Limited free parking is available in the parking lot south of the Museum. School buses and large groups, please call for parking instructions.

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.

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
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. Official transcripts should be sent to: Office of the Registrar, P.O. Box 1570, State University, AR, 72467.
6. Proof of (2) immunizations for measles, mumps, and rubella. The vaccine must have been received after the first birthday and after 1/1/88.
7. A minimum ACT composite score of 17 and a minimum high school GPA of 2.50. 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 ACT 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 time 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 of 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.

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:

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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 0003, BASIC WRITING.

Students must earn a grade of "C" or better in UC 0003 and/or UC 0003 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.

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 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, and rubella. 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.

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 2.00 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. College transcripts should be sent to: Office of the Registrar, P.O. Box 1570, State University, AR, 72467.

4. Transfer students with a cumulative GPA of less than 2.00 upon approval of the Undergraduate Admission Committee, may be admitted on academic probation, restricted to 12 hours of enrollment and required to participate in the Restart@astate program.
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.

ADMISSION AND ENROLLMENT OF INTERNATIONAL STUDENTS

Arkansas State University provides access to a quality education for international students at an affordable cost, in a caring and supportive environment. A citizen of a nation other than the United States of America wishing to apply for admission to Arkansas State University should write to the Office of International Programs, Arkansas State University, P.O. Box 2230, State University, AR 72467 USA or email international@astate.edu. Future international students may also visit our website at http://www.astate.edu/international.

The 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 their 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 —
   - Completing ASU’s ESL Program with a minimum grade of 80% or above
   - TOEFL – Paper-Based 500 – (ASU’s Code:5011)
   - TOEFL – Computer-Based 173– (ASU’s Code:6011)
   - TOEFL – Internet-Based 61– (ASU’s Code:6011)
   - IELTS – Academic 5.5–
   - TOEFL – CEE (British Council) 600– (ASU’s Code:6011)
   - TOEFL – Paper-Based 500–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–
   - TOEFL – Internet-Based 61–
   - IELTS – Academic 5.5–

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 the following link) http://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 $528.00, is added to each semester’s tuition bills.

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

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### Fees and Expenses

http://www2.astate.edu/a/finance-admin/student-accounts/tuition-fees/

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://www2.astate.edu/a/finance-admin/student-accounts/tuition-fees/](http://www2.astate.edu/a/finance-admin/student-accounts/tuition-fees/)

### Geographic Programs—General Registration Fees Per Term

#### ASU - Paragould

**Freshmen / Sophomore Level Classes**

- Greene County Residents: $60.00
- Non-Greene County Residents: $170.00

**Junior / Senior Level Classes**

- All Arkansas Residents: $170.00
- Non-Arkansas Residents: $444.00

**Note:** Greene County Freshmen and Sophomore Level classes are only assessed the $10/hr Technology Fee. All other classes are assessed the Required Hourly and Semester Fees noted on previous page in addition to tuition.

### Degree Centers Per Hour

**Arkansas Resident Tuition - Undergraduate** $216.00

**Arkansas Resident Tuition - Graduate** $248.00

**Non-Resident Tuition - Undergraduate** $488.00

**Non-Resident Tuition - Graduate** $581.00

All Degree Centers’ Classes are assessed the following PER HOUR in addition to tuition:

- Technology Fee: $10.00
- Institutional Host Fees:
  - ASU - Beebe: $25.00
  - ASU - Mountain Home: $20.00
  - Arkansas Northeastern College: $20.00
  - East Arkansas Community College: $20.00
  - Mid-South Community College: $20.00

### Refund of Fees Schedule

**Semester Five-Week Terms**

<table>
<thead>
<tr>
<th>Period</th>
<th>Refund Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st - 5th class day</td>
<td>100%</td>
</tr>
<tr>
<td>6th - 10th class day</td>
<td>75%</td>
</tr>
<tr>
<td>On or after 11th class day</td>
<td>None</td>
</tr>
</tbody>
</table>

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

To access downloadable tuition and fee tables, go to Student Accounts at [http://www2.astate.edu/a/finance-admin/student-accounts/tuition-fees/](http://www2.astate.edu/a/finance-admin/student-accounts/tuition-fees/)
RESIDENCY REQUIREMENTS FOR FEE PAYMENT

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

MISCELLANEOUS FEES*

<table>
<thead>
<tr>
<th>Flat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Clemency Processing Fee</td>
</tr>
<tr>
<td>Undergraduate Graduation Fee</td>
</tr>
<tr>
<td>Masters</td>
</tr>
<tr>
<td>Specialist</td>
</tr>
<tr>
<td>Doctorate</td>
</tr>
<tr>
<td>Student Activity Fee (Fall and Spring semesters only)</td>
</tr>
<tr>
<td>Application for Admission Processing Fee</td>
</tr>
<tr>
<td>International Students</td>
</tr>
<tr>
<td>United States Citizens</td>
</tr>
<tr>
<td>ASU Assessment Fee</td>
</tr>
<tr>
<td>Fee for International Students requiring third party billing</td>
</tr>
<tr>
<td>Late Payment of Tuition Fee</td>
</tr>
<tr>
<td>Penalty for Checks Returned for Insufficient Funds, etc.</td>
</tr>
<tr>
<td>Installment Fee</td>
</tr>
<tr>
<td>Tuition Deferral</td>
</tr>
<tr>
<td>Audit Fee/Credit hour</td>
</tr>
</tbody>
</table>

Special fees for some departments are shown with the respective departments.

NOTE: Undergraduate 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, Red Wolf Den and The Village rentals)

3. A permanent identification card will be issued to students during the first semester of attendance. Students will use this card to access residence halls, parking lots, laundry, and dining services venues. 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 cafeterias will be open during the periods classes are in session. Vacation periods (fall break, spring break, winter break, and Interims) 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 at (870) 972-2285.

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

**RESIDENCE LIFE ROOM RATES 2010 Fall - 2011 Spring**

<table>
<thead>
<tr>
<th>Residence Halls</th>
<th>Double</th>
<th>Single</th>
<th>Single Deluxe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas Hall</td>
<td>$1,660.00</td>
<td>$2,050.00</td>
<td>$2,100.00</td>
</tr>
<tr>
<td>Kays Hall</td>
<td>$1,660.00</td>
<td>$2,050.00</td>
<td>N/A</td>
</tr>
<tr>
<td>University Hall</td>
<td>$1,660.00</td>
<td>$2,050.00</td>
<td>$2,100.00</td>
</tr>
<tr>
<td>Northpark Quads (Bldgs 2-5)</td>
<td>N/A</td>
<td>$1,860.00</td>
<td>N/A</td>
</tr>
<tr>
<td>Northpark Quads (Bldg 1)</td>
<td>N/A</td>
<td>$1,985.00</td>
<td>N/A</td>
</tr>
<tr>
<td>Honors Living Learning Community</td>
<td>$1,675.00</td>
<td>$1,875.00</td>
<td>N/A</td>
</tr>
<tr>
<td>ROTC</td>
<td>N/A</td>
<td>$1,875.00</td>
<td>N/A</td>
</tr>
<tr>
<td>STEM Den</td>
<td>N/A</td>
<td>$1,875.00</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Single and Single Deluxe Rooms are only available space permitting.*

<table>
<thead>
<tr>
<th>Apartments</th>
<th>Bed</th>
<th>Bath</th>
<th>Single</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collegiate Park</td>
<td>2</td>
<td>2</td>
<td>$2,060.00</td>
</tr>
<tr>
<td>Collegiate Park</td>
<td>2</td>
<td>1</td>
<td>$1,860.00</td>
</tr>
<tr>
<td>Collegiate Park</td>
<td>4</td>
<td>2</td>
<td>$1,760.00</td>
</tr>
<tr>
<td>Collegiate Park Townhouse</td>
<td>4</td>
<td>2</td>
<td>$1,810.00</td>
</tr>
<tr>
<td>Red Wolf Den</td>
<td>2</td>
<td>1</td>
<td>$1,540.00</td>
</tr>
<tr>
<td>Red Wolf Den</td>
<td>3</td>
<td>1</td>
<td>$1,785.00</td>
</tr>
<tr>
<td>Red Wolf Den</td>
<td>4</td>
<td>2</td>
<td>$1,810.00</td>
</tr>
</tbody>
</table>

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

Meal plans are mandatory for all residence hall students and optional for students living in the apartments and The Village and commuter students. Meal plans may only be changed prior to the opening date for the residence halls. The purchase of any meal plan is dependent on year classification.

Students with the 5-day meal plan may enter the Acansa Dining Hall unlimited times Monday through Friday. Students with the 7-day meal plan may enter the Acansa Dining Hall unlimited times each day of the week.

Students with a block meal plan may dine in the Acansa, up to the number of block meals purchased. The Block plan also allows the holder to use the plan to bring in guests. Each guest will reduce the block by one meal.

The number after the "+" indicates flex dollars. Flex Dollars operate like a declining balance account that can be used at any of our dining venues, including Acansa Dining Hall, the Food Court, the Campus Store, and Café a la Cart. Unused flex dollars will carry over from fall to spring if a spring board plan is purchased, but they must be used by the end of the spring semester to avoid forfeiture.

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 or older. 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 (870)972-2042.

To access downloadable room and board fee tables, go to the Residence Life website at http://www2.astate.edu/a/student-affairs/residence-life/current-students/room-and-board-rates/
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: the student’s name; local and permanent physical addresses; electronic mail addresses; telephone listings; photographs and electronic images; date and place of birth; major field of study; participation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees and awards received; and the most recent previous educational agency or institution attended by the student.

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.

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.

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. 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.

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.

TRANSFER CREDIT POLICY

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

Transfer work will be entered on the student’s permanent academic record when an official transcript is presented to the University from a regionally accredited institution. All other transfer work received is evaluated and considered on a case by case basis in the Registrar’s Office in conjunction with Academic Affairs and Office of International Programs (as applicable).

ASU will consider awarding credit toward an Associate or a Baccalaureate degree for Advanced Placement (AP), College Level Examination program (CLEP), Military service education and experience, formal non college courses for which credit has been recommended as listed in the Directory of National Program on Non Collegiate Sponsored Instruction and in the National Guide to Educational Credit for Training Programs published by ACE, International Baccalaureate, and Excelsior College Exams.

Note: Transfer credit may not satisfy specific General Requirements For All Baccalaureate Degrees like the minimum grade requirement for English. Transfer credit may not satisfy specific degree requirements. Students must review the university requirements and specific major requirements required for their degree.

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 to the academic record when concurrently enrolled at ASU-Jonesboro 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.

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

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

REGISTRATION

All students are expected to register for classes on the days designated on the Registrar's web page (http://registrar.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 that students have completed plus the number of hours in which students are currently enrolled.

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

Also, students should be aware that, once they have registered for classes, tuition and 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).

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:

<table>
<thead>
<tr>
<th></th>
<th>Spring</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>spring semester</td>
<td>fall semester</td>
</tr>
<tr>
<td>Offered</td>
<td>offered odd-numbered years</td>
<td>offered even-numbered years</td>
</tr>
<tr>
<td>upon demand</td>
<td>Even</td>
<td>Demand</td>
</tr>
<tr>
<td>(with sufficient enrollment)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 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 (http://registrar.astate.edu) for each semester.

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 (http://registrar.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.

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.

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

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

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

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 associate degree program, with a minimum of 60 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. The student is unable to graduate at the end of the semester for which application has been made, and 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.

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

UNIVERSITY GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREES
Each candidate for a baccalaureate degree must meet the following general requirements:
1. Complete the General Education curriculum, with substitutions/additions listed under the description of each degree program. (Transfer students see note under General Education Curriculum for Baccalaureate Degrees.)
2. Meet the English proficiency requirement. Complete ENG 1003 with a grade of C or better before enrolling in ENG 1013. Complete ENG 1013 with a grade of C or better. Students who are not pursuing a teacher education degree (B.S.E.-B.S. E.-B.S. A. (Ag. Ed.) and who have earned lower than a 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-graduate-granting institution. A maximum of 25 percent of a baccalaureate degree program may be earned through credit by examination (including CLEP) advancement 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 67 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.

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

GRADES AND GRADING SYSTEM

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

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

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

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

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

“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.)

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.

FN - FAILURE TO ATTEND AND NOT WITHDRAWN

Faculty assign a grade of FN to students who have quit attending class but do not officially drop or withdraw. The FN indicates the grade of ‘F’ has been earned due to lack of attendance and not necessarily lack of understanding the material. Students are encouraged to notify their instructor of their intention to drop or withdraw from a course. However, the notification does not constitute the drop or withdrawal. Students must still process their drop or withdrawal in Banner Self Service or with Advisement Services. Students should review their schedule of classes using Web for Students to make sure their enrolment is accurate.

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

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
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. Logging into an on-line course is considered the same as attendance for "WN" purposes.

Students should review their schedule of classes using Web for Students to make sure their enrollment is accurate. Students who find a mistake need to contact the Registrar's Office for proper procedures immediately upon discovery. The WN grade will only be granted or may be appealed through the first day of classes of the following fall or spring semester, whichever comes first.

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 (inters, 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 "WN" 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 a 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.
2. 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.
3. 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.
4. 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.
5. 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.

(b) An activated student 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 initiation to withdraw the process.

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. ($30 fee)

*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. ASU will honor the Academic Clemency granted by another institution, but will recognize ONLY the clemency from that particular institution.

This process will be recorded in the student's permanent record; however, it will NOT be noted on the transcript. The date of the clemency will coincide with the date of re-entry following the prolonged separation.

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

1. The student must have earned a grade of D or F in the course.
2. Students may repeat up to 18 semester hours.
3. All other repeated courses will have both grades counted. Degree hours will be applied only once toward graduation requirements.
4. Students may not repeat for credit any course in which they have earned a grade of C or better.
5. Courses repeated must be the exact course. Students may not use substitutions for repeated courses.

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.

Students who are planning to apply for admission to graduate school should take note that most graduate/professional schools recalibrate 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.

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

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

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ADVANCED PLACEMENT CREDIT

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

<table>
<thead>
<tr>
<th>Placement Exam</th>
<th>Minimum AP Score for Credit</th>
<th>ASU Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History</td>
<td>3</td>
<td>HIST 2763</td>
</tr>
<tr>
<td>American History</td>
<td>4</td>
<td>HIST 2763 &amp; HIST 2773</td>
</tr>
<tr>
<td>Art 2D Design</td>
<td>3</td>
<td>ART 103</td>
</tr>
<tr>
<td>Aural Perception</td>
<td>3</td>
<td>MUS 1411</td>
</tr>
<tr>
<td>Aural Perception</td>
<td>4</td>
<td>MUS 1411 &amp; MUS 1421</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>BIOL 1003</td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
<td>BIOL 1003 &amp; 1001</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3</td>
<td>MATH 2204</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>4</td>
<td>MATH 2204 &amp; MATH 2214</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3*</td>
<td>CHEM 1013 &amp; 1011</td>
</tr>
<tr>
<td>English Lit/Comp or Lang/Comp</td>
<td>3</td>
<td>EN 1003</td>
</tr>
<tr>
<td>English Lit/Comp or Lang/Comp</td>
<td>4</td>
<td>EN 1003 &amp; EN 1013</td>
</tr>
<tr>
<td>English Lit/Comp and Lang/Comp</td>
<td>3</td>
<td>EN 1003 &amp; EN 1013</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3</td>
<td>BIOL 1003</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>4</td>
<td>BIOL 1003 &amp; BIOL 1001</td>
</tr>
<tr>
<td>European History</td>
<td>4</td>
<td>HIST 1023</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3**</td>
<td>FR 2013, GER 2013 or SPAN 2013</td>
</tr>
<tr>
<td>Government &amp; Politics: US</td>
<td>4</td>
<td>POSC 2103</td>
</tr>
<tr>
<td>History of Art</td>
<td>3</td>
<td>ARTH 2583</td>
</tr>
<tr>
<td>History of Art</td>
<td>5</td>
<td>ARTH 2593 &amp; ARTH 2593</td>
</tr>
<tr>
<td>Music Listening &amp; Literature</td>
<td>3</td>
<td>MUS 2503</td>
</tr>
<tr>
<td>Music Theory</td>
<td>3</td>
<td>MUS 1413</td>
</tr>
<tr>
<td>Music Theory</td>
<td>4</td>
<td>MUS 1413 &amp; MUS 1423</td>
</tr>
<tr>
<td>Physics B</td>
<td>3</td>
<td>PHYS 2054 &amp; PHYS 2064</td>
</tr>
<tr>
<td>Physics C (Electricity, Magnetism)</td>
<td>4</td>
<td>PHYS 2083 &amp; 2081 or PHYS 2044</td>
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<tr>
<td>Physics C (Mechanics)</td>
<td>4</td>
<td>PHYS 2073 &amp; 2071 or PHYS 2034</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>PSY 2013</td>
</tr>
<tr>
<td>Statistics</td>
<td>4</td>
<td>STAT 3233</td>
</tr>
<tr>
<td>Studio Art (Drawing Portfolio)</td>
<td>3</td>
<td>ART 1033</td>
</tr>
<tr>
<td>World History</td>
<td>4</td>
<td>HIST 1013</td>
</tr>
</tbody>
</table>

*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 grades on their permanent records after they have been enrolled at Arkansas State University for a full summer or semester.

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

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Sem. Hours</th>
<th>Exam Type</th>
<th>CLEP Exam</th>
<th>Min. Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1003</td>
<td>3</td>
<td>G</td>
<td>Composition</td>
<td>52</td>
</tr>
<tr>
<td>ENG 1003 &amp; ENG 1013</td>
<td>6</td>
<td>G</td>
<td>Composition</td>
<td>62</td>
</tr>
<tr>
<td>ART 2503</td>
<td>3</td>
<td>G</td>
<td>Humanities</td>
<td>51</td>
</tr>
<tr>
<td>ENG 2003 &amp; 2013</td>
<td>3</td>
<td>G</td>
<td>Humanities</td>
<td>51</td>
</tr>
<tr>
<td>ACCT 2033</td>
<td>3</td>
<td>S</td>
<td>Intro. to Financial Accounting</td>
<td>50</td>
</tr>
<tr>
<td>ECON 2313</td>
<td>3</td>
<td>S</td>
<td>Prin. of Macroeconomics</td>
<td>55</td>
</tr>
<tr>
<td>ECON 2323</td>
<td>3</td>
<td>S</td>
<td>Prin. of Microeconomics</td>
<td>55</td>
</tr>
<tr>
<td>HIST 1013</td>
<td>3</td>
<td>S</td>
<td>Western Civilization I</td>
<td>44</td>
</tr>
<tr>
<td>HIST 1023</td>
<td>3</td>
<td>S</td>
<td>Western Civilization II</td>
<td>50</td>
</tr>
<tr>
<td>HIST 2763</td>
<td>3</td>
<td>S</td>
<td>History of U.S. I</td>
<td>58</td>
</tr>
<tr>
<td>HIST 2773</td>
<td>3</td>
<td>S</td>
<td>History of U.S. II</td>
<td>51</td>
</tr>
<tr>
<td>MGMT 3123</td>
<td>3</td>
<td>S</td>
<td>Prin. of Management</td>
<td>50</td>
</tr>
<tr>
<td>MKTG 3013</td>
<td>3</td>
<td>S</td>
<td>Prin. of Marketing</td>
<td>50</td>
</tr>
<tr>
<td>POSC 2103</td>
<td>3</td>
<td>S</td>
<td>American Government</td>
<td>51</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>3</td>
<td>S</td>
<td>Intro. to Psychology</td>
<td>47</td>
</tr>
<tr>
<td>SOC 2213</td>
<td>3</td>
<td>S</td>
<td>Intro. to Sociology</td>
<td>53</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>3</td>
<td>S</td>
<td>College Algebra</td>
<td>50</td>
</tr>
</tbody>
</table>

CREDIT BY EXAMINATION

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

College Level Examination Program (CLEP)

The university awards a maximum of thirty semester hours of university credit through CLEP. If a student has attained university-level knowledge in one or more subjects, the achievement may be recognized by the university granting credit for related college courses, provided a satisfactory score is earned in the approved CLEP examination. 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

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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 last 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 Program" or in "University Honors."

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 3.60 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.

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.

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
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.

Restart@astate Program: Students on a first academic suspension, who have not participated in Restart@astate and wish to return to ASU-Jonesboro, must seek enrollment into Restart if they are returning to ASU within two calendar years. Students must first seek approval from the Wilson Advising Center in order to participate in Restart, then complete the application process and attend a Restart workshop before classes begin for the semester. Restart@astate is a fall, spring and summer program option. Program fees do apply.

During the Restart semester, students will be allowed to enroll in up to 12 hours plus the one-hour Restart Seminar. Students who withdraw from the university, are administratively withdrawn or fail the Restart Seminar will serve a mandatory separation period from the university and all other institutions of higher education the following semester. Successful completion of the Restart@astate program requirements, however, will allow enrollment during the subsequent enrollment period, provided the student meets the necessary GPA and other requirements stated in the Restart contract.

First Suspension: Students who are suspended for the first time must enroll in the Restart@astate program. (See procedures for enrollment under the Restart@astate program.) All students considering taking coursework at another institution while on first suspension from ASU are strongly advised to meet with their ASU academic advisors for guidance on appropriate coursework selection. (See section on transferring coursework while on first suspension.)

Second Suspension: Students who earn a second suspension are not permitted to enroll at ASU for one calendar year. Students returning to ASU after serving a second suspension must first seek approval to re-enroll from the Undergraduate Gradation and Academic Credits Appeals Committee. Upon approval for re-enrollment, students must readmit with the institution and complete an Academic Suspension Clearance form in the Wilson Advising Center before registering for classes.

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: Students who earn a third or subsequent suspension are not permitted to enroll at ASU for two calendar years. Students returning to ASU after serving a third or subsequent suspension must first seek approval to re-enroll from the Undergraduate Gradation and Academic Credits Appeals Committee. Upon approval for re-enrollment, students must readmit with the institution and complete an Academic Suspension Clearance form in the Wilson Advising Center before registering for classes.

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

Transferring Work from Other Institutions while on First Suspension: ASU will require 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@astate 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 taken per the ASU recomputation policy (taking course work that was earned at ASU with a grade below “C”); and/or
(c) is designated by ASU as 1000- or 2000-level.

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.
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 MANAGEMENT CENTER

The Career Management Center offers a variety of employment and career oriented services and programs to assist students with their career, professional and personal growth and development.

Individual career consultation is available to help you assess, evaluate and explore career and major options. A comprehensive website and Online and On ground Resource Centers include salary information; current recruiting trends; job posting and resume database system; career assessment tools; information regarding exploring majors; tips on resume development; job search, interviewing, and networking; Internet videos on professional career related topics; information related to internships; electronic monthly newsletter; and graduate school guide and much more.

The Career Management Center sponsors numerous career events that include a part-time and work study job fair, career fairs, graduate school fair, career weeks, workshops, seminars and presentations on topics related to career management.

The Center posts openings for career jobs, internships, part-time, and Federal Work Study jobs. Employers post jobs and search for candidates on a daily basis through Career Connect. Employer interview schedules for the on-campus interviewing program also are available through the Career Connect system.

For assistance or more information visit the website at http://careers.astate.edu. Please contact us by visiting our office at 2167 in the Student Union, or call 870-972-3025.

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. Counseling services are performed by psychologists, counselors, counseling interns, and counseling practitioners. 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.

DISABILITY SERVICES

Disability Services (DS) provides students with disabilities access to resources that will enable them to manage daily activities in the university setting. Disability Services is committed to providing opportunities in higher education for students with disabilities who demonstrate reasonable ability for college success. Although DSU does not offer a specialized curriculum for persons with disabilities or assume the role of a rehabilitation center, it offers a variety of support services so that students with disabilities are admitted and integrated as completely as possible into the university. Responsibility is shared with the student for modifying campus facilities and programs to meet individual needs. For example, some students may need interpreters, whereas other students may hear or read lips well enough to use classroom note takers. In some cases, students may require both services. Students registered with DS have access to resources that will enable them to manage daily activities in the university setting.

ASU offers physical and technological access as well as auxiliary aids, accessible facilities, and reasonable accommodations for the classroom. Physical and programmatic access are also provided. For additional information, please visit our Disability Services’ website at http://disability.astate.edu, or call 870-972-3964

FINANCIAL AID & SCHOLARSHIPS

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

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

The office seeks to obtain maximum funding for all aid programs—federal, institutional, and state sources. Detailed information and financial aid application forms may be obtained by visiting our website at http://www2.astate.edu/finaid/.

All applications for federal student assistance must be received by the Financial Aid and Scholarships Office prior to June 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 Direct Parent Loan for Undergraduate Students
- Federal Pell Grants
- Federal Perkins Student Loan
- Federal Direct Student Loan (subsidized and unsubsidized)
- Federal Supplemental Educational Opportunity Grants

State Programs

- Arkansas Academic Challenge/Lottery Scholarship
- Distinguished Governor’s Scholarship
- Governor’s Scholarship
- Higher Education Opportunities Grant (GO! Opportunities Grant)
- Law Enforcement Officer’s Dependents Scholarship
- Military Dependents Scholarship Program
- State Teacher Education Program (STEP Program)
- Workforce Improvement Grant (WIG)

Detailed information and application may be obtained by visiting the Arkansas Department of Higher Education website at www.adhe.edu.

University Aid Programs (see below for details)

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

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

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The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
for personal, social, cultural, and intellectual development within the campus environment. Specific goals include: (1) improve students’ basic skills as required for the selection and achievement of educational goals; (2) assist students in their selection and pursuit of career and vocational choices; (3) provide direction and guidance for students in their personal, social, and cultural development; and (4) 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 office of the vice chancellor for Student Affairs is located in the Administration Building, room 223. Visit the website at http://studentaffairs.astate.edu, or call 870-972-2048.

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://www2.astate.edu/studentconduct/. 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 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://www2.astate.edu/studentconduct/.

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

The Student Health Center (SHC) is a health services facility where currently enrolled students who attend classes on the ASU campus may receive treatment for minor illnesses, injuries, and chronic health conditions. The SHC also provides general physical exams, including specific female and male exams, and immunizations. The staff includes two nationally certified Advanced Nurse Practitioners, and a Nurse Health Educator. Students majoring in athletic training, health promotion, and nursing also work rotations at the clinic.

The SHC is located on Stadium Boulevard adjacent to the Student Union and the Sports Medicine facilities. The entrance to the facility faces the football stadium parking lot. The SHC is open from 8:00 a.m. to 5:00 p.m. Appointments are required but walk-ins are welcome from 8:00 to 9:00 a.m. and 1:00-2:00 p.m. Call 870-972-2045 to schedule an appointment. Immunizations are administered daily without an appointment but students are encouraged to arrive between 11:00 a.m. and 1:00 p.m. to avoid a longer wait as they are worked in between scheduled appointments.

If an ambulance is needed to transport a student from one of the residence halls, please contact a staff member to ensure proper and quick service. Arkansas State University does not assume responsibility for payment of patient transport services, emergency room fees, prescription, or outside tests (x-rays, lab work, etc.)

The university offers students the opportunity to purchase accident and hospitalization insurance policy. 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. Additional information is available on the SHC website and brochures are available at the SHC.

Visit the Student Health Center website at http://www2.astate.edu/healthcare.

STUDENT UNION

The Student Union provides students with a centralized location for attending to many of their needs while at ASU. Acansa Dining Hall and the Food Court area are located on the first level. Many student service offices are located in the facility, including: Admissions, Student Account Services, Cashier’s Window, Financial Aid and Scholarships, Leadership Center, Career Management Center, Counseling Center, Disability Services, Registrar, Residence Life, Testing Center, Student Government Association, Student Activities Board, Non-Traditional Services, the ASU Bookstore, and the Multicultural Center. Meeting rooms are available for reservation by registered student organizations for meetings, conferences, and events.

The Campus Information Booth, located on the second level of the Student Union, is your source for happenings at ASU. The staff is trained to answer questions about the Student Union, ASU, and the community. Brochure racks located on the counters provide information about departments at ASU and the services they provide. Popular magazines are available to check out and read in one of the many lounges. Jonesboro city maps and JETS bus schedules may be obtained there as well. The Student Union Information Center is the distribution point for the Student Planner, Yearbook, Jonesboro Sun, and twice weekly editions of “The Herald.” Items found in the Student Union are brought to the Campus Information Booth and secured and documented until claimed. Whether helping a student find a classroom or providing information about activities on campus, the Student Union and Campus Information strive to provide students with a friendly atmosphere where questions are always welcomed.

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. Students are provided with a central location to coordinate and supervise all 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) **

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
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.

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 rmartin@astate.edu.
We are located at 503 Robinson 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.

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 also 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 Office in the Office of the Registrar at (870) 972-2031 or (870) 972-3402.

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 (870) 972-3112 or visit our website at http://cp.astate.edu/pride/

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 Student Account Services.

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 Leadership Center, (870) 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
- Agriculture Council
- Alpha Tau Alpha
- ASU Rodeo Club

College of Business
- Association of Information Technology Professionals (AITP)
- ASU Marketing Club
- Bank Club
- Commercial Banking Club
- Financial Management Association (FMA)

College of Communications
- American Advertising Federation
- Association for Women in Communications
- Gamma Epsilon Tau
- National Broadcasting Society
- Pi Alpha Theta

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

College of Engineering
- 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
- ASU Art Student Union
- ASU Guitar Guild

College of Humanities and Social Sciences
- Alpha Kappa Delta
- ASU Model Arab League
- ASU Philosophy Club
- ASU Model UN
- Criminology Club
- Gamma Theta Upsilon

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
- Society of Radiologic & Imaging Sciences

College of Sciences and Mathematics
- American Chemical Society
- Mathematical Association of America
- Association of Computing Machinery
- Society for Physics Students
- Kappa Mu Epsilon

Department of Military Science
- ROTC Ranger Challenge Platoon

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, and the recognition of Distinguished Alumni, participants can stay informed, involved and committed to the ASU community. They also receive special benefits such as discounts and a regular e-newsletter, 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.

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

**ALPHATAUALPHA**—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**—AIAG, the professional association for design. AIAG 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 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 UPIBOLON**—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 EPSILON TAU**—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 sciences 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.

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

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 for 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 PHI—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 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—Encourages 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 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.

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For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
REMEMBER THE MISSIONS AND THE CALLings.


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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: 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 Enthusiast: 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 Army ROTC Program this group works to teach marksmanship and to compete at collegiate level competitions.

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.

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.

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
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, in print and online, by the University. 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 Chancellor 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 364 patrons, houses state-of-the-art lighting, sound and rigging systems. A program of student-directed laboratory theatre productions is presented in the black box experimental theatre, which seats up to 200 in a variety of configurations. Participation in these production programs provides experience not only for drama students but also for all students of the university, who are encouraged to take part in University Theatre activities.

The 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
Academic Programs

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

Associate of Applied Science (A.A.S.)
Clinical Laboratory Science
Clinical Laboratory Technician
*Crime Scene Investigation
Food Technology

Associate of Applied Science in Nursing (A.A.S.N.)
Nursing
—LPN to RN

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

Associate of Science (A.S.)
Computer and Information Technology
Technology
En Route Associate of Arts (A.A.) - General Education
En Route Associate of Science (A.S.) - General Education

Bachelor of Arts (B.A.)
Art (emphasis in):
—Art History
Chemistry (emphasis in):
—Pre-Medicine
Communication Studies
Computer Science
Criminology
Economics (emphasis in):
—Pre-Law
English
Geography
History
Music
Philosophy
Political Science
Sociology
Theatre
World Languages and Culture

Bachelor of Applied Science (B.A.S.)
Manufacturing Technology
Renewable Energy Technology

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

Bachelor of Music Education (B.M.)
Composition
Guitar
Keyboard

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

Bachelor of Science (B.S.)
Accounting
Athletic Training
Biological Sciences (emphasis on):
—Biology
—Botany
—Environmental Biology
—Pre-professional Studies
—Zoology
Business Administration
Business Economics
Chemistry (emphasis on):
—Chemistry
—Environmental
—Pre-professional
Clinical Laboratory Science
Communication Disorders
Computer and Information Technology
Computer Science
Exercise Science
Finance (emphasis on):
— Banking
— General Finance
Forensic Science
Health Promotion
International Business
Journalism (emphasis on):
— Advertising
— News-Editorial Journalism
— Photojournalism
— Public Relations
— Graphic Communications

Bachelor of Science in Agriculture (B.S.A.)
Agricultural Business (emphasis on):
—Agricultural Communications
—Agricultural Economics
—Agricultural Finance
—Farm Management
—Agricultural Marketing and Mgmt
Agricultural Studies (emphasis on):
—Agricultural Education
—Agricultural Science
—Agricultural Technology

Bachelor of Science in Education (B.S.E.)
For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
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
Children’s Advocacy Studies 21 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
Finance 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
History and Philosophy of Science and Technology 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
Logistics 18 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
Religious Studies 18 hours
Renewable Energy Technology 18 hours
Sociology 18 hours
Spanish 18 hours
Statistics 20 hours
Theatre 21 hours
Women and Gender Studies 18 hours

ARMY ROTC PROGRAM
For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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
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 summer sessions. Courses are offered in all colleges and departments during these sessions, with special attention given to the needs of in-service teachers.

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

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

The bulletin can be accessed at http://registrar.astate.edu/bulletin.php
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 may view the tapes in lieu of attending the scheduled class sessions. CVN sites are located at ASU-Jonesboro, ASU-Bebee, ASU-Mt. Home, ASU-Paragould, ASU-Newport, Arkansas Northeastern College, East Arkansas Community College, and Mid-South Community College. ASU-Jonesboro has additional access to a multitude of CVN sites both within Arkansas and outside the state which may be available based on need and availability.

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 provides 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 these programs. 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 website or on the Registrar's bulletin site at http://registrar.astate.edu/bulletin.php.

The Graduate School can be contacted at Dean B. Ellis Library Building, room 143, or from the following address:

Graduate School
P.O. Box 69
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.

ADMISSION AS AN UNDERGRADUATE INTO THE ACCELERATED MASTERS PROGRAM

The Accelerated Master’s degree option provides a transition that enables outstanding Arkansas State University undergraduate students to begin taking graduate course work in their junior or senior year and thus combine components of the undergraduate and graduate curriculum. Students admitted into an approved Accelerated Masters Degree Program may have a limited number of graduate level courses counted toward both the undergraduate and graduate degree. Students must apply and be admitted to the accelerated master’s program by the department and the Graduate School before enrolling for any courses to apply to the graduate degree. Graduate programs at Arkansas State University offering an accelerated option are listed:

• Chemistry (MS)
• Agriculture (MSA) - All Concentrations
• Special Education - Instructional Specialist Grades P-4 (MSE)
• Special Education - Instructional Specialist Grades 4-12 (MSE)

Depending on the program, up to 12 hours of graduate credits will apply toward completion of the undergraduate degree requirements. Under the Accelerated Master’s degree option, a student will be fully admitted to the Graduate School upon completion of the baccalaureate degree. This dual counting of a course for both undergraduate and graduate credit will only occur after the student completes the baccalaureate degree. Undergraduate students interested in the Accelerated Master’s opportunity should contact their department or the Graduate School for admission information.

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:

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

Doctor of Physical Therapy

Specialist in Community College Teaching

Emphasis Areas:
Agricultural Education
Biology
Business Technology
Chemistry
Community College Administration
English
History

Specialist in Education
Educational Leadership

Master of Accountancy

Master of Arts
Art
Biological Sciences
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 Communication Disorders

Master of Engineering Management

Master of Music

Master of Music Education

Master of Public Administration

Master of Rehabilitation Counseling

Master of Science

Biology
Chemistry
College Student Personnel Services
Computer Science
Early Childhood Services
Environmental Sciences

Master of Science in Agriculture
Agricultural Education

Master of Science in Education
Curriculum and Instruction
Early Childhood Education
Educational Leadership
Educational Theory and Practice
Middle Level Education
Reading
School Counseling
Secondary Education Teaching Fields

Biology
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 online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

The General Education Program

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

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

General Education Goals for Students
1. Communicating effectively: Students should be able to communicate effectively and correctly, in writing and in speech, for a variety of purposes, using appropriate forms of discourse, organizational strategies, and vocabulary.
2. Thinking critically: Students should develop the skills necessary to digest, assimilate, and evaluate critically what they read, see, and hear. They should employ rational argument and deduction routinely in their own work.
3. Using mathematics: Students should be able to use, understand and apply basic mathematical skills in practical applications.
4. Using technology: Students should be able to use appropriate technologies to locate, process and evaluate information in an effective and ethical manner.
5. Understanding global issues: Students should be aware of the social, political, economic, and cultural dimensions of a diverse national and world community. They should have the intellectual and interpersonal skills needed to participate and succeed in a dynamic global society.
6. Developing a life-long appreciation of the arts and humanities: Students should develop an appreciation for the arts and humanities. They should be aware of the role of art and literature in human civilization and contemporary culture.
7. Developing a strong foundation in the social sciences: Students should be aware of the diverse systems developed by humans to manage and structure our relationships with one another. Students should prepare for the full range of public and private roles they are expected to fulfill as citizens, decision-makers and human beings in a democratic America and in a global society.
8. Using science to accomplish common goals: Students should understand how science is conducted and the criteria for scientific evidence so that they will be able to make informed decisions about the health and well-being of their communities and the natural environment. They should be aware of the ethical and political issues raised by science.
9. Providing foundations necessary to achieve health and wellness: Students should have a knowledge and appreciation of the scientific bases of physical and mental health and their contribution to overall wellness.
10. Understanding interdependence: Students should grasp how the many spheres of human knowledge are interrelated as they address problems and issues in their professional, civil, and personal lives. They should acknowledge the responsibilities of informed citizenship and the impact of their decisions and actions on others.

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.

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

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
Science.................................................................8
Life Sciences. Select one of the following:
BIOL 2013 AND 2011, Biology of the Cell and Laboratory
BIOL 2021 AND 2021, Microbiology for Nursing and Allied Health and Laboratory*
BIOL 1003 AND 1001, Biological Science and Laboratory
BIOL 1043 AND 1001, Biology of Sex and Laboratory
BIOL 1063 AND 1001, Plants and People and Laboratory
BIOL 1023 AND 1001, People and the Environment and Laboratory
*(If BIO 2103 is selected, the student must also take EITHER
BIOL 2201 AND 2201, Human Anatomy and Physiology I and Laboratory, OR
BIOL 2203 AND 2201, Human Anatomy and Physiology II and Laboratory

Physical Sciences. Select one of the following
CHEM 1011 AND 1011, General Chemistry I and Laboratory
CHEM 1013 AND 1001, Fundamental Concepts of Chemistry and Laboratory
CHEM 1023 AND 1001, Environmental Geology and Laboratory
PHSC 1203 AND 1001, Physical Science and Laboratory
PHYS 1103 AND 1001, Introduction to Space Science and Laboratory
PHYS 2034, University Physics I
PHYS 2034, General Physics I

Health and Wellness.............................................2–3
NRS 2203, Basic Human Nutrition
PE 1002, Concepts of Fitness

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 of Applied Science Degrees

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition I</td>
<td>6</td>
</tr>
<tr>
<td>ENG 1033, Composition I</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences and Mathematics</td>
<td>7</td>
</tr>
<tr>
<td>MATH 1023, College Algebra AND one of the following:</td>
<td></td>
</tr>
<tr>
<td>BIOL 1003 AND 1001, Biological Science and Laboratory</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CHEM 1013 AND 1001, General Chemistry I and Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 1013 AND 1001, General Chemistry I and Laboratory</td>
<td></td>
</tr>
<tr>
<td>GEOL 1003 AND 1001, Environmental Geology and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHSC 1203 AND 1001, Physical Science and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 1003 AND 1001, Introduction to Space Science and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 2034, General Physics I</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
</tr>
<tr>
<td>HIST 1003, World Civilization Since 1860</td>
<td></td>
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<tr>
<td>HIST 1023, World Civilization To 1860</td>
<td></td>
</tr>
<tr>
<td>HIST 2711, United States To 1876</td>
<td></td>
</tr>
<tr>
<td>HIST 2713, United States Since 1876</td>
<td></td>
</tr>
<tr>
<td>PSYC 2103, Introduction to United States Government</td>
<td></td>
</tr>
<tr>
<td>Computer Applications/Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
</tr>
<tr>
<td>CIT 1003, Microcomputer Applications</td>
<td></td>
</tr>
<tr>
<td>CS 1013, Introduction to Computers</td>
<td></td>
</tr>
<tr>
<td>TOTAL Requirements</td>
<td>19</td>
</tr>
</tbody>
</table>

General Education Curriculum for Associate of General Studies Degrees

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition I</td>
<td>6</td>
</tr>
<tr>
<td>ENG 1033, Composition I</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences and Mathematics</td>
<td>7</td>
</tr>
<tr>
<td>MATH 1023, College Algebra AND one of the following:</td>
<td></td>
</tr>
<tr>
<td>BIOL 1003 AND 1001, Biological Science and Laboratory</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CHEM 1013 AND 1001, General Chemistry I and Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 1013 AND 1001, General Chemistry I and Laboratory</td>
<td></td>
</tr>
<tr>
<td>GEOL 1003 AND 1001, Environmental Geology and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHSC 1203 AND 1001, Physical Science and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 1003 AND 1001, Introduction to Space Science and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 2034, General Physics I</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
</tr>
<tr>
<td>ANTH 2203, Introduction to Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>ECON 2503, Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 2504, Principles of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>GEOG 2503, Introduction to Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 1003, World Civilization To 1860</td>
<td></td>
</tr>
<tr>
<td>HIST 1023, World Civilization To 1860</td>
<td></td>
</tr>
<tr>
<td>HIST 2711, United States To 1876</td>
<td></td>
</tr>
<tr>
<td>HIST 2713, United States Since 1876</td>
<td></td>
</tr>
<tr>
<td>PSYC 2103, Introduction to United States Government</td>
<td></td>
</tr>
<tr>
<td>PSY 2103, Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 2503, Principles of Sociology</td>
<td></td>
</tr>
<tr>
<td>Computer Applications/Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
</tr>
<tr>
<td>CS 1013, Introduction to Computers</td>
<td></td>
</tr>
<tr>
<td>CIT 1003, Microcomputer Applications</td>
<td></td>
</tr>
<tr>
<td>TOTAL Requirements</td>
<td>25</td>
</tr>
</tbody>
</table>

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
# General Education Curriculum for Associate of Science Degrees

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition</strong></td>
<td>6</td>
</tr>
<tr>
<td>ENG 1013, Composition I</td>
<td></td>
</tr>
<tr>
<td>ENG 1013, Composition II</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Sciences and Mathematics</strong></td>
<td>11</td>
</tr>
<tr>
<td>Biological Sciences (one course and its laboratory)</td>
<td></td>
</tr>
<tr>
<td>BIOL 1003 AND 1001, Biological Science and Laboratory</td>
<td></td>
</tr>
<tr>
<td>(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.)</td>
<td></td>
</tr>
<tr>
<td>Physical Sciences (one of the following)</td>
<td></td>
</tr>
<tr>
<td>CHEM 1013 AND 1011, General Chemistry I and Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 1043 AND 1041, Fundamental Concepts of Chemistry and Laboratory</td>
<td></td>
</tr>
<tr>
<td>GEOL 1003 AND 1001, Environmental Geology and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 1014, Energy and the Environment</td>
<td></td>
</tr>
<tr>
<td>PHYS 1003 AND 1001, Physical Science I and Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 2033 AND 2031, General Physics I and Laboratory</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics (one course)</strong></td>
<td>6</td>
</tr>
<tr>
<td>MATH 1023, College Algebra or MATH 1013, College Mathematics</td>
<td></td>
</tr>
<tr>
<td>(or any higher level mathematics course for which this is a prerequisite)</td>
<td></td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td>6</td>
</tr>
<tr>
<td>Two of the following</td>
<td></td>
</tr>
<tr>
<td>ENG 2003, Introduction to World Literature I</td>
<td></td>
</tr>
<tr>
<td>ENG 2013, Introduction to World Literature II</td>
<td></td>
</tr>
<tr>
<td>PHL 1103, Introduction to Philosophy</td>
<td></td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td>12</td>
</tr>
<tr>
<td>One of the following</td>
<td></td>
</tr>
<tr>
<td>HIST 1013, World Civilization To 1660</td>
<td></td>
</tr>
<tr>
<td>HIST 1023, World Civilization Since 1660</td>
<td></td>
</tr>
<tr>
<td>One of the following</td>
<td></td>
</tr>
<tr>
<td>HIST 2763, The United States To 1876</td>
<td></td>
</tr>
<tr>
<td>HIST 2773, The United States Since 1876</td>
<td></td>
</tr>
<tr>
<td>PSOC 2103, Introduction to American Government</td>
<td></td>
</tr>
<tr>
<td>Two of the following from different areas:</td>
<td></td>
</tr>
<tr>
<td>ECON 2313, Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 2333, Economic Issues and Concepts</td>
<td></td>
</tr>
<tr>
<td>GEDG 1013, Introduction to Geography</td>
<td></td>
</tr>
<tr>
<td>GEDG 2013, Introduction to Geography</td>
<td></td>
</tr>
<tr>
<td>PSYC 2023, Principles of Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 2213, Principles of Sociology</td>
<td></td>
</tr>
<tr>
<td>SOCANTH 2033, Introduction to Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL Requirements</strong></td>
<td>35</td>
</tr>
</tbody>
</table>
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 AND TECHNOLOGY
  Technology Program

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 Educational Leadership, Curriculum, and Special Education
  Department of Health, Physical Education, and Sport Sciences
  Department of Psychology and Counseling
  Department of Teacher Education
  Professional Education Programs

COLLEGE OF ENGINEERING
  Civil Engineering Program
  Electrical Engineering Program
  Mechanical Engineering Program

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 Political Science
  Department of World Languages and Cultures

COLLEGE OF NURSING AND HEALTH PROFESSIONS
  School of Nursing
  Department of Clinical Laboratory Sciences
  Department of Communication Disorders
  Department of Medical Imaging and Radiation Sciences
  Department of Physical Therapy
  Department of Social Work

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

INDEPENDENT DEPARTMENTS / AREAS
  The International Center for English
  Library and Information Resources
  Department of Military Science
  Center for Regional Programs

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
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
GRADUATE “IN HONORS”

To graduate “In Honors,” students must take at least eighteen (18) hours of Honors coursework. Nine or more of these hours must be upper division (junior/senior level) work. Students must also have at least a 3.50 cumulative GPA. Transfer students may graduate in Honors by either meeting these requirements in full or, if entering with 36 or more hours completed, by taking fifteen (15) hours of upper division Honors work; they must also have at least a 3.50 GPA.

Diplomas and official transcripts of those fulfilling these requirements will bear the designation “Honors Program.” All Honors courses are indicated as such on the student’s transcript.

Students earning the distinction “In Honors” receive a certificate and silver medallion to wear at Commencement and at other university functions.

HONORS CERTIFICATE

Students who do not graduate “In Honors” or “In University Honors” may earn an Honors Certificate. To earn an Honors Certificate students must complete a minimum of eighteen (18) credit hours of Honors coursework and maintain at least a 3.00 cumulative GPA.

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

University College

Dr. Lynita Cooksey, Dean; Jill Simons, Executive Director of Retention Initiatives

FIRST YEAR STUDIES

Director: Paula Bradberry; Instructors: Gloria Bridges, 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.

WILSON CENTER FOR ACADEMIC ADVISING AND LEARNING ASSISTANCE

Director: Melissa Jackson

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 (TRIO)

Student Support Services Director: Jerrod Lockhart
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.

LEARNING SUPPORT SERVICES

Coordinator, Andrea Foerster

University College’s Learning Support Services provides academic assistance programming for ASU students enrolled on the Jonesboro Campus. The Learning Support Center (LSC) offers one-on-one, small group and on-line tutoring in almost all 1000 and 2000 level general education courses, as well as some upper-division core courses. Peer tutors are available by appointment and drop-in.

Structured Learning Assistance (SLA) is an academic support program that targets ASU’s most challenging courses and offers a safety net for all students enrolled in SLA sections. Other services are available both in the center and on-line. Tutoring and SLA activities are provided free of charge to students.

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
ASSOCIATE OF GENERAL STUDIES DEGREE PROGRAM

University College offers the Associate of General Studies degree and the Bachelor of Science in Interdisciplinary Studies degree, and a Minor in Leadership Studies. Enroll As-

Arkansas State University offers the Associate of General Studies degree through Uni-

Students seeking entrance into the Associate of General Studies program must satisfy

Students pursuing the Associate of General Studies degree are responsible for complying

An Associate of General Studies degree may be conferred upon students who satisfac-

A 2.0 cumulative grade point average is required on all course work. A student must earn

BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES DEGREE PROGRAM

Arkansas State University offers the Bachelor of Interdisciplinary Studies degree program

The Bachelor of Science in Interdisciplinary Studies (BSIS) program is an acknowledg-

Admission standards for students seeking to enroll in the Bachelor of Science in Inter-

Students pursuing this degree are responsible for having on record a complete, planned

Students pursuing this degree are responsible for having on record a complete, planned

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
University Requirements:

First Year Making Connections Course

Sem. Hrs.

3

General Education Requirements:

Sem. Hrs.

43-44

Major Courses:

Sem. Hrs.

54-63

Electives:

Sem. Hrs.

14-24

TOTAL 124

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.

3

1

3

5

3

5

3

3

3

3

3

3

3

5

5

5

5

TOTAL 22

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

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.

Enroute Associate of Arts and Associate of Science Degrees

Students who satisfactorily complete approximately 50% of the requirements for selected baccalaureate degrees may earn an Associate of Arts or Associate of Science degree en route to the four year degree. For part-time students, or students who need to stop out due to personal or extenuating circumstances, the en route associate degree can be a valuable intermediate goal, bridging the period between matriculation and the completion of a four-year baccalaureate degree.

A minimum of 60 hours, including the required ASU general education curriculum are required. The degree may not be declared by students upon entry to ASU. Students will be notified of their eligibility for the degree upon satisfactory completion of the minimum requirements or students who feel they have met requirements for the degree may notify the Registrar's Office for a degree audit.

En Route Associate of Arts

General Education Core (43-44 hrs.):

Sem. Hrs.

English

6

Math

3

Science

8

Arts and Humanities

9

Health and Wellness

2-3

Global Issues

3

Requirements:

Sem. Hrs.

3

3

3

3

3

3

3

3

3

3

3

3

3

5

5

5

5

TOTAL 124

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
### Social Sciences
- Select 3 hours from the following US History/Government courses
  - HIST 2703, The United States To 1876
  - HIST 2723, The United States Since 1876
  - PSC 2103, Introduction to American Government

### Arts Core:
- First Year Experience (Making Connections or other approved FYE course) .................................................................................. 3

### University Core
- Arts Core:
  - Any combination of courses NOT TAKEN as General Education or University Core courses ............................................. 12

### Electives
- At least 1-2 hours of Electives
- TOTAL 60 hours

---

### Critical Thinking
- JOUR/RTV 1003, Mass Communication in Modern Society
- SCOM 1203, Oral Communication

---

### Arts Core:
- At least 3 hours must be selected from the following:
  - THEA 2503, Fine Arts-Theatre
  - MUS 2503, Fine Arts-Musical
  - ART 2503, Fine Arts-Visual

---

### General Education Core (43-44 hrs):

**Sem. Hrs.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sems. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>8</td>
</tr>
<tr>
<td>Health and Wellness</td>
<td>2-3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>9</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>9</td>
</tr>
</tbody>
</table>

---

### Social Sciences
- Select 3 hours from the following US History/Government courses
  - HIST 2703, The United States To 1876
  - HIST 2723, The United States Since 1876
  - PSC 2103, Introduction to American Government

### Arts Core:
- At least 3 hours must be selected from the following:
  - THEA 2503, Fine Arts-Theatre
  - MUS 2503, Fine Arts-Musical
  - ART 2503, Fine Arts-Visual

---

### En Route Associate of Science

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

BACHELOR OF APPLIED SCIENCE

Students interested in pursuing a Bachelor of Applied Science degree must schedule a personal interview with a BAS adviser. During this interview, the adviser will outline the requirements for the BAS program. The adviser and the student will analyze the appropriateness of the degree given the student's goals and career objectives, the degree's requirements and the student's academic progress to date.

The BAS program requires completion of the following program prerequisites:

1. Associate of Applied Science (AAS) or other recognized technical-professional associate degree from an accredited institution.
2. Minimum GPA of 2.00 on all transfer work.
3. Completion of the AUS admission application process with acceptance.
4. Completion of the State Minimum General Education Core.
5. Completion of a total of 124 hours of which 45 hours are upper division (3000-4000)
6. Minimum GPA of 2.00 on all coursework at ASU and a 2.00 average on all coursework presented for graduation.

General Education Core (35 hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1013, Composition I (C or Better)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1023, College Algebra or higher level math course for which College Algebra is a prerequisite</td>
<td>3</td>
</tr>
</tbody>
</table>

Science (18 hours)

Select one concentration from the following:

- BUI 1213 AND 1211, Biology of the Cell and Laboratory
- BUI 1203 AND 1201, Microbiology for Nursing and Laboratory
- BUI 2033 AND 2031, Human Anatomy and Physiology and Laboratory
- CHEM 1013 AND 1011, General Chemistry I and Laboratory
- BUI 1013 AND 1011, Biology of Seed and Laboratory
- BUI 1033 AND 1031, Plants and People and Laboratory
- BUI 1003 AND 1001, People and the Environment and Laboratory

Select one concentration from the following:

- CHEM 1013 AND 1011, General Chemistry I and Laboratory
- GEOL 1003 AND 1001, Environmental Geology and Laboratory
- PHYS 1013 AND 1211, Physical Science and Laboratory
- PHYS 1013 AND 1011, Intro to Science and Laboratory
- PHYS 1013 AND 1001, Intro to Physical Science
- PHYS 1013 AND 1001, Intro to Physical Science
- PHYS 2013, General Physics I
- PHYS 2023, Intermediate Physics
- PHYS 2203, General Physics I

Arts and Humanities (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2003, Fine Arts-I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2103, Fine Arts-II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 1013, Introduction to Music</td>
<td>3</td>
</tr>
<tr>
<td>THEA 2203, Fine Arts-Theater</td>
<td>3</td>
</tr>
<tr>
<td>HUM 2203, Introduction to the Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

Global Issues (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2253, Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2453, Introduction to Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1153, World Civilization To 1860</td>
<td>6</td>
</tr>
<tr>
<td>HIST 1153, World Civilization Since 1860</td>
<td>6</td>
</tr>
</tbody>
</table>

Social Sciences (9 hours)

Select one concentration from the following:

- HIST 2763, The United States To 1876
- HIST 2773, The United States Since 1876
- ECON 2203, Introduction to Economics
- ECON 2213, Economic Issues and Concepts
- POSC 1003, Introduction to Politics

For up-to-date Bulletin information, visit http://Registrar.astate.edu/bulletin.php
College of Agriculture and Technology

Professor Gregory C. Phillips, Dean
Professors Agnew, Armah, Cramer, Greenwalt, Hood, W. Humphrey, Kennedy, Teague; Associate Professors Alm, Chaudhury, Green, Morris, Pittcock, Savary, Shumway; Assistant Professors K. Humphrey, Moore, Wells; Instructors Fenner

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; and for entry and advancement in the Manufacturing and Industrial Technology industries;
To conduct problem-solving research related to crop and livestock production, natural resource management, and value-added processing in collaboration with private and other public sector entities;
To provide educational opportunities and experiences for transfer of knowledge in classrooms and adult continuing education;
All within environmentally sound and sustainable systems.

COLLEGE OF AGRICULTURE CORE COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1213</td>
<td>Making Connections in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AGED 445V</td>
<td>Practicum in Agricultural Communications</td>
<td></td>
</tr>
<tr>
<td>AGED 3453</td>
<td>Agricultural Structural Systems</td>
<td></td>
</tr>
<tr>
<td>PSSC 3503</td>
<td>Agriculture Spatial Technologies</td>
<td></td>
</tr>
<tr>
<td>BIOL 3013</td>
<td>Genetics</td>
<td></td>
</tr>
<tr>
<td>TECH 3863</td>
<td>Industrial Safety</td>
<td></td>
</tr>
<tr>
<td>TECH 2453</td>
<td>Solid Works I</td>
<td></td>
</tr>
</tbody>
</table>

*Must be completed by end of sophomore year

AGRI 3233, Applied Agricultural Statistics...

At least 3 credits from the following list:

- TEDY 2463, Solid Works I
- TECH 2883, Introduction to Quality Control
- TECH 3602, Industrial Safety
- FSTT 2003, Introduction to Food Science
- AGR 2133, General Improvement of Plants and Animals
- BIOS 2013, Genetics
- PSSC 2005, Agriculture Spatial Technologies
- PSSC 3503, Agriculture Structural Systems
- AGED 445V, Practice in Agricultural Communications
- AGED 4413, International Agriculture Study Tour

Major in Agricultural Business

Bachelor of Science in Agriculture
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:
- Must be completed by end of sophomore year
- At least one HEST course in the General Education Core Courses
- At least one MATH course for BSBA
- At least 2 English courses
- At least 2 upper-level English courses
- At least 3 credits from the following list:
  - TEDY 2463, Solid Works I
  - TECH 2883, Introduction to Quality Control
  - TECH 3602, Industrial Safety
  - FSTT 2003, Introduction to Food Science
  - AGR 2133, General Improvement of Plants and Animals
  - BIOS 2013, Genetics
  - PSSC 2005, Agriculture Spatial Technologies
  - PSSC 3503, Agriculture Structural Systems
  - AGED 445V, Practice in Agricultural Communications
  - AGED 4413, International Agriculture Study Tour

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Making Connections Course</td>
<td>3</td>
</tr>
</tbody>
</table>

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
Major in Agricultural Studies
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) .......................... 2
HIST 2783, HIST 2733 OR POSC 2703 .......................... 2
At least one HIST course in the General Education Core Courses ................. 2
* in ENG 1013 and ENG 1013* ...................................................... 2
12 GE Electives .......................... 3
This includes English Composition .................. 3
45 Upper Level AFTER 32 HOURS * .................................................... 3
126 Earned Credit Hours .............................................................. 3
18 of the Last 24 Hours at ASU * ............................................... 3
32 Residency Hours * ................................................................. 3
57 Hours with Accredited Senior Institutions * ................................... 3
2.00 GPA in ASU Coursework and Major coursework * ......................... 3
*ASU Minimum

First Year Making Connections Course
Sem. Hrs. .......................... 2
AGRI 1213, Making Connections in Agriculture .......................... 3

Specific General Education Requirements:
Sem. Hrs. .......................... 43-44
Refer to index for General Education Curriculum for Baccalaureate Degrees .......................................................... 43-44

Students with this major must take the following:
Biol 1003, Biological Science AND Biol 1011, Biological Science Lab .......................... 3
Somm 1203, Oral Communication .......................... 3

Agriculture Core Courses:
Sem. Hrs. .......................... 21
(See Beginning of Agriculture Section)

Agricultural Education Emphasis Requirements:
Sem. Hrs. .......................... 31
AGED 1403, Introduction to Agricultural Science Laboratory .......................... 3
Chem 1043, Fundamentals of Chemistry I .......................... 3
Chem 1043, Fundamentals of Chemistry II .......................... 3
PSSC 1043 or AREC upper level .......................... 3
Six hours of the following must be upper level .......................... 3
AGEC elective .......................... 3
AGRI elective .......................... 3
AGED elective .......................... 3
AGED 1403, Introduction to Agricultural Science Laboratory .......................... 3
Three of the following courses .......................... 9
AGED 2433, Principles of Agricultural Power: Electricity and Internal Combustion Engines .......................... 3
AGED 2435, Application of Welding Technologies in Agriculture .......................... 3
AGED 2435, Agricultural Equipment Hydraulic Systems .......................... 3
AGED 3435, Agricultural Structural Systems .......................... 3

Required Professional Education Courses:
Sem. Hrs. .......................... 28
Biology major requirement is 230 SGRS for all other programs. See
Bachelor of Science in Education degree .......................................................... 3
College of Education
AGED 1403, Basic Agricultural Mechanics .......................................................... 3
AGED 1411, Introduction to Agricultural and Extension Education .......................... 3
AGED 4433, Methods of Teaching Agricultural Mechanics .......................... 3
AGED 4492, Agricultural Youth Organizations ...................................................... 4
AGED 4493, Agricultural Youth Organizations ...................................................... 4
EDAG 4623, Special Education Internship in Physical Education .......................... 3
EDAG 5453, Foundations of Adult Education in Vocational Education .......................... 3
PSY 3703, Educational Psychology .......................... 3
This course may be used as a Social Science General Education course. If all four courses are required for the degree
120-127
ESAG 4453, Special methods for Teaching Agricultural Education** .......................... 3
TASL 4430, Teaching Internship in the Secondary School** .......................... 12
**Prerequisite: Admission to the Teacher Education Program
Practicum I: Required for admission into Teacher Education Program .......................... 3
Practicum II: Required for graduation for the Teacher Education Program .......................... 3

Agricultural Science Emphasis Requirements:
Sem. Hrs. .......................... 56-57
Chem 1003, Fundamentals of Chemistry I ...................................................... 2
Electives from AGEC, AGED, AREC, POSC, PSSC, or TECH and EDAG .......................... 36-37
56-57
Minor must be approved by advisor and should not include
courses taken to fulfill general education requirements .......................... 18

Agricultural Technology Emphasis Requirements:
Sem. Hrs. .......................... 56-57
AGED 1403, Basic Agricultural Mechanics ...................................................... 3
AGED 1411, Introduction to Agricultural and Extension Education .......................... 3
AGED 4433, Methods of Teaching Agricultural Mechanics .......................... 3
AGED 4492, Agricultural Youth Organizations ...................................................... 4
AGED 4493, Agricultural Youth Organizations ...................................................... 4
EDAG 4623, Special Education Internship in Physical Education .......................... 3
EDAG 5453, Foundations of Adult Education in Vocational Education .......................... 3
PSY 3703, Educational Psychology .......................... 3
This course may be used as a Social Science General Education course. If all four courses are required for the degree
120-127
ESAG 4453, Special methods for Teaching Agricultural Education** .......................... 3
TASL 4430, Teaching Internship in the Secondary School** .......................... 12
**Prerequisite: Admission to the Teacher Education Program
Practicum I: Required for admission into Teacher Education Program .......................... 3
Practicum II: Required for graduation for the Teacher Education Program .......................... 3

TOTAL 129-130

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) .......................... 2
HIST 2783, HIST 2733 OR POSC 2703 .......................... 2
At least one HIST course in the General Education Core Courses ................. 2
* in ENG 1013 and ENG 1013* ...................................................... 2
12 GE Electives .......................... 3
This includes English Composition .................. 3
45 Upper Level AFTER 32 HOURS * .................................................... 3
126 Earned Credit Hours .............................................................. 3
18 of the Last 24 Hours at ASU * ............................................... 3
32 Residency Hours * ................................................................. 3
57 Hours with Accredited Senior Institutions * ................................... 3
2.00 GPA in ASU Coursework and Major coursework * ......................... 3
*ASU Minimum

First Year Making Connections Course
Sem. Hrs. .......................... 2
AGRI 1213, Making Connections in Agriculture .......................... 3

General Education Requirements:
Sem. Hrs. .......................... 43-44
Refer to index for General Education Curriculum for Baccalaureate Degrees .......................................................... 43-44

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

TOTAL 124

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
College of Agriculture Core Courses:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 3633, Veterinary Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 1303 and 1301, Biology of Animals and Lab</td>
<td></td>
</tr>
</tbody>
</table>

Must select from one of the following:

**Life Sciences:**

- ANSC 4683, Theriogenology: 3
- ANSC 3703, Poultry Flock Management: 3
- ANSC 2633, Animal Science and Society: 3
- AGRI 2213, Genetics: Improvement of Plants and Animals OR BIO 3013, Genetics: 3

**Physical Sciences:**

- CHEM 3101, Microbiology: 3
- CHEM 1052, Fundamental Concepts of Chemistry II: 3
- PHYS 2054, General Physics I: 4
- PHYS 2064, General Physics II: 4
- MATH 1033, Plane Trigonometry: 3
- MATH 1054, Precalculus: 3-4

Choose three of the following: 9

- FDST 2213, Food Chemistry: 3
- FDST 2223, Principles of Food Processing: 3
- FDST 4213, Food and Health: 3
- ANSC 3853, Meat Science and Processing: 3

**Animal Science:**

- ANSC 4623, Beef Production: 3
- ANSC 4643, Techniques of Farm Animal Production: 3
- ANSC 3203, Small Animal Care and Management: 3
- ANSC 3653, Meat Science and Processing: 3
- ANSC 4683, Theriogenology: 3

**Equine Management:**

- AGEC 4073, Agricultural Business Management: 3
- CHEM 1103, General Chemistry I: 5
- CHEM 1101, General Chemistry I: 7
- CHEM 3103, Organic Chemistry I: 5
- CHEM 3101, Organic Chemistry I: 4
- CHEM 4211, Biochemistry: 3
- CHEM 4213, Biochemistry: 3
- PHYS 2054, General Physics I: 4
- PHYS 2064, General Physics II: 4

**Pre-veterinary:**

- ANSC 4623, Beef Production: 3
- ANSC 4643, Techniques of Farm Animal Production: 3
- ANSC 3653, Meat Science and Processing: 3
- ANSC 3853, Meat Science and Processing: 3
- ANSC 4213, Introduction to Food Science: 3
- ANSC 4223, Principles of Food Processing: 3

**Food Science and Technology:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 2213, Computerized Agricultural Records</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3013, Computerized Agricultural Records</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 3413, Agricultural Business Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose three of the following: 9

**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.  
AGRI 1543, Fundamentals of GIS OR PSSC 1503, Agricultural Spatial Technologies .......... 3  
CHEM 1052, Fundamentals Concepts of Chemistry I ...................................................... 2  
PSSC 3223, Weed and Weed Control .................................................................................. 3  
PSSC 4813, Soil Fertility ..................................................................................................... 3  
PSSC or HORT Electives or related area .............................................................................. 15  

TOTAL 26

Science/Research:  
Sem. Hrs.  
CHEM 1302 AND 1301, General Chemistry I and Laboratory ............................................... 4  
CHEM 3102 AND 3101, Organic I and Laboratory ................................................................. 4  
MATH 2181, Calculus I ......................................................................................................... 3  
MATH 2194, Calculus II ....................................................................................................... 3  
AGRI 4233, Experimental Agriculture 354405a ................................................................. 3-4  
PSSC or HORT Electives or related area .............................................................................. 8-7  

TOTAL 24-26

Environmetal Horticulture:  
Sem. Hrs.  
CHEM 1302, Fundamentals Concepts of Chemistry I ....................................................... 2  
HORT 2223, Plant Materials ................................................................................................ 3  
HORT 2233, Fundamentals of Horticulture ....................................................................... 3  
HORT 3223, Greenhouse Management ............................................................................. 3  
HORT Electives or related area ......................................................................................... 15  

TOTAL 26

Electives:  
Sem. Hrs.  
8-11  

TOTAL 124

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 Prefx) ........................................... 6  
AGRI 3543, Fundamentals of GIS  ................................................................................... 3  
AGRI 4233, Experimental Agriculture 354405a ................................................................. 3-4  

NOTE: All Agricultural Mechanics courses have an AGED Prefix. Three hours of AGED, 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 ..................................................................................................... 12  
Plant Science, Upper-level courses .................................................................................... 12  

TOTAL 24

Minor in Horticulture  
Sem. Hrs.  
Horticulture Electives ....................................................................................................... 12  

TOTAL 18

Minor in Food Science and Technology  
Sem. Hrs.  
FDST 2203, Introduction to Food Science ......................................................................... 3  
FDST 3203, Food Chemistry ............................................................................................... 3  
FDST 3213, Food Chemistry ............................................................................................... 3  
FDST 4023, Food and Health .............................................................................................. 3  

TOTAL 18

Minor in Renewable Energy Technology  
Sem. Hrs.  
RET 3113, Fundamentals and Applications of Renewable Energy ................................... 3  
RET 4013, Process Technology for Agricultural Products .................................................. 3  
RET 4023, Advanced Bioenergy ......................................................................................... 3  
RET 4113, Advanced Renewable Energy Systems ............................................................ 3  
RET 4123, Energy Conservation and Efficiency .................................................................. 3  
RET 4213, Wind Energy Technology ................................................................................. 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 of Applied Science  

Sem. Hrs.  
General Education Requirements:  
Refer to index for General Education Curriculum for Associate Degrees.  

TOTAL 19

Major Requirements:  
Sem. Hrs.  
FDST 2203, Introduction to Food Science ......................................................................... 3  

TOTAL 3

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
### Technology Program

The Bachelor of Science degree with a major in Technology offers six emphasis areas: Technical Studies, Technology Management, Metallurgical Technology, Computer-Aided Drafting and Design, 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. Graduates with this emphasis will serve as liaison between manufacturing or industrial production and the administrators of the company. Consequently, a sound understanding of the basic principles of business, personnel management, and management techniques will be mandatory.

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.

**Technology Program**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDST 2213</td>
<td>Food Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2221</td>
<td>Principles of Food Processing</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2231</td>
<td>Food Safety and Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>FDST 2303</td>
<td>Food Quality Assurance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Support:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 3233</td>
<td>Agriculture Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 2103</td>
<td>Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3123</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>NRS 2203</td>
<td>Basic Human Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

9-11

**TOTAL** 89

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) 45 Hours
- Upper Level AFTER 32 HOURS * 124 Earned Credit Hours
- 15 of the Last 24 Hours at ASU * 30 Residence Hours
- 57 Hours with Accredited Senior Institutions *
- 2/3 in ASU Corework and Major coursework
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.
- ASU Unofficial

First Year Making Connections Course
- AGRI 1213, Making Connections in Agriculture, or other equivalent course 3 Hours

General Education Requirements:
- Refer to index for General Education Curriculum for Baccalaureate Degrees 42-44 Hours

Specific General Education Recommendations:
The following General Education Courses are recommended for this major:
- ECON 2113, Principles of Microeconomics 3 Hours
- MATH 1023, College Algebra 3 Hours
- PHYS 2054, General Physics I 4 Hours
- SOC 2133, Oral Communication 3 Hours

Core Requirements for Degree:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 1023</td>
<td>Router Technologies - Cisco I</td>
<td>3</td>
</tr>
<tr>
<td>MET 1013</td>
<td>Networking Essentials - Cisco I</td>
<td>3</td>
</tr>
<tr>
<td>MET 2003</td>
<td>Advanced Routing and Switching - Cisco III</td>
<td>3</td>
</tr>
<tr>
<td>MET 2013</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MET 2023</td>
<td>Principles of Technology</td>
<td>3</td>
</tr>
<tr>
<td>MET 3753</td>
<td>Industrial Safety</td>
<td>3</td>
</tr>
<tr>
<td>MET 4023</td>
<td>Quality Assurance</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 27 Hours

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

Computer Aided Drafting and Design:
- Select Seven of the following: 21 Hours
- TECH 1433, Beginning Solid Modeling - Key Creator II
- TECH 1453, Technology Design - Solid Works I
- TECH 1455, Computer Aided Drafting and Design II
- TECH 1457, AutoCAD / Inventor
- TECH 1459, Intermediate Solid Modeling Key Creator II
- TECH 1463, Redline Drafting
- TECH 1465, Advanced Technology Design - Solid Works II
- TECH 1473, Drafting
- TECH 1483, Computer Aided Manufacturing (CAM)
- TECH 1485, Tool Design
- TECH 1493, CAD 2D
- TECH 1503, Rhino 3D
- TECH 1513, SolidWorks 3D
- TECH 1523, Labor Relations
- TECH 1533, Work Center Management

TOTAL 21 Hours

*Computer Systems:
- Select Three of the following: 9 Hours
- TECH 1013, Networking Essentials - Cisco I
- TECH 1023, Router Technologies - Cisco II
- TECH 1033, Technical Writing
- TECH 1043, Industrial Safety
- TECH 1053, SolidWorks 3D
- TECH 1063, Quality Assurance
- TECH 1073, An Introduction to Manufacturing
- TECH 1083, Lab Relations
- TECH 1093, Work Center Management

TOTAL 9 Hours

Manufacturing - Industrial:
- Select Three of the following: 9 Hours
- TECH 1023, Networking Essentials - Cisco II
- TECH 1033, Technical Writing
- TECH 1043, Industrial Safety
- TECH 1063, Quality Assurance
- TECH 1073, An Introduction to Manufacturing
- TECH 1093, Work Center Management

TOTAL 9 Hours

Metallurgical Technology:
- Select Three of the following: 9 Hours
- MET 1003, Metallography
- MET 2003, Nonferrous Metallurgy
- MET 3713, Fiscal Aspects
- MET 3753, Legal Aspects
- MET 3843, Foundry Technology

TOTAL 9 Hours

Technology Management:
- Select Three of the following: 9 Hours
- TECH 1023, Networking Essentials - Cisco II
- TECH 1033, Technical Writing
- TECH 1043, Industrial Safety
- TECH 1063, Quality Assurance
- TECH 1073, An Introduction to Manufacturing
- TECH 1093, Work Center Management

TOTAL 9 Hours

Technical Studies:
- Select Three of the following: 9 Hours
- TECH 1023, Networking Essentials - Cisco II
- TECH 1033, Technical Writing
- TECH 1043, Industrial Safety
- TECH 1063, Quality Assurance
- TECH 1073, An Introduction to Manufacturing
- TECH 1093, Work Center Management

TOTAL 9 Hours

Electives:
- Select Seven of the following: 17-18 Hours
- TECH 1433, Beginning Solid Modeling - Key Creator II
- TECH 1453, Technology Design - Solid Works I
- TECH 1455, Computer Aided Drafting and Design II
- TECH 1457, AutoCAD / Inventor
- TECH 1459, Intermediate Solid Modeling Key Creator II
- TECH 1463, Redline Drafting
- TECH 1465, Advanced Technology Design - Solid Works II
- TECH 1473, Drafting
- TECH 1483, Computer Aided Manufacturing (CAM)
- TECH 1485, Tool Design
- TECH 1493, CAD 2D
- TECH 1503, Rhino 3D
- TECH 1513, SolidWorks 3D
- TECH 1523, Labor Relations
- TECH 1533, Work Center Management

TOTAL 33 Hours

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
ASSOCIATE OF SCIENCE DEGREE

The Associate of 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 programs 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 of Science-Technology is accredited by The Higher Learning Commission.

Major in Technology

Associate of Science

General Education Requirements: Refer to index for General Education Curriculum for Associate of Science Degree

Specific General Education Recommendations: The following General Education Courses are recommended for this major:

ECO/2313, Principles of Macroeconomics
MATH 1003 College Algebra
SOCI 1203, Social Problems

Requirements for Degree:

Electives:

Bachelor of Applied Science

Technology Emphasis Areas

General Education Core (35 hours):

- English:
  - ENG 1023, Composition I (C or Better)
  - ENG 1013, Composition II (C or Better)
- Math:
  - MATH 1023, College Algebra or higher level math course for which College Algebra is a prerequisite
- Science:
  - Select one combination from the following:
    - BIOL 2023 AND 2021, Biology of the Cell and Laboratory
    - BIOL 2013 AND 2011, Microbiology for Nursing and Laboratory
    - CHEM 2033 AND 2031, Human Anatomy and Physiology and Laboratory
    - BDBI 1103 AND 1101, Biological Science and Laboratory
    - NEUR 2033 AND 2031, Introduction to Human Anatomy and Laboratory
    - PSY 1103 AND 1101, Principles of Psychology and Laboratory
    - PSY 1023 AND 1021, Principles of Psychology and Laboratory
    - PSY 2023 AND 2021, Principles of Psychology and Laboratory
    Select one combination from the following:
    - CHEM 1113 AND 1111, General Chemistry I and Laboratory
    - GEOL 1003 AND 1001, Environmental Geology and Laboratory
    - PSYH 1203 AND 1201, Physical Science and Laboratory
    - PHYS 1103 AND 1101, Intro to Space Science and Laboratory
    - PHYS 2023, University Physics I (C or Better)
    - PHYS 2024, University Physics II (C or Better)
    - PHYS 2033, University Physics III (C or Better)
- Fine Arts (select one from the following):
  - ART 2013, Fine Art-Visual
  - MUS 2023, Fine Arts Musical
  - THEA 2003, Fine Arts-Theatre

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
**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, 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 Supply Chain Management Program, Small Business & Technology 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.

Three 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. 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.

**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 page referenced 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 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 updated 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 in 2.25 overall core GPA required) Som. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2013, Introduction to Financial/Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2013, Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2013, Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2023, American History of Business</td>
<td>3</td>
</tr>
<tr>
<td>HGFT 2023, Financial and Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CIT 1503, Microcomputer Applications or Pro</td>
<td>0 - 3</td>
</tr>
<tr>
<td>CIT 2013, Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3023, Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2113, Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2115, Business Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>LAW 1222, Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MGFT 4153, Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGFT 4153, Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3013, Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPOC 1203, Oral Communication</td>
<td>0 - 3</td>
</tr>
</tbody>
</table>

1. Credit required only if not taken to satisfy a part of the General Education Requirements.
2. Must be completed before enrolling in junior/senior level classes.

For up-to-date Bulletins information, visit [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)
### Minor in Electronic Commerce

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFT 3203, Web Site Design and Development OR JOUR 4373, Internet Communications</td>
<td>3</td>
</tr>
<tr>
<td>CFT 3403, Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CFT 4403, Global E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3113, Marketing OR MKTG 2103, Supply Chain Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFT 2333, Visual Basic Programming</td>
<td>6</td>
</tr>
<tr>
<td>CIT 3121, Internship (in area in E-Commerce) or MKTG 4283, Internship JOUR 3113, Digital Design</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** 18

### Associate Degree

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

### COURSE SEQUENCE FOR FRESHMEN AND SOPHOMORES

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

### ENROLLMENT IN UPPER-LEVEL COURSES IN BUSINESS

The College of Business offers upper-level courses (junior/senior level) in a variety of professional fields of business. To be eligible to enroll in any upper-level courses, any business major must first have the proper prerequisites and satisfy the following enrollment requirements:

1. complete 54 semester hours of General Education requirements and all lower-level College of Business courses except for BICM 2563 and LAW 2023;
2. complete MATH 2143;
3. complete a degree plan which is done in consultation with the student's adviser.

Students majoring in fields outside the College of Business may enroll in upper-level courses in business, provided they have the proper prerequisites, and have completed 54 semester hours of credit prior to enrollment. Students not majoring in business are limited to a maximum of 30 semester hours of College of Business courses.

### Department of Accounting

**Associate Professor, John Robertson, Chair; Professors Dancer, Moore, Quinn; Assistant Professors Pae, Peterson; Instructors Carr, Jode, 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 audit, 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.


**Major in Accounting**

**Bachelor of Science**


### University Requirements:

- First Year Making Connections Course (or equivalent)
  - HIST 2773, HIST 2773 OR POSC 2103
  - At least one HIST course in the General Education Core Courses
  - Academic Literacy Skills I (ENG 1003) and ENG 1013
  - 45 Upper Level After 35 Hours *
  - 124 Earned Credit Hours *
  - 124 Total Hours

### General Education Requirements:

- First Year Experience Business

### Specific General Education Requirements:

- Students MUST complete MATH 2143 with a "C" or better.
- Students MUST complete other SOC 2213 OR ANTH 2233

### College of Business Core Courses:

### Major Requirements:

- grade of "C" or better in each course or 2.25 overall major GPA
- ACCT 2035, Principles of Accounting (only one of 2035 or 2033)
- ACCT 3003, Intermediate Accounting I (6 hours)
- ACCT 3005, Managerial Accounting
- ACCT 4103, Auditing
- ACCT 4245, Federal Income Taxation
- ACCT 4251, Cost Accounting
- ACCT 4465, Accounting Information Systems
- ACCT 4470, Accounting Information Systems
- ACCT 4475, Principles of Business Law
- ACCT 4590, Accounting Electives

- ACCT 4243, Internship in Accounting
- ACCT 4900, Internship in Accounting

### Electives:

- 37 Total

## Minor in Accounting

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2033, Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2133, Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3003, Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3013, Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2333, Economics Issues and Concepts, or ECON 2323, Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Junior-Senior Accounting Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

**TOTAL** 21

---

**Department of Computer and Information Technology**

Associate Professor John Robertson, Chair; Professors Jones, Moeeni, Ruby, Seydel; Associate Professors Fish, Ruby, Segall, Syamil, Zhang; Assistant Professor Sindaire

The Department of Computer and Information Technology (CIT) offers the undergraduate curricula in Computer and Information Technology, and the undergraduate and graduate curricula in Business Technology. 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, e-commerce, 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 Bachelor 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 of Science in Computer & Information Technology, a Certificate in Business Information Systems, and minors in eCommerce and Computer and Information Technology. 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](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](http://registrar.astate.edu/bulletin.php)

Major in Computer and Information Technology


**University Requirements:**
- **First Year Making Connections Course (or equivalent)**
- **HIST 2703, HIST 2773 OR PSOC 2703**
- **At least one HIST course in the General Education Core Courses**
  - *C* in ENG 1053 and ENG 1063*
  - *C* in MATH 1023 for BSE*
- **45 Upper Level AFTER 32 HOURS**
  - 124 Earned Credit Hours
  - 18 of the Last 24 Hours at ASU
  - 20 Residence Hours
  - 12 Credit Hours in an Accredited Senior Institution*
  - 2.00 in ASU Coursework and Major Coursework*
  - 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

**General Education Requirements:**
- **General Education Requirements:**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **TOTAL**

**College of Business Core Courses:**
- **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**

**Major Requirements (grade of "C" or better required):**
- **Sem. Hrs.**

**Electives:**
- **Sem. Hrs.**

**Total:**
- **126**

**Major in Business Technology**

Bachelor of Science in Education


**University Requirements:**
- **First Year Making Connections Course (or equivalent)**
- **HIST 2703, HIST 2773 OR PSOC 2703**
- **At least one HIST course in the General Education Core Courses**
  - *C* in ENG 1053 and ENG 1063*
  - *C* in MATH 1023 for BSE*
- **45 Upper Level AFTER 32 HOURS**
  - 124 Earned Credit Hours
  - 18 of the Last 24 Hours at ASU
  - 20 Residence Hours
  - 12 Credit Hours in an Accredited Senior Institution*
  - 2.00 in ASU Coursework and Major Coursework*
  - *ASU Minimum

**General Education Requirements:**
- **General Education Requirements:**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**
  - **Sem. Hrs.**

**College of Business Core Courses:**
- **Sem. Hrs.**

**Major Requirements:**
- **Sem. Hrs.**

**Electives:**
- **Sem. Hrs.**

**TOTAL:**
- **124 Earned Credit Hours**

**Specific General Education Requirements:**
- **General Education Requirements:**
  - **Sem. Hrs.**

**College of Business Core Courses:**
- **Sem. Hrs.**

**Major Requirements:**
- **Sem. Hrs.**

**Electives:**
- **Sem. Hrs.**

**TOTAL:**
- **45 Upper Level Credit Hours**

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.

**Certificate in Business Information Systems (BIS)**

The BIS program incorporates a basic communications component, a Business foundation component, and a strong basic IT component.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications component</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1013, Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Business knowledge component</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2023, Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Information technology component</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2025, Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIT 2035, Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIT 3403, Database Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>25</td>
</tr>
</tbody>
</table>

**University Requirements:**

- **Hours:** 124 Earned Credit Hours
- **Residence Hours:** 32
- **ASU Minimum:** 124 Earned Credit Hours
- **ASU Maximum:** 127-147

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

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Department of Economics and Finance

Professor Jeffrey Pittman, Chair; Professors Brown, Crawford, Keserling, Latanich, Marburger, Taylor; Associate Professor Guha, Robertson; Assistant Professors Hu, Kern, Tew. Instructor Lewis.

The Department of Economics and Finance offers majors in the following areas: Finance, Business Administration, and Economics. Each program is designed to train students in the latest techniques available in that area and equip them to perform in a professional manner in their chosen field.

**BUSINESS ADMINISTRATION PROGRAM:** The major in business administration provides students with a diversified rather than a specialized program in business and economics. It is designed especially for those who need a broad background of training for managing a business of their own or for students planning to enter a large business which maintains its own specialized training program. This program requires a study of every major sector of business activity, with emphasis on creative thinking which will prepare the student for today's employment as well as for meeting tomorrow's challenges.

**ECONOMICS PROGRAM:** The major in economics provides an excellent background for a wide variety of careers in business and government. In addition to acceptance into their management training programs, many businesses employ the economics major to forecast economic trends and to relate changes in economic activity to the individual business. Economists are employed by various governmental bodies to conduct research into all phases of the economy.

**FINANCE PROGRAM:** The finance major prepares students for positions in banks, investment companies, insurance firms, real estate companies, credit unions, government, and major corporations. Finance majors graduate serve as loan officers in banks, manage individual or corporate investment portfolios, or supervise commercial credit departments. Finance majors may choose the Finance major or the Finance major with emphasis in Banking.

**Major in Finance**

**Bachelor of Science**


**University Requirements:**

- **First Year Making Connections Course (or equivalent):**
  - HIST 2783, HIST 2773 OR POSC 2103
  - At least one HIST course in the General Education Core Courses
  - "C" in ENG 1013 and ENG 1013"
  - "C" in MATH 1023 for BSE
  - "C" in MATH 1013 for BIS
  - 124 Earned Credit Hours
  - 12 of the Last 24 Hours in ASU
  - 32 Residence Hours
  - 20 hours with Accredited Senior Institutions
  - 2.00 in ASU coursework and major coursework
  - 31 Hour Minimum Correspondence, CLEP, Advanced Placement, Etc.

**ASU Minimum:**

- **First Year Making Connections Course**
  - HIST 2783, HIST 2773 OR POSC 2103
  - Sem. Hrs. 3

**General Education Requirements:**

- **Sem. Hrs.**
  - Refer to index for General Education Curriculum for Baccalaureate Degrees
  - 43-44

**Specific General Education Requirements:**

- Each student MUST complete MATH 2143 with a "C" or better.
- Each student MUST complete either SOC 2213 OR ANTH 2223

**College of Business Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 4753, Capital Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4723, Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4733, Capital Management</td>
<td>3</td>
</tr>
<tr>
<td>Any Upper Level REI Course</td>
<td>3-6</td>
</tr>
<tr>
<td>Any Upper Level ECON Course</td>
<td>3-6</td>
</tr>
<tr>
<td>STAT 3233, Applied Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3093, Professional Selling and Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>First Year Making Connections Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Finance: Banking</td>
<td>15</td>
</tr>
<tr>
<td>Banking: Students selecting an emphasis in Banking will complete the following courses in length of major requirements</td>
<td>15</td>
</tr>
<tr>
<td>Accounting Elective</td>
<td>3</td>
</tr>
<tr>
<td>Micro Economics Elective</td>
<td>3</td>
</tr>
<tr>
<td>Macro Economics Elective</td>
<td>3</td>
</tr>
<tr>
<td>Management Elective</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Elective</td>
<td>3</td>
</tr>
<tr>
<td>Jr/Sr Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>126</td>
</tr>
</tbody>
</table>

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**Major in Business Administration Bachelor of Science**


**University Requirements:**

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 OR PSOC 2103
- At least one 1000 course in the General Education Core Courses
- C in ENGL 1033 and ENGL 1013 "C" in MATH 1023 for BSE
- 124 Earned Credit Hours
- 32 Residence Hours
- 2-20 in ASU Coursework and Major Ounces
- 51 Hour Placement Corresponding, CLEP Advanced Placement, Etc.
- "ASU Minimum"

**First Year Making Connections Course**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 1053, First Year Experience Business</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 4753, Capital Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4723, Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4733, Capital Management</td>
<td>3</td>
</tr>
</tbody>
</table>

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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 2133 OR MATH 2233.

**College of Business Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 4753, Capital Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4723, Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4733, Capital Management</td>
<td>3</td>
</tr>
<tr>
<td>Any Upper Level REI Course</td>
<td>3-6</td>
</tr>
<tr>
<td>Any Upper Level ECON Course</td>
<td>3-6</td>
</tr>
<tr>
<td>STAT 3233, Applied Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3093, Professional Selling and Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>First Year Making Connections Course</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Finance: Banking</td>
<td>15</td>
</tr>
<tr>
<td>Banking: Students selecting an emphasis in Banking will complete the following courses in length of major requirements</td>
<td>15</td>
</tr>
<tr>
<td>Accounting Elective</td>
<td>3</td>
</tr>
<tr>
<td>Micro Economics Elective</td>
<td>3</td>
</tr>
<tr>
<td>Macro Economics Elective</td>
<td>3</td>
</tr>
<tr>
<td>Management Elective</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Elective</td>
<td>3</td>
</tr>
<tr>
<td>Jr/Sr Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>24</td>
</tr>
</tbody>
</table>

**Major in Business Economics Bachelor of Science**


**University Requirements:**

- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773 OR PSOC 2103
- At least one 1000 course in the General Education Core Courses
- C in ENGL 1033 and ENGL 1013 "C" in MATH 1023 for BSE
- 124 Earned Credit Hours
- 32 Residence Hours
- 2-20 in ASU Coursework and Major Ounces
- 51 Hour Placement Corresponding, CLEP Advanced Placement, Etc.

University Requirements:

ECON 4343, Managerial Economics .................................................................................... ..................... 3
ECON 4363, Global Environmental Policies ............................................................................. 3
ECON 4333, Government Regulation of Business ....................................................................... 3
ECON 4323, Economic Policy Analysis ...................................................................................... 3
ECON 4143, Export Policy and Procedures .................................................................................. 3
ECON 4103, International Trade .................................................................................................. 3

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

ECON 3313, Microeconomic Analysis ........................................................................................... 3
ECON 3333, Macroeconomic Analysis ......................................................................................... 3

Electives: Sem. Hrs. ................................................................. 3-29

First Year Making Connections Course Sem. Hrs. ................................................................... 3

General Education Requirements: Sem. Hrs. ........................................................................ 43-44

College of Business Core Courses: Sem. Hrs. (see beginning of Business section) ............. 36-65

Electives: Sem. Hrs. .................................................................................................................. 3-29

Total: Sem. Hrs. .................................................................................................................. 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) .......................................................... 3

General Education Requirements: Sem. Hrs. ........................................................................ 43-44

Major Requirements: Sem. Hrs. ................................................................................................. 3

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
## Department of Management and Marketing

Professor Gail Hudson, Chair; Professors Bevill, Frey, Hester, Nisio, Roach, Roe. Associate Professors Mello, Philhous, Releyea; Assistant Professors Chang, Cocihara, Fenner, Holder, Hunt, Priya, Saiatkis; Instructor Bracy.

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 major in the department offers 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 realist educational objectives.

**MARKETING PROGRAM:** Marketing is the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives. All types of organizations perform marketing activities to facilitate exchanges. Businesses as well as nonbusiness organizations such as universities, charitable organizations, community theatres, and hospitals perform marketing activities. The major in marketing provides education and training for those interested in planning and implementing successful marketing strategies. The student with energy, ability, and the competitive urge will discover that this major will open many opportunities to serve the public as well as receive material reward. Elective concentration may be developed to emphasize Marketing Management or Logistics (transportation and distribution) functions.

**INTERNATIONAL BUSINESS PROGRAM:** The major in International Business permits students to prepare for managerial careers in international business. It is interdisciplinary in nature and emphasizes the development of language skills as well as an understanding of the sociocultural, political, managerial, marketing, and economic understanding of the international environment.

### Major in Management

**Bachelor of Science**


**University Requirements:**

First Year Making Connections Course (or equivalent)  
HIST 2104, HIST 2713 OR PSYC 2103  
At least one HIST course in the General Education Core Courses  
"C" in ENG 1013 and ENG 1013 "C" in MATH 1013 or MATH 1023  
2.00 in ASU Coursework  
32 Residence Hours  
18 of the Last 24 Hours at ASU  
*ASU Minimum

**First Year Making Connections Course**

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**General Education Requirements:**

Refer to index for General Education Curriculum for Baccalaureate Degrees

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>43-44</td>
</tr>
</tbody>
</table>

Specific General Education Requirements:

Students must complete either SOC 2213 or ANTH 2233

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASU Minimum</td>
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</tr>
<tr>
<td>2.00 in ASU Coursework and Major Coursework</td>
<td></td>
</tr>
<tr>
<td>32 Residence Hours</td>
<td></td>
</tr>
<tr>
<td>18 of the Last 24 Hours at ASU</td>
<td></td>
</tr>
<tr>
<td>45 Upper Level *</td>
<td></td>
</tr>
<tr>
<td>‘C’ in MATH 1023 for BSE</td>
<td></td>
</tr>
<tr>
<td>At least one HIST course in the General Education Core Courses</td>
<td></td>
</tr>
</tbody>
</table>

University Requirements:

Students must complete MATH 2143 with a “C” or better. Each student MUST complete either SOC 2213 OR ANTH 2233

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Requirements:</td>
<td></td>
</tr>
<tr>
<td>MGMT 3123, Applied Research</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3143, Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4123, International Management</td>
<td>3</td>
</tr>
<tr>
<td>Emphasis Area in General Management or Human Resource Management</td>
<td>15</td>
</tr>
</tbody>
</table>

Emphasis Area (Select one of the following):

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Management</td>
<td></td>
</tr>
<tr>
<td>MGMT 4193, Management Internship</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4143, Organizational Change and Development</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3193, Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4133, Compensation Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4153, Management Internship</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4393, Management of Service Operations or MKTG 4113, Service and Non-Pro</td>
<td>15</td>
</tr>
</tbody>
</table>

Human Resource Management:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Relations and Collective Bargaining or MGMT 4173, Compensation Management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT 3163, Social Impact Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4163, HRIS: The Information System</td>
<td>3</td>
</tr>
<tr>
<td>SELECT TWO FROM THE FOLLOWING ELECTIONS</td>
<td>6</td>
</tr>
<tr>
<td>BCOM 3573, Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3173, Special Topics in Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3193, Social Impact Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4143, Organizational Change and Development</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4153, Management Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>10-20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>120-126</td>
</tr>
</tbody>
</table>

Major in Marketing Bachelor of Science

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

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Management:</td>
<td></td>
</tr>
<tr>
<td>MKTG 4113, International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4033, Applied Research</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4043, Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4053, Marketing Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Emphasis Area (Marketing/Management or Logistics)</td>
<td>9-12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logistics</td>
<td>115-125</td>
</tr>
<tr>
<td>MKTG 4163, Transportation</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4113, Concepts of Business Logistics</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4133, International Logistics and Outsourcing</td>
<td>3</td>
</tr>
<tr>
<td>Select one (1) from the following course list</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3053, Cost Accounting with a Managerial Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>BCOM 3573, Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>ECON 4313, Government Regulation of Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON 4333, Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4123, Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4133, International Logistics and Outsourcing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 4043, Marketing Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4033, Marketing Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4053, Professional Selling and Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4123, Organization Purchasing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4293, Transportation</td>
<td>3</td>
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</tbody>
</table>

Electives:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>120-126</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Making Connections Course</td>
<td></td>
</tr>
<tr>
<td>ECON 1101, First Year Experience Business</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees</td>
<td>43-44</td>
</tr>
</tbody>
</table>
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 2783, HIST 2783 Mir PSOC 2103
At least one HIST course in the General Education Core Courses
'G' in ENG 1003 and ENG 1013

Language Requirement:
French, German, or Spanish

IB 4273, Special Problems in International Business
IB 4133, International Law
GEOG 3603, World Regional Geography
AGEC 4023, International Commodity Marketing
ACCT 4143, International Accounting

MKTG 4113, International Marketing
IB 4283, International Business Practicum
ECON 4143, Export Policies and Procedures
FIN 3813, International Financial Management and Banking
CIT 4453, Technologies for Global E-Commerce

Major Requirements:

CIT 4603, Technologies for Global E-Commerce
ECON 4143, Export Policies and Procedures
ACCT 4143, International Accounting
MGMT 3163, Labor Relations and Collective Bargaining
POSC 2103

Electives:

TOTAL 126-134

Minor in Entrepreneurship

FIN 4613, New Venture Financing
MGMT 3163, Entrepreneurship
ECON 3033, Environmental Management
MGMT 4193, Family Business Management

TOTAL 18

Minor in Logistics

ECON 2313, Principles of Microeconomics
ECON 2323, Principles of Microeconomics
MGMT 3613, Organizational Behavior

TOTAL 18

Minor in Management

ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2033, Introduction to Financial Accounting
ECON 2313, Principles of Microeconomics, OR ECON 2323, Economic Issues and Concepts

TOTAL 18

Minor in Marketing

ACCT 2023, Fundamental Accounting Concepts, OR ACCT 2033, Introduction to Financial Accounting
ECON 2323, Principles of Microeconomics, OR ECON 2333, Economic Issues and Concepts

TOTAL 18

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
College of Communications

Professor Osabuohien P. Amienyi, Interim 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, film, 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.

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).

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
For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
Department of Radio-Television

Professor Mary Jackson-Pitts, Interim Chair; Assistant Professors, Pan, Byars, and Zeng; Instructors Brown, Doyle, Pillow, Roberts; Temporary Instructor Abdenour

The program in radio and television offers emphases in broadcast journalism and production, which has options in video/audio, new media or narrative motion picture. 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
Sem. Hrs.
UC 1013, Making Connections
3

General Education Requirements:

Refer to Index for General Education Curriculum for Baccalaureate Degrees
3-44

College Core Requirements:

Sem. Hrs.
RTV 4033, Mass Communications in Modern Society
3
RTV 4073, Communications Law & Ethics
3

Sem. Hrs.

RTV 3003, Reporting for the Electronic Media
3
RTV 4033, Mass Communications in Modern Society
3
RTV 4073, Communications Law & Ethics
3

College Core Requirements:

RTV 4073, Communications Law & Ethics
3

Sem. Hrs.

Department Core Requirements:

RTV 4443, Internship
3
RTV 3373, Introduction to Internet Communications
3
RTV 4233, Electronic Media Management
3

Emphasis Area: (select one of the three emphases)

Broadcast Journalism
Sem. Hrs.
RTV 3303, Reporting for the Electronic Media
3
RTV 3323, Video Production
3
RTV 3373, Introduction to Internet Communications
3
RTV 4233, Electronic Media Management
3

36-37

Production—Video/Audio Option
Sem. Hrs.
RTV 3373, Introduction to Internet Communications
3
RTV 4443, Internship
3
RTV 4473, Advanced Applications in Digital Media and Design
3
RTV 4473, Advanced Internet Communications
3
JOUR 3673, Desktop Publishing and Publication Design
3

Production—New Media Option
Sem. Hrs.
RTV 3373, Introduction to Internet Communications
3
RTV 4443, Internship
3
RTV 4473, Advanced Applications in Digital Media and Design
3
JOUR 3673, Desktop Publishing and Publication Design
3

Electives:

Sem. Hrs.
(Number of hours determined by emphasis area and minor selected)
9-10

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

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

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTV 2003, News Writing</td>
<td>3</td>
</tr>
<tr>
<td>RTV 2023, Audio Production</td>
<td>3</td>
</tr>
<tr>
<td>RTV 3023, Video Production or RTV 3033, Video Post Production</td>
<td>3</td>
</tr>
<tr>
<td>Upper level Radio-Television electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>
College of Education

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:

Department of Teacher Education
Department of Educational Leadership, Curriculum, and Special Education
Department of Psychology and Counseling
Center for Excellence in Education

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
- Early Childhood Special Education (P-4)
- Social Science
- English
- Spanish
- French
- General Science
  - Biology
  - 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 critical to the success of all students. One component of all teacher education programs is standardized tests. The PRAXIS II test assesses basic computation and literacy skills. The PRAXIS II tests measure professional teaching knowledge and academic content knowledge. Below are the PRAXIS I and PRAXIS II scores for the Arkansas State University students during the 2009-2010 academic year. Additional information about teacher education programs at Arkansas State University may be accessed at http://www.astate.edu/education.

Teacher Education Graduates

<table>
<thead>
<tr>
<th>Major Categories</th>
<th>ASU Pass Rate</th>
<th>State Pass Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Skills (PRAXIS I)</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Professional Knowledge* (PRAXIS II) (Including Principles of Learning &amp; Teaching and Pedagogy Exams)</td>
<td>91%</td>
<td>98%</td>
</tr>
<tr>
<td>Academic Content Area* (PRAXIS II)</td>
<td>95%</td>
<td>99%</td>
</tr>
</tbody>
</table>

PROFESSIONAL EDUCATION REQUIREMENTS FOR SECONDARY MAJORS

General and academic requirements for majors in the secondary teacher education program are listed under the various colleges in this Bulletin.

- SCED 2514, Introduction to Secondary Teaching
- PSY 3703, Educational Psychology
- ELSE 3643, The Exceptional Student in the Regular Classroom

Admission to the Teacher Education Program is a prerequisite to enrollment in the following courses:

- SCED 3515, Performance Based Instructional Design
- SCED 4713, Educational Measurement with Computer Applications

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TI___ 4826</td>
<td>Teaching Internship in the Secondary School</td>
<td>12 sem. hrs.</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>33 sem. hrs.</td>
</tr>
</tbody>
</table>

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.

GRODINATION 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).

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
Department of Psychology and Counseling

Loretta Neal McGregor Chair; Professors Hall, Howerton, Johnson, Jones, Saarim; Associate Professors Biondolillo, Christenberry, Claxton, Dodson, Khramtsova, Ochs, Pearce, Peck, Yanowitz; Assistant Professors Davis, 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 2703, HIST 2773 or PSYC 2103
- At least one 1033 course in the General Education Core Courses
- "C" in ENG 1003 and ENG 1013 *
- "C" in MATH 1203 for BSE
- 45 Upper Level AFTER 32 HOURS *
- 124 Earned Credit Hours
- 92 Hours with Accredited Senior Institutions *
- 35 Hours with Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

First Year Making Connections Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 1013, Making Connections: Psychological Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees.</td>
<td>43-44</td>
</tr>
</tbody>
</table>

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2013, Psychology as a Science and a Profession</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3103 and PSY 3103, Quantitative Methods for Behavioral Sciences and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PSY 3171, Experimental Methods in Psychology and Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3173, Research Design in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Psychology as a Natural Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 3203, Psychological Psychology</td>
<td>6</td>
</tr>
<tr>
<td>PSY 4231, Physiological Psychology</td>
<td>5</td>
</tr>
<tr>
<td>PSY 4343, Learning Processes</td>
<td>2</td>
</tr>
<tr>
<td>PSY 4393, Cognitive Psychology</td>
<td>1</td>
</tr>
</tbody>
</table>

Integrative Psychology

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 3001, Problem Psychology</td>
<td>12</td>
</tr>
<tr>
<td>PSY 3131, Cultural Psychology</td>
<td>12</td>
</tr>
<tr>
<td>PSY 3143, Developmental Psychology</td>
<td>6</td>
</tr>
<tr>
<td>PSY 3601, Special Problems</td>
<td>3</td>
</tr>
<tr>
<td>PSY 4111, Today's Families</td>
<td>3</td>
</tr>
<tr>
<td>PSY 4173, Introduction to Psychological Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>PSY 4723, Developmental Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 4603, Psychological Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Area of Concentration in Psychology (approved by advisor) | 18-24 |

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

Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>12-19</td>
</tr>
<tr>
<td>TOTAL</td>
<td>124</td>
</tr>
</tbody>
</table>

Minor in Psychology

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective in Psychology (in addition to PSY 2013)</td>
<td>12-19</td>
</tr>
<tr>
<td>TOTAL</td>
<td>18</td>
</tr>
</tbody>
</table>

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For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
Department of Educational Leadership, Curriculum, and Special Education

Professor Mitchell Hotfield, Chair; Professors Beineke, 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 corequisite 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 grades 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.

Department of Teacher Education

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

The mission of the Department of Teacher Education encompasses three areas: teaching, service, and research. The major purpose of the department is teaching, which contributes significantly toward the accomplishment of the department's primary goals: preparing Professionally Emerging Teachers and Emerging Professionals in the fields of early childhood education, elementary education, middle grades education, secondary education, and reading. The department also offers a graduate program in early childhood services (see Graduate Bulletin). A commitment is made to students in the degree programs as faculty assist individuals through a well-defined advisement process. Another function of the department is service, consultation to public and private schools, to federal and state agencies and programs, and to professional organizations. The area of research and scholarly pursuits completes the mission of the department and exists for the purpose of defining problems and identifying solutions that contribute to the improvement of specific educational and pedagogical issues and concerns.

Transfer Credit Policy

Courses completed at two-year institutions will not be accepted as transfer credits for upper level specialty area and professional studies courses numbered 3000 and above. Transfer credit in the major from any institution is subject to approval by the Department of Teacher Education. Reviews must be requested in a timely manner so as to allow for adequate review by the department. Compatibility of course content, length of time since course completion, and adequacy of relevant field experiences will form but not be limited to the criteria for judging acceptance.

Acceptance of Work from Previous Degrees or Enrollments

Course work in the major field completed more than seven (7) years prior to the student's enrollment in either the BSE in Early Childhood Education or the BSE in Middle Level Education will be reviewed for relevance and may not be acceptable to completion of the BSE degree.

Endorsement in Teaching Grades 5 and 6

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

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

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


The Arkansas Department of Education has changed to teacher and administrative licenses. These changes affect students entering Arkansas State University beginning in academic year 1997-98. Please consult with your advisor for information as you proceed through your program of studies. Additional information is available in department offices and the Office of the Dean of the Education Department. The department and faculty will work with students on an individual basis to assist them with scheduling. Students are responsible for communicating with their advisor; 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 ENGL 1033 and ENGL 1033 *
' C' in MATH 1023 in BSE
124 Earned Credit Hours
18 of the Last 24 Hours in ASU *
32 Residency Hours *
32 Hours with Accredited Senior Institutions *
2-20 in ASU coursework and Major coursework
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

First Year Making Connections Course
UC 1013, Making Connections: Education
Sem. Hrs. 3

General Education Requirements:

Sem. Hrs. 43-44

Specific General Education Requirements:

All Early Childhood Education majors MUST take the following:
ART 2553, Fine Arts Visual OR MUS 2503, Fine Arts Musical OR THEA 2203, Fine Arts Theatre
BOLS 1003, Biological Science Laboratory AND BOLS 1003, Biological Science
ENGL 1033, Composition I
ENGL 1033, Composition II
HIST 2763, World Civilization To or Since 1750
HIST 2773, The United States To or Since 1786
MATH 1023, College Algebra
MATH 2113, Mathematics for School Teachers I
MATH 2123, Mathematics for School Teachers II
MATH 2123, Mathematics for School Teachers II (or equivalent)
MUS 2503, Fine Arts Musical
NRS 2203, Basic Human Nutrition
PHSC 1201, Physical Science Laboratory AND PHSC 1203, Physical Science
PSY 1013, Introduction to Psychology
SOCM 1203, Oral Communication

Specialty Area Requirements:

Sem. Hrs. 15

ARED 3702, Public School Art for the Classroom Teacher
GSP 3003, Science in the Elementary Classroom
HIST 2763, World Civilization To or Since 1750
HIST 2773, The United States To or Since 1786
MATH 2113, Mathematics for School Teachers I
MATH 2113, Mathematics for School Teachers I (or equivalent)
MUS 2503, Fine Arts Musical
NRS 2203, Basic Human Nutrition
PHSC 1201, Physical Science Laboratory AND PHSC 1203, Physical Science
SOCM 1203, Oral Communication

Licensure Requirement:

Sem. Hrs. 3

HIST 2763, History of Arkansas

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

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


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

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 ENGL 1033 and ENGL 1033 *
' C' in MATH 1023 in BSE
40 Upper Level AFTGR 35 HOURS *
124 Earned Credit Hours
18 of the Last 24 Hours in ASU *
32 Residency Hours *
57 Hours with Accredited Senior Institutions *
2-20 in ASU coursework and Major coursework
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

First Year Making Connections Course
UC 1013, Making Connections: Education
Sem. Hrs. 3

General Education Requirements:

Sem. Hrs. 43-44

Specific General Education Requirements:

All Early Childhood Education majors MUST take the following:
ART 2553, Fine Arts Visual OR MUS 2503, Fine Arts Musical OR THEA 2203, Fine Arts Theatre
BOLS 1003, Biological Science Laboratory AND BOLS 1003, Biological Science
ENGL 1033, Composition I
ENGL 1033, Composition II
HIST 2763, World Civilization To or Since 1750
HIST 2773, The United States To or Since 1786
MATH 1023, College Algebra
MATH 2113, Mathematics for School Teachers I
MATH 2113, Mathematics for School Teachers I (or equivalent)
MUS 2503, Fine Arts Musical
NRS 2203, Basic Human Nutrition
PHSC 1201, Physical Science Laboratory AND PHSC 1203, Physical Science
PSY 1013, Introduction to Psychology
SOCM 1203, Oral Communication

Licensure Requirement:

Sem. Hrs. 3

HIST 2763, History of Arkansas

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

Specialty Area Requirements:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2113</td>
<td>Mathematics for School Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2123</td>
<td>Mathematics for School Teachers II</td>
<td>3</td>
</tr>
</tbody>
</table>

Licensure Requirement:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3018</td>
<td>History of Arkansas</td>
<td>3</td>
</tr>
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</table>

Professional Education Requirements:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 2022</td>
<td>Introduction to Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td>ECH 3003</td>
<td>Effective Teaching Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3083</td>
<td>Integration of Technology into the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4003</td>
<td>Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4091</td>
<td>Teaching Internship in Early Childhood Education—Kindergarten</td>
<td>6</td>
</tr>
<tr>
<td>ELSE 4043</td>
<td>Behavior Intervention and Consultation</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 4053</td>
<td>Methods of Working with Individuals with Mild Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 4103</td>
<td>Methods of Working with Young Children with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 4161</td>
<td>Teaching Internship in the Elementary School—Primary Grades 1-3</td>
<td>6</td>
</tr>
<tr>
<td>RDNG 3203</td>
<td>Foundations of Reading</td>
<td>3</td>
</tr>
<tr>
<td>RDNG 4403</td>
<td>Early Literacy: Theory and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 40

Major Requirements:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 2013</td>
<td>Survey of Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3023</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3033</td>
<td>Children's Literature in the Preschool and Primary Grades</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3043</td>
<td>Program Development and Management for Early Care and Education Centers</td>
<td>3</td>
</tr>
<tr>
<td>ECH 3053</td>
<td>Curriculum Development in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4012</td>
<td>Classrooms Management</td>
<td>2</td>
</tr>
<tr>
<td>ECH 4013</td>
<td>Pre-Internship Experience</td>
<td>1</td>
</tr>
<tr>
<td>ECH 4023</td>
<td>Methods and Materials of Language Arts and Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4033</td>
<td>Methods and Materials of Math and Science</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 4103</td>
<td>Assessment of the Young Child with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 4161</td>
<td>Teaching Internship in the Elementary School—Primary Grades 3-5</td>
<td>6</td>
</tr>
<tr>
<td>ELSE 4163</td>
<td>Methods of Working with Individuals with Mild Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 4165</td>
<td>Collaboration for Special Education Service Delivery</td>
<td>3</td>
</tr>
<tr>
<td>ELSE 4173</td>
<td>Methods for Working with Young Children with Exceptionalities</td>
<td>3</td>
</tr>
</tbody>
</table>

*Prerequisite: Admission into the Teacher Education Program

TOTAL: 136-137

The online bulletin can be accessed at 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 https://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 advisor.

University Requirements:

- First Year Making Connections Course (or equivalent)
- HIST 2763: History of the World Since 1500
- MLED 3013: Foundations of Middle-Level Education
- MLED 3053: Integration of Technology into the Curriculum
- MLED 3083: Methods and Materials for Teaching Language Arts and Social Studies in the Middle Grades
- MLED 3113: Literacy Through Literature for the Middle Grades
- MLED 3131: Effective Teaching Strategies
- MLED 3171: Key Issues of Teaching and Learning in Middle Grades (Prerequisite: MLED 3020, MLED 3070)
- MLED 4013: Methods and Materials for Teaching Language Arts and Social Studies in the Middle Grades (Prerequisite: MLED 3020, MLED 3070)
- MLED 4023: Methods and Materials for Teaching Mathematics and Science in the Middle Grades (Prerequisite: MLED 3020, MLED 3070)
- MLED 4091: Teaching Internship in Early Childhood Education—Kindergarten
- MLED 4103: Behavior Intervention and Consultation
- MSED 4061: Methods of Working with Individuals with Mild Disabilities
- MSED 4071: Methods of Working with Individuals with Moderate Disabilities
- MSED 4081: Methods of Working with Individuals with Severe Disabilities
- MSED 4121: Methods of Working with Young Children with Exceptionalities
- MSED 4161: Teaching Internship in the Elementary School—Primary Grades 1-3
- RDNG 3203: Foundations of Reading
- RDNG 4403: Early Literacy: Theory and Practice

Total: 33

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

Licensure Requirement:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1103 AND 1101</td>
<td>Environmental Geology and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>HIST 3021</td>
<td>History of Arkansas</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3153, Mathematics for School Teachers II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 3133, Mathematics for School Teachers II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 3133, Mathematics for School Teachers II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3223, Geometry for the Middle School Teacher</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 2103, Precalculus Mathematics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 3123, Discrete Structure</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 2003, Calculus I</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1503 AND 2103</td>
<td>Biology of Animals and Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1501, Biology of Plants and Laboratory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIOL 2003, Principles of Ecology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 1003, Introduction to Chemistry</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Other electives as approved by advisor

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3323</td>
<td>Literature for Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3003</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGSC 2003</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2713 BM 1023</td>
<td>World Civilization To or Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR 2773</td>
<td>The United States To or Since 1876</td>
<td>3</td>
</tr>
</tbody>
</table>

Other electives as approved by advisor

Total: 9

Total: 130-133

Department of Health, Physical Education, and Sport Sciences

Professor Jim L. Stillwell, Chair; Professor Adams; Associate Professors Church, Dean, Finicum, Graves; Assistant Professors Bryant, LaVetter, Moneyhar; Instructors Adams, Hilton, Huckabee, Mathis, Perkey, Silva.

The mission of the Department of Health, Physical Education, and Sport Sciences is to provide curricula and instruction to enhance the development of physical, mental, social, and emotional qualities essential for living a quality life and to provide quality professional preparation programs in the fields of athletic training, exercise science, health, physical education and sport management that meet appropriate standards.

To accomplish its mission, the department places its primary focus on quality teaching. In addition, 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 engages 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)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1013 OR 1023</td>
<td>World Civilization To or Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR 2773</td>
<td>The United States To or Since 1876</td>
<td>3</td>
</tr>
</tbody>
</table>

First Year Making Connections Course (or equivalent)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1013 OR 1023</td>
<td>World Civilization To or Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2763 OR 2773</td>
<td>The United States To or Since 1876</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 2213</td>
<td>Introduction to Sociology</td>
<td>3</td>
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</tbody>
</table>

Refer to Index for General Education Curriculum for Baccalaureate Degrees

Specific General Education Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1003 AND 1101</td>
<td>Microbiology for Nursing and Allied Health Professionals and Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2123 AND 2125</td>
<td>Human Anatomy/Physiology I and Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1011</td>
<td>General Chemistry I and Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1033</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PE 1002</td>
<td>Concepts of Fitness</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2013</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

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

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
### Required Support Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2203 AND BIOL 2201, Human Anatomy and Physiology I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ES 4693, Techniques of Strength Training and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>ES 3623, Basic Physiology of Activity</td>
<td>3</td>
</tr>
<tr>
<td>ES 4733, Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>ES 3633, Human Anatomy and Anatomical Fundamentals of Motion</td>
<td>3</td>
</tr>
<tr>
<td>HP 2013, General Health, Sport, and Exercise</td>
<td>3</td>
</tr>
<tr>
<td>ES 3743, Research and Statistical Methods in Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2513, Principles of Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HP 3401, Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>EHS 3224, Interdisciplinary Clinical Psychopharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2054, General Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

### Athletic Training Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 2301 AND AT 2301, Emergency Management in Athletic Training and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 2301, Clinical Experience in Athletic Training</td>
<td>1</td>
</tr>
<tr>
<td>AT 2311, Clinical Experience in Athletic Training I</td>
<td>1</td>
</tr>
<tr>
<td>AT 2401, Clinical Experience in Athletic Training II</td>
<td>1</td>
</tr>
<tr>
<td>AT 2401, Clinical Experience in Athletic Training III</td>
<td>1</td>
</tr>
<tr>
<td>AT 2731 AND AT 2731, Care and Prevention of Athletic Injuries and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 2863, Foundations of Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>AT 3301, Clinical Instruction in Athletic Training I</td>
<td>3</td>
</tr>
<tr>
<td>AT 3401, Clinical Experience in Athletic Training II</td>
<td>1</td>
</tr>
<tr>
<td>AT 3401, Clinical Experience in Athletic Training III</td>
<td>1</td>
</tr>
<tr>
<td>AT 3401, Clinical Experience in Athletic Training IV</td>
<td>1</td>
</tr>
<tr>
<td>AT 3401, Clinical Experience in Athletic Training V</td>
<td>1</td>
</tr>
<tr>
<td>AT 3721 AND AT 3721, Advanced Assessment of Athletic Injuries and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 3743 AND AT 3741, Therapeutic Exercise and Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>AT 3853 AND AT 3851, Therapeutic Modalities and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AT 4301, Clinical Instruction in Athletic Training V</td>
<td>3</td>
</tr>
<tr>
<td>AT 4401, Clinical Experience in Athletic Training VI</td>
<td>1</td>
</tr>
<tr>
<td>AT 4401, Clinical Experience in Athletic Training VII</td>
<td>1</td>
</tr>
<tr>
<td>AT 4401, Clinical Experience in Athletic Training VIII</td>
<td>1</td>
</tr>
<tr>
<td>AT 4411, Clinical Experience in Athletic Training IX</td>
<td>1</td>
</tr>
<tr>
<td>AT 4413, Clinical Experience in Athletic Training X</td>
<td>1</td>
</tr>
<tr>
<td>AT 4723, Athletic Training Administration</td>
<td>3</td>
</tr>
<tr>
<td>AT 4743, Athletic Training Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

### 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 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 50 hours being accumulated at Arkansas State University and completion of all assigned directed observer proiciencies.
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.


Prior to taking first clinical experience course the student must hold:
- Professional liability insurance (minimum $2,000,000/4,000,000 coverage)
- Acceptable immunization status including TB screening
- Completed physical examination form

### University Requirements:

- **First Year Making Connections Course (or equivalent):**
  - HIST 2503, HIST 2753 OR POLS 2703
  - At least one HIST course in the General Education Core Courses
  - "C" in ENG 1013 and ENG 1015
  - "C" in MATH 1225 for BSE
  - 45 Upper Level AFTER 32 HOURS
  - 124 Earned Credit Hours
  - 32 Hours Residence
  - 32 Hours with Accredited Senior Institutions
  - 2.00 in AGI Coursework and Major Coursework
  - 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.
  - "ASU Minimum"

### First Year Making Connections Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPS 1013, Introduction to HPLS or HPLS 1803, Foundations of HPLS</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Education Requirements:

- **Total Hours Required:** 43
- **Specific General Education Requirements:**
  - All students in the Exercise Science program are required to take the following general education science courses and must complete three courses with a "C" or better:
    - CHEM 1013, Gen. Chem 1 AND CHEM 1011, Gen Chem 1 Lab

### Exercise Science Major Course Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 2201 AND BIOL 2201, Human Anatomy and Physiology I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ES 4693, Techniques of Strength Training and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>ES 3623, Basic Physiology of Activity</td>
<td>3</td>
</tr>
<tr>
<td>ES 3713, Nutrition for Health, Sport and Exercise</td>
<td>3</td>
</tr>
<tr>
<td>ES 3733, Techniques of Aerobic Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>ES 3763, Research and Statistical Methods in Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>ES 4713, Exercise Prescription for Special Populations</td>
<td>3</td>
</tr>
<tr>
<td>ES 4833, Exercise Prescription and Fitness Programming</td>
<td>3</td>
</tr>
<tr>
<td>ES 3743, Cardiovascular Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ES 3753, Exercise and Statistical Methods in Exercise Science</td>
<td>3</td>
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<tr>
<td>ES 4763, Exercise and Statistical Methods in Exercise Science</td>
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<tr>
<td>ES 4763, Exercise Prescription and Fitness Programming</td>
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<td>ES 4783, Exercise Prescription and Fitness Programming</td>
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<td>ES 4763, Exercise Prescription and Fitness Programming</td>
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### Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
</table>

**Total:** 124
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
Coaching: (Required in Arkansas for coaching football, basketball, and track) Sem. Hrs.
ES 4093, Techniques of Strength Training and Conditioning ............................................................... 3
ES 3533, Basic Physiology of Activity ........................................................................................................ 3
PE 3872, Rules and Officiating ................................................................................................................... 2
PE 3413, Concepts of Athletic Training ....................................................................................................... 3
PE 4173, Legal Issues in Sports .................................................................................................................... 3
PE 4573, Organization and Administration of Intercollegiate Athletics .................................................. 3
PE 4602, Theory and Practice of Coaching Football ................................................................................... 3
PE 4602, Theory and Practice of Coaching Track ......................................................................................... 3
PE 3823, Theory and Practice of Coaching Baseball .................................................................................... 3
PE 4892, Theory and Practice of Coaching Volleyball .................................................................................. 3
PE 4883, Theory and Practice of Coaching Soccer ...................................................................................... 3
PE 4783, Organization and Administration of Physical Education ........................................................... 3
PE 480V, SPTW: Coaching Young Athlete .................................................................................................. 3
PE 4843, Philosophy and Ethics in Sports ...................................................................................................... 3
ES 3553, Basic Physiology of Activity ........................................................................................................ 3
ES 4873, Organization and Administration of Physical Education ........................................................... 3

ES 3533, Basic Physiology of Activity ........................................................................................................ 3
HLTH 2331, Principles of Personal Health ................................................................................................. 3
HLTH 3333, Strategies for Teaching Health Education ............................................................................. 3
PE Activity Courses (one team and one racket sport) ............................................................................. 4
PE 3832, Physical Education for Teachers of Young Children .................................................................. 2
PE 3842, Theory and Practice of Coaching Rhythmic Activities ................................................................ 2
PE 3852, Theory and Practice of Coaching Dance ..................................................................................... 2
PE 3862, Theory and Practice of Coaching Aerobics ............................................................................... 2
PE 4173, Legal Issues in Sports .................................................................................................................... 2
PE 4602, Theory and Practice of Coaching Track ......................................................................................... 2
PE 4783, Organization and Administration of Physical Education ........................................................... 2
PE 4803, Practicum in Elementary Physical Education .............................................................................. 3

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) HPES 2793, HPES 2793 OR PSYC 2103 3
At least 1, 154 credits in the General Education Core Courses
C in ENG 1003 and ENG 1013 *
C in MATH 1023 or ECE 1113 *
45 Upper Level AFTER 30 HOURS *
18 of the Last 24 Hours at ASU *
30 Residence Hours *
57 Hours with Accredited Senior Institutions *
2-20 in ASU Workforce and Major coursework
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

ASU Minimum
First Year Making Connections Course Sem. Hrs.
HPES 1013, Introduction to HPES or HPES 1833, Foundations of HPES (Making Connections) .......... 3

General Education Requirements: Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees ........................................ 43

Sport Management Major Course Requirements: Sem. Hrs.
CT 1023, Microcomputer Applications ................................................................................................. 3
ES 3143, Research and Statistics in Exercise Science ............................................................................... 3
HPES 4866, Internship in HPES or HPES 1883, Internship in HPES II ................................................. 6
HPES 4893, Internship in HPES or HPES 3803, Internship in HPESS III ............................................. 6
HPES 3893, Facility and Event Management ........................................................................................... 3
PE 3863, Economic and Financial Agent for Sport Organizations .......................................................... 3
PE 3873, Facility and Event Management ................................................................................................. 3
PE 3893, Sports in Society ........................................................................................................................ 3
PE 4743, Legal Issues in Sports ................................................................................................................ 3
PE 4773, Organization and Management of Sports Programs ...................................................................... 3
PE 4843, Philosophy and Ethics in Sports ................................................................................................. 3
PE 4873, Organization and Administration of Intercollegiate Athletics .................................................. 3
PE 4893, Internship in HPES or HPES 3803, Internship in HPESS III ................................................. 6
ES 3553, Basic Physiology of Activity ...................................................................................................... 3
ES 4873, Organization and Administration of Physical Education ........................................................... 3

Select one of the following Minors:

Minor in General Business
21 Credit Hours (Refer to Index for course listings)

Minor in Journalism
16 Credit Hours (Refer to index for course listings)

Minor in Marketing
18 Credit Hours (Refer to index for course listings)

Minor in Radio-Television
21 Credit Hours (Refer to index for course listings)

Electives: 18-21

TOTAL 124

SPECIAL DEPARTMENTAL NONREFUNDABLE COURSE FEES

Teacher Education Admission Fee $25.00

Teacher Education Portfolio Fee $30.00

Teacher Internship Fee $10/credit hour

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The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
College of Engineering

Professor David Beasley, 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 prerequisite 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 accrediting body for engineering programs in the United States), 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 4003-5) or Honors Senior Thesis (HNRS 4893-8). Either course would be valuable in preparation for graduate studies.

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

General Education Curriculum

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Courses</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Life Sciences</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Physical Sciences</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Health and Wellness</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Critical Thinking</td>
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<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Science</td>
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<td>7</td>
</tr>
<tr>
<td>Science Elective</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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 Engineering
Bachelor of Science in Engineering

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

University Requirements:

General Education Curriculum for the College of Engineering .................................................... 33

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

- 45 Upper Level AFTER 36 HOURS *
- 124 Earned Credit Hours
- 18 of the Last 24 Hours at ASU *
- 36 Hours with Accredited Senior Institutions *
- 31 Hour Minimum Correspondence, CLEP, Advanced Placement, Etc.

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

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
Civil Engineering Program

Professors Thomas Parsons, Director of Civil Engineering, R. Clifft; Assistant Professors A. Elsayed, Y. Hwang; 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, foundation design, 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 cover 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 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.
3. Some graduates will have developed the necessary skills and knowledge to apply this knowledge in engineering practice;
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, economic, environmental, and societal context;
8. A recognition of the need for, and an ability to engage in, lifelong learning; and
9. A knowledge of contemporary issues.
10. An ability to explain basic concepts in management and business; and
11. An ability to explain basic concepts of leadership.

With respect to the second overall educational objective:

1. Graduates will have the 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.
4. Graduates will have an ability to explain basic concepts of public policy.

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 6-semester degree plan is available at [http://registrar.astate.edu/](http://registrar.astate.edu/)

**University Requirements:**

First Year Making Connections Course (or equivalent).................. 4
ENGR 1313, ENGR 1315, ENGR 1323, ENGR 1325, ENGR 1327, ENGR 1329, CE 1323, ENGRI 1323
At least one HIST course in the General Education Core Courses
1 ‘C’ in ENG 1023 and ENG 1013
1 ‘C’ in MATH 1223 for BSE
45 Upper Level After 39 Hours

Total hours required: 124 Earned Credit Hours
18 of the Last 24 Hours at ASU
57 Hours with Accredited Senior Institutions
57 Hours with Accredited Senior Institutions
2.0 in ASU Coursework and Major Coursework
31 Hour Minimum correspondence, CLEP, Advanced Placement, Etc.

‘ASU Minimum’

**General Education Requirements**

Refer to the General Education Curriculum for the College of Engineering

Sem. Hrs. 37

**Additional Support Courses:**

Refer to the Additional Support Courses for the College of Engineering

Sem. Hrs. 19

**Engineering Core Requirements:**

Refer to the Engineering Core Requirements for the College of Engineering

Sem. Hrs. 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:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CE 2202</td>
<td>Civil Engineering Presentation</td>
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<tr>
<td>CE 2223</td>
<td>Plane Surveying</td>
</tr>
<tr>
<td>CE 3313</td>
<td>Structural Analysis I</td>
</tr>
<tr>
<td>CE 3315</td>
<td>Structural Analysis II</td>
</tr>
<tr>
<td>CE 3319</td>
<td>Structural Analysis III</td>
</tr>
<tr>
<td>CE 3923</td>
<td>Introduction to Environmental Engineering</td>
</tr>
<tr>
<td>CE 3927</td>
<td>Water and Waste Systems</td>
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<tr>
<td>CE 4223</td>
<td>Transportation Engineering</td>
</tr>
<tr>
<td>CE 4233</td>
<td>Foundation Engineering</td>
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<tr>
<td>CE 4243</td>
<td>Reinforced Concrete Design</td>
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<tr>
<td>CE 4253</td>
<td>Soil Mechanics</td>
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<tr>
<td>CE 4263</td>
<td>Fluid Mechanics</td>
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<tr>
<td>CE 4273</td>
<td>Structural Steel Design</td>
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<tr>
<td>ENGR 4741</td>
<td>Fluid Mechanics Laboratory</td>
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<td></td>
<td><strong>TOTAL</strong></td>
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The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

Electrical Engineering Program

Professor Robert Engleken, 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; electronic/electrical systems; computers; electromagnetic devices; communications; and electrical control. Thus, there are numerous 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 (BSEE) 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 have come from diverse backgrounds and localities, can be found in nearly every type of engineering position, and have excelled in their careers. Numerous graduates have acquired advanced degrees (master- and doctoral-level) at other institutions after obtaining the bachelor degree at ASU. 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.

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

PROGRAM EDUCATIONAL OBJECTIVES

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 (see below). This assessment process results in periodic modification to specific courses and the overall 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 specific educational objectives of the BSEE degree program are:

1. All BSEE graduates will have a broad education, in the fundamentals of core engineering and electrical engineering principles and professional practice, that forms a strong, flexible base and enables them to fill a variety of responsible engineering positions.
2. All BSEE graduates will have education and training in engineering and electrical engineering that will enable them to successfully perform in entry-level engineering positions that overlap their specific coursework and training. Some graduates will prefer and be capable of continuing their education in graduate school.

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

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

1. A good understanding of mathematics, science, and representative core areas of engineering and electrical 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 engineering teams;
4. An ability to identify, formulate, and solve representative 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, economic, environmental, 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:

10. Graduates will have an ability to use representative techniques, skills, and modern tools (for example, instrumentation) necessary for entry-level practice in either electrical engineering or the broader field of engineering;
11. Graduates will be able to analyze and design an engineering system, component, or process to meet desired needs and specifications within constraints;
12. Some graduates will have developed the necessary skills and knowledge to be accepted into and be successful in a graduate education program;
13. Graduates will have representative knowledge of computer and software applications - oriented topics;
14. Graduates will be able to analyze and design complex electrical systems in areas that overlap their coursework and training; and
15. Graduates will have a knowledge of advanced mathematical topics appropriate to program objectives, including applications of probability and statistics.

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 2703, HIST 2733 OR POEC 2703
At least one HIST course in the General Education Core Courses
C in ENG 1013 and ENG 1013 *
C in MATH 1023 for BSE *
13 or More Credit Hours
13 or More Credit Hours
18 of the Last 24 Hours in ASU *
32 Residence Hours
37 Hours with Accredited Senior Institutions *
2.00 in ASU Coursework and Major Coursework
11 Hours Minimum 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

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

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

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University Requirements:

First Year Making Connections Course (or equivalent)
- HIST 2723, HIST 2725, HIST 2730, PSCI 3103
- At least one HIST course in the General Education Core Courses
- "C" in ENGS 1003 and ENG 1013
- "C" in MATH 1023 for BSE
- 45 Upper Level AT-PF 30 HOURS
- 18 of the Last 24 Hours at ASU
- 33 Residence Hours
- 57 Hours with Accredited Senior Institutions
- 2.00 in ASU Coursework and Major Coursework

Bachelor of Science in Mechanical Engineering

Major in Engineering

A complete 5-semester degree plan is available at http://registrar.astate.edu/bulletin.php

Major in Engineering Bachelor of Science in Mechanical Engineering

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
The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
**Emphasis Area**

Select one of the two options:

### Studio Art

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>ART ED 2513, History of Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 1013, Drawing I Making Connections or ART 1033, Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2013, Design I Making Connections</td>
<td>3</td>
</tr>
<tr>
<td>ART 2023, Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2033, Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2043, Drawing III</td>
<td>3</td>
</tr>
<tr>
<td>ART 2053, Survey of Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2063, Survey of Art History II</td>
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</tr>
<tr>
<td>ART 4330, Senior Exhibition</td>
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<tr>
<td>TOTAL</td>
<td>151-152</td>
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</tbody>
</table>

### Art Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ARTH 2593, Survey of Art History II</td>
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</tr>
<tr>
<td>ART 1013, Drawing I Making Connections or ART 1033, Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2013, Design I Making Connections</td>
<td>3</td>
</tr>
<tr>
<td>ART 2023, Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2033, Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2043, Drawing III</td>
<td>3</td>
</tr>
<tr>
<td>ART 2053, Survey of Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2063, Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 4330, Senior Exhibition</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>151-152</td>
</tr>
</tbody>
</table>

**Additional General Requirements for Teacher Education:**

- HILTH 2513, Principles of Personal Health                           | 3       |
- TOTAL                                                                | 69      |

- See Bachelor of Science in Education degree—College of Education
- Prerequisite: Admission to the Teacher Education Program

---

**Major in Art**

**Bachelor of Fine Arts**


---

**Major in Graphic Design**

**Bachelor of Fine Arts**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2593</td>
<td>Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2013</td>
<td>Design III</td>
<td>3</td>
</tr>
<tr>
<td>ART 1043</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 1023</td>
<td>Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 1033</td>
<td>Drawing III</td>
<td>3</td>
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<tr>
<td>ART 1033</td>
<td>Drawing IV</td>
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</tr>
<tr>
<td>ART 2503</td>
<td>Survey of Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2503</td>
<td>Survey of Art History II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Courses used to meet the requirements for the major cannot be used to meet the requirements for the minor.**

### Studio Art Core:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2803</td>
<td>Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 3803</td>
<td>Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 3103</td>
<td>Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3113</td>
<td>Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 3803</td>
<td>Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

### Upper-level electives in Graphic Design:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2423</td>
<td>Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 1013</td>
<td>Design I</td>
<td>3</td>
</tr>
</tbody>
</table>

### Upper Level Electives in Art History

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1033 AND 1043, Drawing I and II</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History Electives (including ARTH 4573, History of Graphic Design)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>124-125</td>
<td></td>
</tr>
</tbody>
</table>

### Minor in Art**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1013</td>
<td>Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1023</td>
<td>Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2503 AND 2510, Survey of Art History I and II</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

### Minor in Art History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2503 AND 2510, Survey of Art History I and II</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

### Minor in Graphic Design**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1013</td>
<td>Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 1023</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2403</td>
<td>Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>Upper-level electives in Graphic Design...</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>


---

### Department of Music

**Bachelor of Arts**

A complete 8-semester degree plan is available at [http://registrar.astate.edu/](http://registrar.astate.edu/)

#### University Requirements:

- **First Year Making Connections Course (or equivalent)**
  - HIST 2763, HIST 2773
  - OR POSC 2103

- **Intermediate World Education Core Courses**
  - ENG 1013
  - 3 hours in ENG 1013 and ENGL 1013

- **Upper Level After 32 Hours**
  - 124 Earned Credit Hours

- **18 of the Last 24 Hours at ASU**
- **Residence Hours**
- **2.00 in ASU Coursework and Major coursework**
- **11 Hour Maximum Correspondence, CLEP, Advanced Placement, etc.**

#### Major in Music

**ASU Minimum**

- **First Year Making Connections Course**
  - MUS 1403, Music Connections

**General Education Requirements**

- **Sem. Hrs.**
- **Specific General Education Requirements:**
  - Students with the major MUST take the following:
    - THEA 2503, Fine Arts-Theatre
    - ART 2503, Fine Arts-Visual

**Language Requirement**

- **Sem. Hrs.**
For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
For up-to-date Bulletin information, visit http://registrar.astate.edu/.

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php.
Minor in Music
(Not for Teacher Certification)

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1511</td>
<td>Aural Theory I</td>
</tr>
<tr>
<td>MUS 1513</td>
<td>Aural Theory II</td>
</tr>
<tr>
<td>MUS 2513</td>
<td>Theory II</td>
</tr>
</tbody>
</table>

Music Theory

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 2533</td>
<td>History of Western Music I</td>
</tr>
<tr>
<td>MUS 3520</td>
<td>History of Western Music II</td>
</tr>
<tr>
<td>MUS 4512</td>
<td>Church Music</td>
</tr>
<tr>
<td>MUS 4245</td>
<td>History of Jazz</td>
</tr>
<tr>
<td>THEA 4273</td>
<td>History of Musical Theatre</td>
</tr>
</tbody>
</table>

Applied Music (composition, instrumental, keyboard, or voice-4 semesters in one performance area)

Music electives may be used to satisfy upper-level courses

Twelve hours must be upper-level courses.

TOTAL 23-24

Emphasis Area (Select one of the four options):

Acting:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 4203</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>THEA 2123</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Fundamentals of Stagecraft</td>
</tr>
<tr>
<td>THEA 3233</td>
<td>Stage Makeup</td>
</tr>
<tr>
<td>THEA 3243</td>
<td>Stage Costume Construction</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Studies in Dramatic Literature</td>
</tr>
<tr>
<td>THEA 3232</td>
<td>Theatre Laboratory</td>
</tr>
<tr>
<td>THEA 4373</td>
<td>Special Problems: Acting</td>
</tr>
<tr>
<td>THEA 4413</td>
<td>Special Problems: Costuming</td>
</tr>
<tr>
<td>THEA 4633</td>
<td>Senior Project</td>
</tr>
</tbody>
</table>

Electives (advisor approval required)

TOTAL 42

Specific General Education Requirements:

GPA Theatre students MUST take:

MUS 2510, Fine Arts Musical AND ART 2933, Fine Arts-Visual

Major Requirements:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 4203</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>THEA 2123</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Fundamentals of Stagecraft</td>
</tr>
<tr>
<td>THEA 3233</td>
<td>Stage Makeup</td>
</tr>
<tr>
<td>THEA 3243</td>
<td>Stage Costume Construction</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Studies in Dramatic Literature</td>
</tr>
<tr>
<td>THEA 3232</td>
<td>Theatre Laboratory</td>
</tr>
<tr>
<td>THEA 4373</td>
<td>History of the Theatre I and II</td>
</tr>
<tr>
<td>THEA 4633</td>
<td>Senior Project</td>
</tr>
</tbody>
</table>

Emphasis Area (Select one of the four options):

Acting:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 4203</td>
<td>Introduction to Theatre</td>
</tr>
<tr>
<td>THEA 2123</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Fundamentals of Stagecraft</td>
</tr>
<tr>
<td>THEA 3233</td>
<td>Stage Makeup</td>
</tr>
<tr>
<td>THEA 3243</td>
<td>Stage Costume Construction</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Studies in Dramatic Literature</td>
</tr>
<tr>
<td>THEA 3232</td>
<td>Theatre Laboratory</td>
</tr>
<tr>
<td>THEA 4373</td>
<td>History of the Theatre I and II</td>
</tr>
<tr>
<td>THEA 4633</td>
<td>Senior Project</td>
</tr>
</tbody>
</table>

Electives (advisor approval required)

TOTAL 42

Design Technology:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 4233</td>
<td>Principles of Stage Design</td>
</tr>
<tr>
<td>THEA 2123</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Fundamentals of Stagecraft</td>
</tr>
<tr>
<td>THEA 3233</td>
<td>Stage Makeup</td>
</tr>
<tr>
<td>THEA 3243</td>
<td>Stage Costume Construction</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Studies in Dramatic Literature</td>
</tr>
<tr>
<td>THEA 3232</td>
<td>Theatre Laboratory</td>
</tr>
<tr>
<td>THEA 4373</td>
<td>Special Problems: Computer Aided Design</td>
</tr>
<tr>
<td>THEA 4413</td>
<td>Special Problems: Sound Design and Production for the Theatre</td>
</tr>
<tr>
<td>THEA 4633</td>
<td>Senior Project</td>
</tr>
</tbody>
</table>

Electives (advisor approval required)

TOTAL 38

Directing:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 4233</td>
<td>Principles of Stage Design</td>
</tr>
<tr>
<td>THEA 2123</td>
<td>Beginning Acting</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Fundamentals of Stagecraft</td>
</tr>
<tr>
<td>THEA 3233</td>
<td>Stage Makeup</td>
</tr>
<tr>
<td>THEA 3243</td>
<td>Stage Costume Construction</td>
</tr>
<tr>
<td>THEA 3223</td>
<td>Studies in Dramatic Literature</td>
</tr>
<tr>
<td>THEA 3232</td>
<td>Theatre Laboratory</td>
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<tr>
<td>THEA 4373</td>
<td>Special Problems: Computer Aided Design</td>
</tr>
<tr>
<td>THEA 4413</td>
<td>Special Problems: Sound Design and Production for the Theatre</td>
</tr>
</tbody>
</table>

Electives

TOTAL 38

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
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
1C in MATH 1023 for BSE
45 Upper Level AFTER 36 HOURS *
124 Credit Hours
16 of the Last 24 Hours at ASU*
32 Residence Hours
18 of the Last 24 Hours at ASU*
At least one HIST course in the General Education Core Courses
32 Residence Hours*

*ASU Minimum

First Year Making Connections Course
Sem. Hrs.
UC 1013. Making Connections ........................... 3

General Education Requirements:

Sem. Hrs.
Refer to index for General Education Curriculum for Baccalaureate Degrees ................................................... 43-44

Specific General Education Requirements:

BA Theatre students MUST take:
MUSP 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, Principle of Design ............................................. 3
THEA 2203, Voice and Movement II .................................... 3
THEA 2213, Stage Makeup ..................................................... 3
THEA 2223, Studies in Dramatic Literature ......................... 3
THEA 2252, Theatre Laboratory (must take twice) .............. 4
THEA 4103, Stage Directing ...................................................... 3
THEA 4233 OR THEA 4273, History of the Theatre I and II ... 3

31

Design Requirements:

Sem. Hrs.
Choose ONE of the following
THEA 4223, Scene Design
THEA 4243, Stage Costume Design
THEA 4333, Stage Lighting
THEA 4413, Sound Design

3

Theatre Electives:

Sem. Hrs.
6

Minor in Theatre

Sem. Hrs.
18-21

Electives:

Sem. Hrs.
16-20

TOTAL 124

Minor in Theatre

Sem. Hrs.

THEA 1203, Beginning Acting ............................................. 3
THEA 2233, Fundamentals of Stagecraft .......................... 3
THEA 2233, Stage Makeup ..................................................... 3
THEA 4273, History of the Theatre I and II ....................... 12

TOTAL 21

Bachelor of Arts

Major in Theatre

Sem. Hrs.

MUSP 1111, Voice .......................................................... 8
THEA 2203, Voice and Movement for Theatre I .............. 3
THEA 2213, Creative Imagination .................................. 3
THEA 2223, Introduction to Dance .................................... 2
THEA 2233, Stage Makeup ..................................................... 3
THEA 3213, Fundamentals of Stagecraft ......................... 3
THEA 3223, Studies in Dramatic Literature ...................... 3
THEA 3243, Musical Theatre ............................................. 3
THEA 3253, Acting Shakespeare ...................................... 3
THEA 3263, Period Styles in Acting .................................. 3
THEA 3273, Advanced Acting ........................................... 3
THEA 4253, Voice and Movement .................................. 3
THEA 4263, Fine Arts-Musical ............................................. 3
THEA 4413, Sound Design .................................................. 3
THEA 4243, Stage Costume Design .................................. 3
THEA 4333, Stage Lighting .................................................. 3
THEA 4413, Sound Design .................................................. 3

TOTAL 36

Upper Division Theatre Electives (no more than 4 hours of lab and 6 hours of summer theatre) ...................... 12

TOTAL 126

Major Requirements:

Sem. Hrs.

MUSP 1111, Voice .......................................................... 8
THEA 2203, Voice and Movement for Theatre I .............. 3
THEA 2213, Creative Imagination .................................. 3
THEA 2223, Introduction to Dance .................................... 2
THEA 2233, Stage Makeup ..................................................... 3
THEA 3213, Fundamentals of Stagecraft ......................... 3
THEA 3223, Studies in Dramatic Literature ...................... 3
THEA 3243, Musical Theatre ............................................. 3
THEA 3253, Acting Shakespeare ...................................... 3
THEA 3263, Period Styles in Acting .................................. 3
THEA 3273, Advanced Acting ........................................... 3
THEA 4253, Voice and Movement .................................. 3
THEA 4263, Fine Arts-Musical ............................................. 3
THEA 4413, Sound Design .................................................. 3
THEA 4243, Stage Costume Design .................................. 3
THEA 4333, Stage Lighting .................................................. 3
THEA 4413, Sound Design .................................................. 3

TOTAL 36

Upper Division Theatre Electives (no more than 4 hours of lab and 6 hours of summer theatre) ...................... 12

TOTAL 126

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
College of Humanities and Social Sciences
Professor Carol A. O’Connor, Dean; Associate Professor, Deborah Chappel Traylor, Interim 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, Political Science, and World Languages and Cultures and a Bachelor of Science in Education in English, Social Science, and World Languages and Cultures. We also offer Certificate and Licensure Endorsement Programs in English as a Second Language. Most degree programs offer minors. Minors are also available in the following fields: African-American Studies, Cognitive Science, Family Studies, Folklore Studies, German, International Studies, Medieval Studies, Modern European Studies, Religious Studies, and Women and Gender Studies. A minor in Homeland Security and Disaster Preparedness is offered in partnership with the College of Nursing and Health Professions. The College provides an Associate of Applied Science degree in Law Enforcement. It also offers 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 World Languages and Cultures
- Department of Political Science

GRADUATION REQUIREMENT
Bachelor of Science in Education
In addition to meeting the University Requirements for all Baccalaureate Degrees as presented by the University, and the Teacher Education Program Requirements as presented by the College of Education, all candidates for a Bachelor of Science in Education degree in the College of Humanities and Social Sciences must also have a grade point average of 2.50 on all work attempted overall, on work in the major field, and if a transfer student, on all work taken at this institution.

FOREIGN LANGUAGE REQUIREMENT
All candidates for the Bachelor of Arts degree in the College of Humanities and Social Sciences must demonstrate proficiency in a foreign language. This may be done in either of the following ways:

1. By completing the second semester of the intermediate year of foreign language at the college level. Students with no foreign language experience must enroll in the first semester of the elementary year and complete 12 hours of a single language. Students with some experience and proficiency should consult with a member of the language faculty about their readiness for more advanced courses. (No credit will be awarded for courses waived.)

2. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to completion of the second semester of the intermediate year of a foreign language at the college level.
Department of Criminology, Sociology, and Geography

Professor Anthony Troy Adams, Chair; CRIMINOLOGY: Associate Professors Chu, Salinger; Assistant Professor Botz; Instructor Monroe; SOCIOLOGY: Associate Professors Donahue, Hill; Assistant Professor Kulkarni, Shaffer, Ulrich; ANTHROPOLOGY: Professor Clements; Associate Professor Burns; Assistant Professor Morrow; GEOGRAPHY: Professor Srostow; Assistant Professor Coleman; Instructor Wright

The Department of Criminology, Sociology, and Geography offers students courses designed to provide them with a better understanding of themselves and their environment. Within this multi-disciplinary department, students have the 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, judiciary and probation officers, parole officers, and correctional and research personnel.

Major in Criminology
Bachelor of Arts


University Requirements:
First Year Making Connections Course (or equivalent)
HIST 2703, HIST 2773 OR POSC 2103
At least one 1003 course in the General Education Core Courses
'C' in ENG 1003 and ENG 1013
'C' in MATH 1023 for BSE
45 Upper Level AFTER 32 HOURS
32 Earned Credit Hours
12 Earned Credit Hours
3 AAS Hours
32 Residence Hours
57 Hours with Accredited Senior Institutions

Major Requirements: Sem. Hrs.
CRIM 1023, Introduction to Criminal Justice (Prerequisite for CRIM 4103) ..........................................................     3
CRIM 3183, Institutional Corrections; OR
Foreign Language (Refer to index for foreign language requirements).......................................................... ....   0-12
General Education Requirements:
First Year Making Connections Course Sem. Hrs.
SOC 1013, Making Connections Sociology ................................................... .43-44

Major Requirements: Sem. Hrs.
CRIM 2253, Criminal Investigation
SOC 3383

Major electives (choose 21 hours from the list below with a minimum of 12 hours in geography) .......................    21
SOC 4223, Urban Sociology
SOC 4233, Social Organization
SOC 4203, Social Deviance
SOC 4213, Social Problems
SOC 4223, Social Problems
SOC 4293, Methods of Social Research

Crime Scene Investigation and Law Enforcement Administration

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 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 of Applied Science**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 1003, Microcomputer Applications OR CS 1013, Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1003, Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023, College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Criminal Justice Institute Coursework**

- Criminal Justice Institute Core Courses: 35-38 hrs.
- Total Program Requirement: 65-68 hrs.

### Law Enforcement Administration

**Associate of Applied Science**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIS 1003, Biological Sciences OR BIS 2003, Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>CIT 1003, Microcomputer Applications OR CS 1013, Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1003, Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1013, Composition II</td>
<td>3</td>
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<tr>
<td>MATH 1023, College Algebra</td>
<td>3</td>
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<tr>
<td>PSY 2013, Introduction to Psychology</td>
<td>3</td>
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</tbody>
</table>

**Criminal Justice Institute Coursework**

- Criminal Justice Institute Core Courses: 39 hrs.
- Total Program Requirement: 69 hrs.

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**Major in Law Enforcement**

**Associate of Applied Science**

**General Education Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENG 1003, Composition I</td>
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<tr>
<td>ENG 1013, Composition II</td>
<td>3</td>
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<tr>
<td>BISL 1003, Biology and Laboratory</td>
<td>4</td>
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<td>CS 1043, Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023, College Algebra</td>
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<tr>
<td>POSC 1013, American Government</td>
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<tr>
<td>PHYS 2051, General Physics I</td>
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</table>

**Criminal Justice Institute Coursework**

- Criminal Justice Institute Core Courses: 39 hrs.
- Total Program Requirement: 69 hrs.

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The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)
Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>SOC 2213</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3331 AND 381, Social Statistics AND Laboratory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>SOC 4203</td>
<td>Methods of Social Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4213</td>
<td>Applied Research</td>
<td>3</td>
</tr>
<tr>
<td>Political Science Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Psychology Elective</td>
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<td>Sociology Elective</td>
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Electives:

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<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>SOC 4063</td>
<td>Sociology of Disasters</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4003</td>
<td>Perspectives on Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3363</td>
<td>Sociology of Religion</td>
<td>3</td>
</tr>
<tr>
<td>SW 4363</td>
<td>Religion and Spirituality in Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4343</td>
<td>GIS for Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PR 4603</td>
<td>Crisis Communication</td>
<td>3</td>
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<tr>
<td>POSC 4513</td>
<td>Disaster Response -- Operations and Management</td>
<td>3</td>
</tr>
<tr>
<td>POSC 4133</td>
<td>Intergovernmental Relations -- Federalism in an Era of Insecurity</td>
<td>3</td>
</tr>
<tr>
<td>SW 4203</td>
<td>Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>NRS 4523</td>
<td>Risk Identification and Prevention in Disaster and Emergency Preparedness</td>
<td>3</td>
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<tr>
<td>Choice of three (3) courses from within a single track</td>
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<td>TOTAL</td>
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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 collaborative efforts of the specialists working within them.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>NRS 4003</td>
<td>Principles of Disaster and Emergency Preparedness</td>
<td>3</td>
</tr>
<tr>
<td>POSC 4900</td>
<td>Capstone in Homeland Security and Disaster Preparedness</td>
<td>3</td>
</tr>
<tr>
<td>Track 1: Healthcare in Homeland Security and Disaster Preparedness</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Track 2: Managing Disaster and Crisis</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Track 3: Social, Cultural &amp; Political Factors</td>
<td>8</td>
<td></td>
</tr>
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<td>TOTAL</td>
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Minor in Criminology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CRIM 2263</td>
<td>Criminal Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 3193</td>
<td>Community Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 3223</td>
<td>Police and Society</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 4103</td>
<td>Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>18</td>
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</table>

Minor in Geography

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective in Geography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective in Geography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
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</table>

Minor in Children's Advocacy Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 4203</td>
<td>Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SW 3343</td>
<td>Child Abuse and Neglect</td>
<td>3</td>
</tr>
<tr>
<td>SW 4363</td>
<td>Case Management in Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>Select One of the Following:</td>
<td>3</td>
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</tr>
<tr>
<td>SOC 4073</td>
<td>Sociology of Family Violence</td>
<td>3</td>
</tr>
<tr>
<td>SW 4213</td>
<td>Introduction to Domestic Violence</td>
<td>3</td>
</tr>
<tr>
<td>Select One of the Following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOC 4213</td>
<td>The Sociology of Childhood and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>SW 3303</td>
<td>Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>Select One of the Following:</td>
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</tr>
<tr>
<td>CRIM 2231</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 3203</td>
<td>Criminal Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>21</td>
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</table>

Minor in Interdisciplinary Family Studies

FAMILY CORE

Interdisciplinary Core (3 hours required) | 3 |
| (Student should complete a minimum of twelve hours in the minor before registering for the interdiscipliary course) | 3 |
| NRS 4003 or ECH 403 | 3 |
| Sociology: (3 hours required) | 3 |
| SOC 3223 | Sociology of Marriage and Family | 3 |
| SOC 3133 | Sociology of Intimate Relationships | 3 |
| Human Development: (3 hours required) | 3 |
| PSY 3413 | Child Psychology | 3 |
| PSY 4403 | Adolescence Psychology | 3 |
| Families in Social Context: (3 hours required) | 3 |
| SW 3213 | Introduction to Child Welfare | 3 |
| SW 3343 | Child Abuse and Neglect | 3 |
| Family and Health: (3 hours required) | 3 |
| HTH 3365 | Human Sexuality | 3 |
| Elective in Family Studies | 3 |
| 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. | 3 |
| TOTAL | 21 |

Minor in Sociology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective in Sociology (in addition to SOC 2213, Principles of Sociology)</td>
<td>3</td>
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<tr>
<td>Elective in Sociology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>18</td>
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</tr>
</tbody>
</table>

Department of English and Philosophy

Professor Jerry Ball, Interim Chair; ENGLISH: Professors Calloway, Clements, Harris, Lamm, Lott, Malpezzi, Moore, Spikes, Schichler; Associate Professors Burns, Chappel-Traylor, Collins, Hansen, Henderson, Haley, Nance, Assistant Professors Gennuso, Henderson, Homer, Hunter, Spaniol; Instructors Bridges, Duclos, Patton, C. Williams, G. Williams, Young; PHILOSOPHY: Professor Carr; Associate Professors Cave, Sartorelli, R. Schroer; Assistant Professors J. Schroer

Courses offered in English are designed to promote the effective use of oral and written English; to encourage selective and interpretative reading; to increase the capacity to understand and appreciate the classics, the humanities, and the fine arts; and to foster the development of personal philosophies based upon time-tested truths.

It is assumed that any student enrolling in any literature class will be able to demonstrate competent writing ability.

The program for students majoring in English is designed to afford a liberal education to meet the needs of teacher certification; to create a humane basis for careers in business, in the learned professions, or in government; and to prepare for graduate study.

Courses offered in philosophy are designed to provide students with the knowledge and logical skills to understand and critically evaluate the intellectual, moral, and religious choices they encounter.

The program for students majoring in philosophy seeks to provide the background necessary for those preparing for law school, seminary, and graduate school as well as for those who simply seek a liberal education as the foundation of a career in business or industry.

Writing Clinic

The department offers a special free service to students at all levels: a writing laboratory designed to help students with individual problems. Contact the department office for details.

Major in English

Bachelor of Arts

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

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2153, HIST 2173 OR POLS 2103

At least one: HIST course in the General Education Core Courses

10

C in ENG 1003 and ENG 1013 *

45 Upper Level AFTER 36 HOURS *

124 Earned Credit Hours

18 of the Last 24 Hours at ASU *

57 Hours with Accredited Senior Institutions *

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

ASU Minimum

First Year Making Connections Course

Sem. Hrs.
ENG 1023, Making Connections Humanities ................................................................. 3

General Education Requirements:

Sem. Hrs.
Foreign Language (Refer to index for foreign language requirements) ........................................ 0-12

Language Requirement:

Sem. 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 Philosophy
Bachelor of Arts


University Requirements:

First Year Making Connections Course (or equivalent)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
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</thead>
<tbody>
<tr>
<td>HIST 2763, HIST 2773 OR PSOC 2103</td>
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</table>

<table>
<thead>
<tr>
<th>Core Curriculum</th>
<th>Hrs.</th>
</tr>
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<tbody>
<tr>
<td>ENG 4131, Introduction to Fiction</td>
<td></td>
</tr>
<tr>
<td>PSY 3703, Educational Psychology</td>
<td></td>
</tr>
<tr>
<td>PSY 4443, Psychological Measurement and Applications</td>
<td></td>
</tr>
<tr>
<td>PSY 4521, Physiological Psychology</td>
<td></td>
</tr>
<tr>
<td>PSY 4533, Cognitive Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 3211, Social Behavior</td>
<td></td>
</tr>
<tr>
<td>SOC 4211, Sociology of Childhood and Adolescence</td>
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</tbody>
</table>

**Total: 124**

First Year Making Connections Course Sem. Hrs.

Electives: Sem. Hrs.

TOTAL 124

Major in English
Bachelor of Science in Education


University Requirements:

First Year Making Connections Course (or equivalent)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>HIST 2763, HIST 2773 OR PSOC 2103</td>
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<tr>
<td>SOC 3211, Social Behavior</td>
<td></td>
</tr>
<tr>
<td>SOC 4211, Sociology of Childhood and Adolescence</td>
<td></td>
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</tbody>
</table>

**Total: 124**

**Minor in Cognitive Science**

Completion of the minor will require eighteen (18) hours in courses related to cognition, learning, development and the mind — at least nine (9) of which must be upper-level courses, and no more than six (6) which are in the student’s major.

Core Curriculum Sem. Hrs.

Additional fifteen (15) hours from the courses listed below Sem. Hrs.

**Total: 15**

Bachelor of Science in Education


University Requirements:

First Year Making Connections Course (or equivalent)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
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</thead>
<tbody>
<tr>
<td>HIST 2763, HIST 2773 OR PSOC 2103</td>
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<th>Hrs.</th>
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<tr>
<td>ENG 4131, Introduction to Fiction</td>
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<tr>
<td>PSY 3703, Educational Psychology</td>
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<tr>
<td>PSY 4443, Psychological Measurement and Applications</td>
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<td>PSY 4521, Physiological Psychology</td>
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<td>PSY 4533, Cognitive Psychology</td>
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<tr>
<td>SOC 3211, Social Behavior</td>
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<tr>
<td>SOC 4211, Sociology of Childhood and Adolescence</td>
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</table>

**Total: 124**

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Minor in English

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>ENG 2703: Introduction to Poetry and Drama</td>
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</tr>
<tr>
<td>English elective in British Literature</td>
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</tr>
<tr>
<td>Upper-level Electives in English</td>
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Minor in Folklore Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 2613: Introduction to Folklore</td>
<td>3</td>
</tr>
<tr>
<td>Folklore Studies elective</td>
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<tr>
<td><strong>TOTAL</strong></td>
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Minor in History and Philosophy of Science and Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>PHIL 3423: Philosophy of Science</td>
<td></td>
</tr>
<tr>
<td>PHIL 4733: Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 4823: Ethics, Computers, and Society</td>
<td></td>
</tr>
<tr>
<td>PHIL 3713: Ethics in the Health-Professions</td>
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</tr>
<tr>
<td>HIST 3753: History of American Technology</td>
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</tr>
<tr>
<td>HIST 4503: History of Medicine</td>
<td></td>
</tr>
<tr>
<td>HIST 3751: History and Memory</td>
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<tr>
<td>HIST 3320: United States Environmental History</td>
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<tr>
<td>BIOL 4573: History of Biological Ideas</td>
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<tr>
<td>BIOL AS4/CH4/PHYS 494/SC: Science in the Cinema</td>
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<tr>
<td><strong>TOTAL</strong></td>
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Minor in Philosophy

<table>
<thead>
<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>PHIL 1323: Introduction to Philosophy</td>
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</tr>
<tr>
<td>PHIL 1303: Logic and Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>Upper-level Electives in History of Philosophy</td>
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<tr>
<td>Upper-level Electives in Philosophy</td>
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Minor in Religious Studies

<table>
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<tr>
<th>Course</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>ENG 1643: The Impulse Inward Religion</td>
<td>3</td>
</tr>
<tr>
<td>ART 4503: Early Christian through Gothic Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 4503: Early Christian through Gothic Art History</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4902: Mythology</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4313: Service in The Western Religious Experience</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3313: Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHI 4623: Eastern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3313: Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PLVS 3105: Religion in Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Completion of the minor will require eighteen (18) hours from the approved courses listed below, including at least one elective course in each of the three main fields of study: philosophy, history, and science.

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)
Department of History

Associate Professor Gina Hogue, Chair; Professors Anderson, Gilbert, Miler, O’Connor, Rousey, Sydorenko; Associate Professors Barita, Hronke, Jones-Branch, Key, Maynard, Pobst, Wilkerson-Freeeman; Assistant Professors Edwards, Hu.

The Department of History offers to all students the university courses of general cultural and educational value. It seeks not only to acquaint students with the development of human civilization and with their duties as citizens, but to advance them toward their vocational and professional objectives.

The major in history with the Bachelor of Arts degree is recommended for those seeking a liberal education and aspiring to careers in history, law, theology, journalism, and library work; in local, state, and national public service; in business where a knowledge of domestic and foreign affairs is desirable; and in every area which requires an understanding of human activity.

The major in social science with the Bachelor of Science in Education degree is offered specifically to prepare teachers of social science in institutions of secondary education.

Major in History
Bachelor of Arts

A complete 8-semester degree plan is available at [http://registrar.astate.edu/](http://registrar.astate.edu/)

University Requirements:

**First Year Making Connections Course (or equivalent)**
- HIST 2103
- HIST 2763 or POCS 2103

**World History (include HIST 1013 or HIST 1023 and 6 hours of Junior/Senior level courses)**
- 8

**United States History (includes HIST 2763 and 2773 and 9 hours of Junior/Senior level courses)**
- 15

**General Education Core Courses**
- 43-44

**Geography**
- 6

**Economics**
- 3

**Political Science (Junior/Senior Level)**
- 3

**Sociology**
- 3

**History electives (Junior or Senior level)**
- 6

**World History electives (Junior or Senior level)**
- 6

**History electives (Junior or Senior level)**
- 6

**World History electives (Junior or Senior level)**
- 6

**Minor in History**

Bachelor of Science in Education

A complete 6-semester degree plan is available at [http://registrar.astate.edu/](http://registrar.astate.edu/)

University Requirements:

**First Year Making Connections Course (or equivalent)**
- HIST 2103, HIST 2763 or POCS 2103

**At least one HIST course in the General Education Core Courses**
- 6

**World History (include HIST 1013 or HIST 1023 and 6 hours of Junior/Senior level courses)**
- 9

**University Requirements:**

- 2.00 in ASU Coursework and Major Coursework *
- 31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.
- 18 of the Last 24 Hours at ASU *
- 57 Hours with Accredited Senior Institutions *
- **ASU Minimum**
- 124

**First Year Making Connections Course**

**Sem. Hrs.**
- HIST 1003, Making Connections / Legal Professions .......................................................... 3

**General Education Requirements:**

**Sem. Hrs.**
- Refer to index for General Education Curriculum for Baccalaureate Degrees .......................... 43-44

**Language Requirement:**

**Sem. Hrs.**
- Foreign Language (Refer to index for foreign language requirements) .............................................. 0-12

**Major Requirements:**

**Sem. Hrs.**
- HIST 1013 AND HIST 1023 (one course may also be counted in General Education) .............. 5
- Elective History Courses (at least 9 hours must be at the Senior level): ........................................ 3
- History electives (Junior or Senior level): ...................................................................................... 6
- History electives (Junior or Senior level): ...................................................................................... 6
- World History electives (Junior or Senior level): ........................................................................... 6
- World History electives (Junior or Senior level): ........................................................................... 6
- *At least one HIST course in the General Education Core Courses
- **At least one HIST course in the General Education Core Courses

**Electives:**

**Sem. Hrs.**
- Must include 12 hours at Junior/Senior level ........................................................................... 17-26

**NOTE:** The Department of History recommends that its majors select a minor in a field approved by their academic advisor.

**TOTAL 124**

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)
POSC 4213, Politics of the Former Soviet Lands
PHIL 3223, History of Modern Philosophy
GER 3173, German Civilization
FR 3613, French Civilization
One of these courses:
Elective .................................................................................................................................................................. 3
HIST 4253, Rise of Modern Germany
HIST 4223, History of Great Britain 1688-1982
HIST 4123, Soviet Russia
HIST 3283, Society and Thought in Europe
HIST 3273, Age of Crisis: Europe, 1870 to Present
HIST 3253, Modern Europe, 1750-1870
POSC 3223, European Political Systems
GEOG 3713, Geography of Europe and the Former USSR Lands
ENG 4213, Medieval Literature

Minor in African-American Studies
Sem. Hrs.
HIST 3703, African American History I ................................................................. 3
HIST 3803, African American History II ............................................................... 3
ART 4723, African American Art History ................................................................ 6
ENG 3414, African American Folklore .................................................................... 3
ENG 4383, Minority Literature ................................................................................ 3
HIST 3103, Cartographies of Africa ...................................................................... 3
HIST 3203, The U.S. Civil Rights Movement ....................................................... 3
JOUR 4223, Race, Gender and Media .................................................................. 3
PHIL 4173, Defining Race ..................................................................................... 3
POSC 3103, Black Politics ..................................................................................... 3
PHIL 3773, De-
ENG 3414, African American Folklore .................................................................... 3
ENG 4383, Minority Literature ................................................................................ 3
HIST 3103, Cartographies of Africa ...................................................................... 3
HIST 3203, The U.S. Civil Rights Movement ....................................................... 3
JOUR 4223, Race, Gender and Media .................................................................. 3
PHIL 4173, Defining Race ..................................................................................... 3
POSC 3103, Black Politics ..................................................................................... 3
PHIL 3773, De-

Minor in Medieval Studies
Sem. Hrs.
ENG 4213, Medieval Literature .............................................................................. 3
HIST 3103, Medieval Europe ................................................................................ 3
HIST 3103, The Crusades .................................................................................... 3
PHIL 3213, History of Ancient and Medieval Philosophy ...................................... 3
ART 4313, Renaissance Art History ....................................................................... 6
HIST 4203, Early Christian Thought to Gothic Art History .................................. 3
HIST 3203, History of England, 1066 to 1558 ..................................................... 3
HIST 3103, Cartographies of Africa ...................................................................... 3
HIST 3203, The U.S. Civil Rights Movement ....................................................... 3
PHIL 4173, Defining Race ..................................................................................... 3
POSC 3103, Black Politics ..................................................................................... 3

Minor in Modern European Studies
Sem. Hrs.
GEOG 3713, Geography of Europe and the Former USSR Lands .......................... 3
POSC 3203, European Political Systems .............................................................. 3
European History electives .................................................................................. 9
Three of the following courses:
HIST 3223, History of Great Britain 1558-1882 ................................................ 3
HIST 3223, History of Great Britain 1558-1882 ................................................ 3
HIST 4223, History of Great Britain 1888-1982 .................................................. 3
HIST 4223, Rise of Modern Germany ................................................................. 3
Elective ................................................................................................................... 3
One of these courses:
ENG 3263, British Literature since 1800 ............................................................... 3
ENG 4263, British Literature ................................................................................ 3
HIST 3223, History of Great Britain 1888-1882 ................................................ 3
GER 3173, German Civilization ......................................................................... 3
GER 4173, German Civilization ......................................................................... 3
GER 3173, German Civilization ......................................................................... 3
POSC 4213, Politics of the Former Soviet Lands OR History course from the list above

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

Department of Political Science

Associate Professor Richard Wang, Chair; Professor Hartwig; Associate Professors Harding, McLean, Reese; Assistant Professors Hacker, Levenbach, Lofton, Miller, Tusalem; Visiting Assistant Professor Czobor-Lupp.

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 6-semester degree plan is available at http://registrar.astate.edu/

University Requirements:
- First Year Making Connections Course (or equivalent)
- HIST 2763, HIST 2773, POSC 2003
- General Education Core Courses
  - ENG 1003 and ENG 1013
  - MATH 1013 or BUS
- 45 Upper Level AFTER 30 HOURS
- 13 Earned Credit Hours
- 24 Earned Credit Hours A”
- 32 Resident Hours
- 52 Hours Resident Status Institutions
- 2.00 in ASU Coursework and Major Coursework
- 3.00 Hour Maximum, CLEP, Advanced Placement, etc.

First Year Making Connections Course
POSC 2103, Making Connections: Politics and Law ............................................. 3

General Education Requirements:
- Refer to index for General Education Curriculum for Baccalaureate Degrees ... 43-44
- NOTE: POSC 2103 will NOT be accepted to fulfill General Education Requirements in this major.

Language Requirement:
- Refer to index for foreign language requirements ........................................... 0-12

Major Requirements:
- At least three semester hours in each of the following areas:
  - American Politics
  - Comparative Politics
  - International Relations
  - Political Theory
  - Public Administration
  - Public Law
  - Concentration in one of these areas is expected.

Electives:

For up-to-date Bulletin information, visit 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 collaborative efforts of the specialists working within them.

NRS 4003, Principles of Disaster and Emergency Preparedness
NRS 4113, Management of Mass Casualty Incidents
POSC 4513, Disaster Management
SW 4363, Religion and Spirituality in Social Work Practice

Sem. Hrs.
3
3
3

TOTAL 12

Minor in Political Science

Electives in Political Science (excluding PR 210, PR 211)

Sem. Hrs. 21

Minor in Spanish

Choice of one course from one of the other two tracks

Sem. Hrs.
3

TOTAL 18

Department of World Languages and Cultures

Associate Professor Unrold, Chair; Associate Professors Baum, Johnson, Lombida, Owens; Assistant Professor Gil-Osle, Instructor Coleman.

The Department of World Languages and Cultures offers courses in Arabic, Chinese, French, German, and Spanish, to facilitate the communication skills, knowledge and appreciation of diverse languages and cultures that are necessary for students to achieve a successful professional career in today’s global society. Courses offered in world languages are designed to train students to read, write, speak and understand the target language; to acquaint them with the literature and culture of the countries where the target language is spoken; to provide a linguistic tool necessary in many professions; and to afford a source of literacy and aesthetic pleasure. The Department of World Languages and Cultures prepares students to be linguistically competent and literate in the culture(s) associated with the languages studied and offers introductory to advanced level instruction, as well as major and minor degree programs.

The Bachelor of Arts degree with emphasis in French and Spanish is recommended for those who are seeking to employ Spanish or French as a vehicle of communication in their future profession and aspiring careers in any area which requires linguistic and cultural communication skills in these languages.

The Bachelor of Science in Education degree with emphasis in French and Spanish is offered specifically to prepare teachers of Spanish and French for teaching at institutions of secondary education.

The TESOL Licensure Endorsement Program is offered to provide Teacher Education students with the opportunity to obtain an additional licensure endorsement to teach English to speakers of other languages at the K-12 levels.

The TESOL Certificate Program provides non-Teacher Education students the opportunity to obtain an ASU certificate for teaching English to speakers of other languages. This program is designed for individuals seeking to teach in institutions that do not require a licensure endorsement from the Arkansas Department of Education.

Major in World Languages & Cultures with French Emphasis

Bachelor of Arts

* "C-grade" is required for any course to apply to the emphasis
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:

First Year Making Connections Course (or equivalent)

Sem. Hrs. 6

HIST 2703, HIST 2713, or POSC 2103

At least one HIST course in the General Education Core Courses

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.

Bachelor of Science

Sem. Hrs. 40

ENG 1023, Making Connections Humanities

General Education Requirements:

Sem. Hrs.
3

Refer to index for General Education Curriculum for Baccalaureate Degrees.

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

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
### University Requirements:

**Bachelor of Science in Education Requirements:**
- **General Education Requirements:**
  - Specific General Education Requirements:
    - Students with the major must take the following:
      - HIST 2763, HIST 2773 OR POSC 2103
      - 45 Upper Level ARTS 33 HOURS
      - 124 Earned Credit Hours
      - 33 Total Hours

**Major Requirements:**
- **Bachelor of Science in Education:**
  - 8-9 Electives:
    - 3 Sem. Hrs.
    - 124 Total Sem. Hrs.

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)
### Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 3103</td>
<td>Spanish Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3403</td>
<td>Advanced Spanish Grammar</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3413</td>
<td>Introduction to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4473</td>
<td>Reading and Composition in Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4413</td>
<td>Survey of Peninsular Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4422</td>
<td>Conversing Peninsular Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4441</td>
<td>Survey of Latin-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3503</td>
<td>Introduction to Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 4503</td>
<td>Special Topics (may be repeated for credit if content varies)</td>
<td>3</td>
</tr>
</tbody>
</table>

### University Requirements:

- First Year Making Connections Course (or equivalent)
  - HIST 2703, HIST 2713 OR PSYC 2703
  - At least one 180-hour course in the General Education Core Courses
  - **C** in ENG 1013 and ENG 1015
  - **C** in MATH 1123 for BSE
  - 45 Upper Level AFT 36 HOURS
  - 3 Sem. Hrs. ENG 1023, Making Connections Humanities

### Major in World Languages & Cultures with Spanish Emphasis

A Bachelor of Science in Education

A complete B-semester degree plan is available at [http://registrar.astate.edu/](http://registrar.astate.edu/)

### General Education Requirements:

- Refer to index for General Education Curriculum for Baccalaureate Degrees
- **C** in ENG 1023, Making Connections Humanities

### Professional Education Requirements:

- **C** in ENG 1023, Making Connections Humanities

### ESL Licensure Endorsement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLA 4013</td>
<td>Methods and Materials for Teaching Second Languages</td>
<td>3</td>
</tr>
<tr>
<td>TILA 4826</td>
<td>Teaching Internship in the Secondary School</td>
<td>12</td>
</tr>
<tr>
<td>*<strong>SCED 3515, Performance Based Instructional Design (with lab)</strong></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>SCED 4713</td>
<td>Educational Measurement with Computer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

- **C** in ENG 1023, Making Connections Humanities
- **C** in ENG 1023, Making Connections Humanities

The 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, World 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 4001, Studies in Art History
ART 4432, Renaissance Art History
ART 4443, Modern Art History
ART 4501, Early Christianity through Gothic Art History
ART 4511, History of Western Art
ARTH 4633, Non-Western Art History
ECON 4103, International Trade
ENG 3453, World Literature
ENG 3813, Introduction to Folklore
ENG 4113, Game Studies
FIN 3013, International Financial Mgmt and Banking

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

2015-2016
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, magnetic resonance imaging (MRI), 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) (3343 Peachtree Rd NE, Suite 500, Atlanta, GA 30326; (404) 975-5000; www.nlnac.org). 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, 773-714-8890. 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 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 (JRCE) (241 N. Wacker Dr., Suite 900, Chicago, IL 60606-2901). Graduates are eligible to sit for the national certifying examination of the American Registry of Radiologic Technologists. The Nuclear Medicine Program is accredited by the Joint Review Committee on Education in Nuclear Medicine Technology. The Diagnostic Medical Sonography Program is accredited by the Joint Review Committee for Education in Diagnostic Medical Sonography.


Most state and national board application forms ask if the applicant has ever been convicted of a crime. Certain crimes (e.g., controlled substance use or sale) may make the applicant ineligible for the examination. If a student has any reason to believe that he/she may be ineligible for the state or national board examinations, he/she should discuss this with the program director or the respective licensing agency.

Application Policies and Procedures

Admission to Arkansas State University does not automatically admit one to the 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 972-3091; Communication Disorders 972-3106; Social Work 972-3884). Courses in clinical laboratory sciences, physical therapist assistant, radiologic sciences, radiologic technology, and nursing (with the exception of NRS 2223, NRS 3353, NRS 3333, NRS 4393, NRS 2392 and NRP 2391), 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 preclinical laboratory scientist major.

Clinical Laboratory Sciences - Associate of 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 preclinical laboratory technician major.

Communication Disorders - Bachelor of Science: No deadlines. Admissions to the undergraduate communication disorders program requires the following: 3.1 or better GPA for BIO 2223 and 2201, PSY 2013, CD 2853, 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, prescriptive observation; a speech and hearing screening; and a minimum of 30 hours of earned academic credit.

Associate of Applied Science in Nursing: June 15 for admission to the Fall semester for LPN to RN students. Prior to this time, the student is enrolled in the clinical laboratory science program as a preclinical laboratory scientist major.

Bachelor of Science in Nursing: June 15 for Fall enrollment for associate degree programs. Prior to this time, the student is enrolled in the clinical laboratory science program as a preclinical laboratory technician major.

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

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

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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 Doctor of Physical Therapy degree (DPT). Deadlines for application can be obtained by contacting the program office at (870) 972-3591.

Physical Therapist Assistant - Associate of 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 of 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: May 15 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.

Radiology Management – Bachelor of Science in Radiologic Sciences: Admits each semester or Summer Session. Students entering this major must be registered by the American Registry of Radiologic Technologists in one of the primary professions or registry eligible. Interested students should see the Chair of the Department of Medical Imaging and Radiation Sciences.

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 2.75 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 titers (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 documented 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.

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
Criminal Background Checks and Drug Testing
Some of the clinical agencies used by the programs in the College of Nursing and Health Professions require criminal background checks and/or drug testing prior to placement for assigned practicums. Information for obtaining the background check and drug testing is provided by the program. Costs are to be borne by the student.

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. Any radiologic science program if a grade of lower than a "C" is received in any degree course.
D. associate degree nursing program if a grade lower than "C" is received in a required nursing course, if the student withdraws from a nursing course to avoid a failing grade or if the GPA is less than 2.00 in the required support courses upon entry to the last semester of the program.
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. (2.75 for social work student)
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".)
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." Students are required to pass a standardized readmission exam based on previous successful course work.
   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.

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
School of Nursing

Associate Professor Sue McLarty, Chair; Professors Skooga, Young; Associate Professors Gilbert-Palmer, Hall, Isaacson, Persell, Stacy; Assistant Professors Anderson, Baker, Blue, Campbell, Clay-Coo per (Beebe), Clement, Crane (Mountain Home), Fuller (Mountain Home), Matthews, R. Miller, Nix, Pfriemer, Schafer (West Memphis), Schmidt, Sifford, Smith (Beebe), Simmons (Beebe), Travell, Walden, Wiggs, Wilke (Mountain Home), Wilcox, Wimerbery

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 fundamental: 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 individually 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 of 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 OF 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 baccalaureate level is a professional who has acquired a well-defined 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. The 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 2392, and NRS 2391). 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 (972-2074) 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.
Nursing

Associate of Applied Science in Nursing
Beebe, Mountain Home, and West Memphis

A. The following thirteen hours must be completed prior to acceptance into the program with a "C" or better:

- BIO 2203 AND 2211, Human Anatomy and Physiology I and Laboratory 4
- CHEM 1013 and CHEM 1011, General Chemistry I 4
- MATH 1023, College Algebra (or higher level math) 4
- OR

B. The following courses must be completed with a "C" or better prior to taking MATH 1023, Nursing I and NRSP 1243, Clinical Procedures I:

- BOC 2223 AND 2221, Anatomy and Physiology II and Laboratory 4
- CHEM 1023, Microcomputer Applications 3
- NRS 2313, Health Assessment 3
- NRS 2323, Health Assessment Practicum 3

C. The following courses must be completed with a "C" or better prior to taking MRS 2232, Nursing II Maternal Child and MRS 2213, Nursing II Medical Surgical and NRSP 2244, Clinical Procedures III:

- BOC 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory 4
- MATH 1013, Composition II (must have a "C" or better) 3

D. The following must be completed prior to graduation:

- HIST 2763 OR HIST 2773, U.S. History or POSC 2103, Introduction to United States Government 3

E. A minimum grade of "C" is required in all nursing courses for progression:

- NRSP 2343, Nursing Care II 3
- NRSP 2351, Retairing and Emergency Nursing 3
- NRSP 2356, Nursing Care IV 3
- NRSP 4326, Nursing Care V 3
- NRSP 4336, Nursing Care VI 3
- MATH 1023, College Algebra 4

F. A minimum grade of "C" in all required courses for an Associate of Applied Science in Nursing degree is required for progression:

- MATH 1023, College Algebra 4

G. A CNA certification from Arkansas Office of Long Term Care

Associate of 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 courses with a "C" or better:

- BIO 2203 AND 2211, Human Anatomy and Physiology I and Laboratory 4
- CHEM 1013 and CHEM 1011, General Chemistry I 4
- MATH 1023, College Algebra (or higher level math course) 4
- NRSP 2200, Health Assessment 3
- NRSP 2391, Health Assessment Practicum 2
- PSY 2013, Introduction to Psychology 3

B. The following courses must be completed prior to MRS 2232 and NRSP 2244 with a "C" or better:

- BIO 2103 AND 2101, Microbiology for Nursing and Allied Health and Laboratory 4
- MATH 1013, Composition II (grade of "C" or better) 3

C. The following course must be completed prior to graduation with a "C" or better:

- HIST 2763 OR HIST 2773, U.S. History or POSC 2103, Introduction to United States Government 3

D. A minimum grade of "C" is required in all nursing courses for progression:

- MATH 1023, College Algebra 4

E. A minimum grade of "C" in all required courses for an Associate of Applied Science in Nursing degree is required for progression:

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
University Requirements:

- NRSP 4466, Clinical Experience VI: 6
- NRSP 3453, Clinical Experience III: 3
- NRSP 2432, Clinical Experience I: 2
- NRS 4543, Health Care Administration: 3
- NRS 4443, Essentials of High Acuity Nursing: 3
- NRS 4425, Essentials of Medical-Surgical Nursing III: 5
- NRS 3445, Essentials of Medical-Surgical Nursing II: 5
- NRS 4427, Professional Role Development: 2
- NRS 4426, Essentials of Medical-Surgical Nursing II: 5
- NRS 4443, Essentials of High Acuity Nursing: 3
- NRS 4543, Health Care Administration: 3
- NSRP 4421, Foundations of Nursing Practice: 3
- NSRP 4422, Clinical Experience I: 6
- NSRP 4431, Clinical Experience II: 6
- NSRP 4446, Clinical Experience VI: 6

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/.

Admission Requirements:

1. Earned Bachelor Degree
2. Overall GPA of 2.3
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 3023 AND 2021, Human Anatomy/Physiology I and Laboratory
   c. ENG 1003 AND 1013, Composition I and II
   d. PSY 2013, Introduction to Psychology
   e. SOC 2213, Principles of Sociology
   f. MATH 1023, College Algebra or Higher Math Course
   g. CHEM 1043, General Chemistry I

Recommended General Education Credits: 35

ENG 1003, Composition I
ENG 1013, Composition II
MAT 1023, College Algebra or Higher Math Course

Major Requirements:

- MRS 2423, Introduction to Essentials of Nursing: 3
- MRS 2433, Essentials of Medical-Surgical Nursing: 3
- MRS 3443, Medical-Surgical Nursing II: 5
- MRS 4425, Professional Role Development: 2
- MRS 4426, Essentials of Medical-Surgical Nursing II: 5
- MRS 4443, Essentials of High Acuity Nursing: 3

RN-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 in Arkansas
2. Overall GPA of 2.3
3. Current CPR certification
4. Acceptable immunization status
5. Completion of all core science and mathematics courses required for a baccalaureate degree in nursing with a "C" or better in each course.
6. Completion of required support courses.

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 2213 AND 2211, Human Anatomy/Physiology II and Laboratory: 4
- CHEM 1043 AND 1041, Fundamental Concepts of Chemistry and Laboratory: 4
- ENG 1003 AND 1013, Composition I and II: 3
- ENG 1013, Composition II: 3
- MAT 1023, College Algebra or Higher Math Course: 3
- MATH 1043, Calculus I: 4
- HIST 2763, HIST 2773, United States History I or II: 3

Recommended General Education Credits: 35

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 in Arkansas
2. Overall GPA of 2.3
3. Current CPR certification
4. Acceptable immunization status
5. Completion of all core science and mathematics courses required for a baccalaureate degree in nursing with a "C" or better in each course.
6. Completion of required support courses.

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 2213 AND 2211, Human Anatomy/Physiology II and Laboratory: 4
- CHEM 1043 AND 1041, Fundamental Concepts of Chemistry and Laboratory: 4
- ENG 1003 AND 1013, Composition I and II: 3
- ENG 1013, Composition II: 3
- MAT 1023, College Algebra or Higher Math Course: 3
- MATH 1043, Calculus I: 4
- HIST 2763, HIST 2773, United States History I or II: 3

Recommended General Education Credits: 35

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:

- A portfolio must contain the following documentation:
  1. Work Experience
  2. Continuing Education
  3. Certifications
  4. Other items which support clinical competency

Admission Requirements:

1. Current unencumbered registered nurse license
2. 1,000 hours of recent work experience as an RN prior to enrollment in 4000 level nursing courses.
3. Overall GPA of 2.3
4. Completion of all required English, Science and Math courses with a "C" or better in each course.

Note: Students meeting the above requirements will be admitted on clinical space availability.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
Prior to taking the 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

Required Support Courses prior to Senior Level:

- NRS 3512, Nursing Research (3)
- NRS 2022, Health Assessment (2)
- NRS 2391, Health Assessment Practice (1)

Senior Level:

- Theory Courses:
  - NRS 4403, Prin of Dis and Emergency Preparedness (3)
  - NRS 4513, Physical Care of Victims of Chemical, Biological, Radiological and Nuclear Disasters (2)
  - NRS 4531, Risk Identification and Prevention in Disaster and Emergency Preparedness (3)
  - NRS 4533, Evidence-Based Practice — Operations and Management (3)
  - SW 4303, Crisis Intervention (3)
- Clinical Courses:
  - NRS 4793, RN-BSN Capstone Course (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 4403, Capstone in Homeland Security and Disaster Preparedness (3)
- NRS 4503, Prin of Disaster and Emergency Preparedness (3)
- NRS 4533, Evidence-Based Practice — Operations and Management (3)
- NRS 4793, RN-BSN Capstone Course (3)

Department of Clinical Laboratory Sciences

Assistant Professors Payne, Bednar;

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 of 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 Scientists 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.clt.astate.edu/cls/.

Major in Clinical Laboratory Sciences

Associate of Applied Science

General Education Requirements:

Sem. Hrs.

- *CHEM 1013 AND 1011, General Chemistry I and Laboratory (4)
- CIS 1013, Introduction to Computers, OR CIS 1013, Microcomputer Applications (3)
- EPSC 1003 AND 1013, Composition I and II (6)
- HIST 2103 OR 2103, U.S. History To or Since 1876; OR PSYC 2103, Introduction to U.S. Government (3)
- MATH 1013, 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 2213 AND 2211, Microbiology for Nursing and Allied Health Laboratory (4)
- CIS 2223 AND 2221, Human Anatomy and Physiology I and Laboratory (4)
- CLS 1011 AND 1011, Basic Principles and Laboratory (3)
- CLS 1013 AND 1011, Clinical Practice I and Laboratory (3)
- CLS 1014, Clinical Practice I (4)
- CLS 2053 AND 2051, Medical Microbiology I and Laboratory (4)
- CLS 2543 AND 2541, Clinical Chemistry I and Laboratory (4)
- CLS 2551, Hematology-Diagnosis by the Clinical Lab Technician (3)
- CLS 2561, Hematology-Indicators (3)
- CLS 2571, Clinical Immunology and Laboratory (4)
- CLS 2581 AND 2581, Medical Microbiology and Laboratory (4)
- CLS 3514, Clinical Practice III (4)
- CLS 3524, Clinical Practice IV (4)

TOTAL 53

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.
University Requirements:

First Year Making Connections Course (or equivalent)
HIST 2763, HIST 2773 OR PSYC 2103
At least one of the core courses in the General Education Core Courses
'C' in ENG 1003 and ENG 1013
'C' in MATH 1023 by BB
45 Upper Level AFTER 32 HOURS
12 Earned Credit Hours
32 Residence Hours
55 Hours with Accrual Senior Institutions
2.00 GPA in ASU coursework and major coursework
31 Hour Maximum Correspondence, CLEP, Advanced Placement, Etc.

*ASU Minimum

First Year Making Connections Course
Sem. Hrs.
CLS 1003, Making Connections CLS
1

General Education Requirements:

Refer to index for General Education Curriculum for Baccalaureate Degrees

Specific General Education Requirements:

Students with this major must take the following:

BIO 2220 AND 2231, Human Anatomy and Physiology II and Laboratory
4
CHEM 2323 AND 2331, General Chemistry II and Laboratory
4
CHEM 3123 AND 3131, Organic Chemistry I and Laboratory
4
HIST 2763, HIST 2773 OR PSYC 2103
3
HIST 2773 OR PSYC 2103
3
CLS 1012 AND 1014, General Psychology and Laboratory
2

Major Requirements:

Sem. Hrs.
BIO 2220 AND 2231, Human Anatomy and Physiology II and Laboratory
4
CHEM 2323 AND 2331, General Chemistry II and Laboratory
4
CHEM 2323 AND 2331, General Chemistry II and Laboratory
4
HIST 2763, HIST 2773 OR PSYC 2103
3
HIST 2773 OR PSYC 2103
3
CLS 1012 AND 1014, General Psychology and Laboratory
2

Total
138-140

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
Major Requirements: Sem. Hrs.

* CD 2104, Anatomy and Physiology of Speech ................................................................. 4
  * CD 2303, Phonetics .......................................................... ............................................. 3
  * CD 2101, Speech and Hearing Science .......................................................... ............... 3
  * CD 3453, Normal Language Development .......................................................... ........ 3
  * CD 3423, Intro to Manual Communications .......................................................... ....... 2
  * CD 2503, Audiology .......................................................... ............................................ 3
  * CD 3103, Clinical Management Techniques in CD ................................................... 3
  * CD 3803, Service Delivery in Communication Disorders ........................................ 3
  * CD 4203, Organic Speech Disorders .......................................................... .................. 3
  * CD 4354, Neurological Bases and Disorders of Human Communication ................. 4
  * CD 4353, Language Intervention for Individuals with Mild Disabilities ................. 3
  * CD 4453, Aural Rehabilitation ................................................................................. 1
  * CD 4751, Clinical Practice I ..................................................................................... 1
  * CD 4151, Clinical Practice II ................................................................................... 1
  * CD 4261, Introduction to Adult Communication Disorders ..................................... 1
  * CD 2203, Phonetics .............................................................................................. 3
  * CD 3803, Service Delivery in Communication Disorders ........................................... 3
  * CD 4254, Neurological Bases and Disorders of Human Communication ................. 4
  * CD 4203, Organic Speech Disorders .......................................................... .................. 3
  * CD 4354, Neurological Bases and Disorders of Human Communication ................. 4
  * CD 4353, Language Intervention for Individuals with Mild Disabilities ................. 3
  * CD 4453, Aural Rehabilitation ................................................................................. 1
  * CD 4751, Clinical Practice I ..................................................................................... 1
  * CD 4151, Clinical Practice II ................................................................................... 1
  * CD 4261, Introduction to Adult Communication Disorders ..................................... 1
  * CD 2203, Phonetics .............................................................................................. 3
  * CD 3803, Service Delivery in Communication Disorders ........................................... 3

Electives: ................................................................................................................................. 6

* These courses must be completed in conjunction with PSY 2103 and GSP 1203 with a 3.0 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. ENGL 1003 Composition I
   b. ENGL 1013 Composition II
   c. ART 2201, Fine Arts
   d. CD 2203, Phonetics
   e. CD 2104, Anatomy and Physiology of Speech
   f. CD 2503, Audiology
   g. CD 3103, Clinical Management Techniques in CD
3. An average GPA of 3.0 or higher in the following:
   a. CD 3453, Normal Language Development
   b. CD 2104, Anatomy and Physiology of Speech
   c. CD 2303, Phonetics
   d. CD 3203, Audiology
   e. CD 3803, Service Delivery in Communication Disorders
   f. CD 4203, Organic Speech Disorders
   g. CD 4354, Neurological Bases and Disorders of Human Communication
   h. CD 4353, Language Intervention for Individuals with Mild Disabilities
   i. CD 4453, Aural Rehabilitation
   j. CD 4751, Clinical Practice I
   k. CD 4151, Clinical Practice II
   l. CD 4261, Introduction to Adult Communication Disorders
   m. CD 2203, Phonetics
4. 10 clock hours of documented information
5. Speech and hearing screening

TOTAL 124-126

CLASS OPTIONS

1. Social Sciences
   Two of the following courses must be completed
   1. PSYC 2153, Psychological Foundations of Behavior
   2. PSYC 2763, Human Development and Behavior
   3. PSYC 2773, Introduction to Psychology
   4. PSOC 2103, Intro to American Government
   5. SOCI 2103, Introduction to Sociology

2. Life Sciences
   Students must complete three courses from this section
   1. ANTH 2201, Introduction to Anthropology
   2. BIO 1013, Introduction to Biology
   3. CHEM 1013, Introduction to Chemistry
   4. PHYS 1101, Introduction to Physics
   5. PHYS 2034, University Physics I (Multimedia)
   6. PHYS 2044, University Physics II (Multimedia)
   7. PHYS 2054, General Physics I
   8. PHYS 2103, General Physics II
   9. PHYS 2503, General Physics III

3. Arts and Humanities
   Students must complete three courses from the section
   1. ART 2503, Fine Arts Visual
   2. ENG 2003, Intro to Literature of the Western World I
   3. ENG 2013, Intro to Literature of the Western World II
   4. THEA 2503, Fine Arts Theatre
   5. THEA 2504, Fine Arts Musical
   6. MUS 2503, Fine Arts Musical

4. Writing
   One of the following courses must be completed
   1. ENGL 2043, Technical Writing
   2. ENGL 2053, Technical Writing
   3. ENGL 2063, Technical Writing

5. Understanding Global Issues
   One of the following courses must be completed
   1. HIST 2763, The United States to 1876
   2. HIST 2773, The United States since 1876
   3. POSC 2103, Intro to American Government
   4. SOC 2103, Introduction to Sociology

6. Psychology and Learning
   Two of the following courses must be completed
   1. PSY 3433, Personality Psychology
   2. PSY 3434, Cognitive Psychology
   3. PSY 3435, Developmental Psychology
   4. PSY 3436, Learning Processes

7. Aging
   One of the following courses must be completed
   1. NURS 3353, Aging in Communication
   2. NURS 3353, Aging and the Older Adult

8. Statistics
   One of the following courses must be completed
   1. STAT 3223, Applied Statistics
   2. STAT 3224, Applied Statistics
   3. STAT 3225, Applied Statistics
   4. STAT 3233, Statistical Methods
   5. STAT 3381, Statistical Analysis

9. Counseling
   One of the following courses must be completed
   1. CD 4403, Seminar in Health Communication
   2. CD 4404, Seminar in Health Communication

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Department of Medical Imaging and Radiation Sciences

Associate Professors Caldwell, Rolins, White, Winters; Assistant Professors Hubbard, DuBois, Banyon; Instructor Wooten, Manning.

The Radiologic Sciences Programs are administered by the Department of Medical Imaging and Radiation Sciences in the College of Nursing and Health Professions. The degrees are designed to produce associate and baccalaureate degree Radiologic Science professionals who are clinically competent, advanced level radiologic sciences practitioners.

RADIOLOGIC TECHNOLOGY: The Associate Degree 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. Others are employed as technical advisors and representatives for radiologic equipment and supply manufacturers. The associate degree program may be articulated into any of the BSRS programs.

RADIOLOGIC SCIENCES: The Bachelor of Science in Radiologic Sciences Programs offer the radiologic professional the baccalaureate degree in 6 majors. These majors are 1) Imaging Specialist, 2) Radiation Therapy, 3) Diagnostic Medical Sonography, 4) Nuclear Medicine Technology, 5) Magnetic Resonance Imaging and 6) Radiology Management.

The Imaging Specialist Major 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, Diagnostic Imaging, 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 Major provides the student with the skills necessary to become a professional, entry level radiation therapist.

The Diagnostic Medical Sonography Major provides the student with the skills necessary to become a professional medical sonographer.

The Nuclear Medicine Technology Major provides the student with the skills necessary to become a professional nuclear medicine technologist.

The Magnetic Resonance Imaging Major provides the student with the skills necessary to become a professional MR Technologist.

The Radiology Management Major provides the student with the background knowledge and skills necessary to become a director of a radiology department in a hospital or imaging center.

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The AAS in Radiologic Technology Major

The AAS degree requires the following total credit hours:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RAD 1211 Radiation Physics</td>
<td>2</td>
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<tr>
<td>RT 1202 Basic Radiologic Procedures</td>
<td>2</td>
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<tr>
<td>RT 1211 Radiologic Procedures</td>
<td>2</td>
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<tr>
<td>RT 1212 Radiologic Procedures Laboratory</td>
<td>1</td>
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<td>RT 1213 Radiation Therapy</td>
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<td>PSY 1013</td>
<td>3</td>
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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 accepted 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 classroom and the clinical setting. Class room work will occur on the ASU-Jonesboro campus, while clinical education will occur in area hospitals and clinics. The professional portion of the program is offered as a full-time course. Upon graduation, students are eligible for the national credentialing American Registry of Radiologic Technologists examination in radiography.

Applicants to the Radiologic Technology Program are selected by the Admissions Committee using the following criteria:
1. Cumulative grade point average
2. Support course GPA (see application package)
3. Essay Score
4. Reference evaluations

Each of the 4 categories listed is translated to a scaled system of points. Once scaled, students are ranked accordingly. The top 60 will be asked for an interview. Note: Students completing support course work on the ASU Jonesboro campus will be awarded 5 points toward the final score.

AAS Degree Radiologic Technology Emphasis ............................................. Sem. Hrs.
General Education Requirements: ................................................................. 19
Refer to index for General Education Curriculum for A.A.S. Degrees ............... 19

The following courses are required following admission to the professional program:
1st Summer I
RT 1201 Radiation Physics ........................................................................2
RT 1202 Basic Radiologic Procedures .......................................................3
RT 1211 Radiologic Procedures Laboratory ...............................................1
PSY 1013 Basic Radiologic Procedures Laboratory ................................... 1

The following courses are required following admission to the professional program:
1st Summer II
RT 1201 Radiation Physics ........................................................................2
RT 1202 Basic Radiologic Procedures .......................................................3
RT 1211 Radiologic Procedures Laboratory ...............................................1

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The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)
Major Requirements:

RS 3133, Sectional Anatomy ..................................................................................................................................................3
RS 4112, Radiologic Research Analysis .................................................................................................................................2
RS 4342, Radiologic Administrative Concepts ....................................................................................................................3
RS 4102 Introduction to Ultrasound ........................................................................................................................................2
RSU 4112 Sectional Anatomy: Sonography ...........................................................................................................................2
RSU 4223 Ultrasound, Sonography Lab ..................................................3
RSU 4219 Physics & Instrumentation I .................................................3
RSU 4219 Ultrasound Clinical I .............................................................2
RSU 4223 Ultrasound, Sonography Lab ................................................3
RSU 4222 Abdominal Sonography ........................................................3
RSU 4313 OB Sonography ....................................................................3
RSU 4322 OB/Gyn Sono Lab .................................................................2
RSU 4325 OB/Gyn Ultrasound II .........................................................3
RSU 4453 US Clinical IV ......................................................................3
RSU 4544 US Clinical III .....................................................................4
RSU 4544 US Clinical IV .....................................................................4
RSU 4451 Vascular Sonography ..........................................................2
RSU 4452 Vascular Sono Lab ...............................................................2
RSU 4503 Ultrasound Clinical V ........................................................3
RSU 4501 Clinical Relevancy ...............................................................2

Major Total 54

Degree Total 160-161

Admission Requirements for BSRS Degree Diagnostic Medical Sonography Major

Selection into the program is based on:

1. Cumulative grade point average
2. Selected course grades
3. Interview
4. Personal essay completed at time of orientation session

The above criteria are converted to a point system. Selection preference is given to those who meet the following requirements:

Certificate in Cardiac Sonography

(Previous Healthcare Track)

The Cardiac Sonography Program is seeking accreditation 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 cardiac sonography. The Healthcare track is designed for applicants who have a bachelor's degree and have no prior experience in the healthcare setting. Upon completion of the cardiology sonography certificate, students are prepared to sit for the American Registry of Diagnostic Medical Sonographers (ARDMS) examinations in sonography principles & instrumentation and Adult Echocardiography.

Specific General Education Requirements: Sem. Hrs.

SCOM 1203 Speech Communications .................................................................3
PHIL 1003 Intro to Philosophy ...........................................................................3
PHIL 1004 Legal & Practical Reasoning ..............................................................3
SCOM 1203 Speech Communications .................................................................3
PHYS 2133 Survey of Physics for Health Professionals OR Higher level physics .........................................................3-4
BIOL 2203 & BIO 2201 Human Anatomy & Physiology I and Lab. ..................4
BIOL 2202 & BIO 2201 Human Anatomy & Physiology II and Lab. .................4

Total: 23-24

Major Requirements:

RS 3102 Legal & Regulatory Environment of Radiology ........................................2
RS 3133 Sectional Anatomy ................................................................................3
RS 4112 Radiologic Research Analysis ............................................................2
RS 4342 Radiologic Administrative Concepts ................................................3
RS 4102 Introduction to Ultrasound ..................................................................2
RSU 4112 Sectional Anatomy: Sonography .......................................................2
RSU 4219 Physics & Instrumentation I .............................................................3
RSU 4222 Abdominal Sonography ....................................................................3
RSU 4219 Physics & Instrumentation I .............................................................3
RSU 4219 Ultrasound Clinical I .........................................................................2
RSU 4812 Introduction to Cardiac Conduction & Arrhythmias ..........................2
RSU 4223 Ultrasound, Sonography Lab ...........................................................3
RSU 4742 Competency Sonography Lab II .....................................................4

Major Total 59

Certificate Total 59-60

Certificate Total 47-48

Certificate Total 52-53

Certificate Total 47-48

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### Electives 18-19

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<td>RSMR 4823</td>
<td>Data Acquisition &amp; Processing</td>
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<td>MRI Physical Principles II</td>
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### Previous Healthcare Education:

- Radiation Technology Education or Other Healthcare: 28-50

### Major Requirements:

- General Education Curriculum for Baccalaureate Degrees: 43-44

### Admission Requirements for BSRS Degree Magnetic Resonance Imaging

Selection into the program is based on:
1. Acceptable health care degree
2. Cumulative grade point average
3. Selected course grades
4. Interview
5. References

The above criteria are converted to a point system. Selection preference is given to those who are near successful completion of the General Education Curriculum and Major Requirements other than those identified with RS or RSMM prefixes. Registered Radiologic Technologists receive extra points when calculating total scores.

**Admission Requirements for BSRS Degree Magnetic Resonance Imaging**

The Nuclear Medicine Technology program is a joint accreditation arrangement between ASU and Methodist Healthcare of Memphis and Baptist Healthcare in Lubbock, Texas, accredited by the Joint Review Committee on Education in Nuclear Medicine (JRCERT). To complete the major in this area, students must complete the 31 hours of the program. Specific (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 be a graduate of a JRCERT program in radiologic technology.

**BSRS with a Major in Nuclear Medicine Technology**

**Admission Requirements for BSRS Degree Nuclear Medicine Technology**

The Nuclear Medicine Technology program is a joint accreditation arrangement between ASU and Methodist Healthcare of Memphis and Baptist Healthcare in Lubbock, Texas, accredited by the Joint Review Committee on Education in Nuclear Medicine (JRCERT). To complete the major in this area, students must complete the 31 hours of the program. Specific (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 be a graduate of a JRCERT program in radiologic technology.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
BSRS with a Major in Radiology Management

Admission Requirements for the Radiology Management Major

To be admitted to the BSRS Management Major, students must meet all of the following requirements:

1. Completion of a Joint Review Committee on Education in Radiologic Technology (JRCERT) accredited Associate Degree Program in Radiologic Technology.
2. Successful performance on 6 semester hours of the BSRS Program.
3. Successful academic performance on 6 semester hours of the BSRS Program.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
Department of Social Work

Associate Professor and Chair of Social Work: Turnage; Associate Professors Bhattacharya, Brewer, Freer, Jacinto, Watts; Assistant Professors Edwards, Hong, Rahill, Watts; Instructors Fullen, Holt, Nash, Ryan, Wilson; 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)


University Requirements:

First Year Making Connections Course (or equivalent) 3
SOC 2213, Principles of Sociology 3
PSY 2013, Introduction to Psychology 3
SW 1203, Making Connections Social Work 3

SOC 3381, Social Statistical Methods Laboratory 3
SW 3303, Human Behavior in Social Environment I 3
SW 3313, Child Welfare 3
SW 3323, Substance Abuse 3
SW 3343, Child Abuse and Neglect 3
SW 4383/CRIM 4383/SOC 4383, Child Welfare and the Law (Capstone Courses) 3

OR

HIST 2763, HIST 2773

Below 124 Earned Credit Hours *

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 Bachelor of Social Work program. Details of application are found in the Bachelor of Social Work Student 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 2.75 overall and a 2.75 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.

Minor in Children's Advocacy Studies

Sem. Hrs.
SOC 4073, Sociology of Family Violence 3
SW 3313, Substance Abuse 3
SW 4213, Introduction to Domestic Violence 3

Select One of the Following: 3
SOC 4013, The Sociology of Childhood and Adolescence
SW 3313, Human Behavior and the Social Environment I

Select One of the Following: 3
CRIM 2253, Criminal Investigation
CRIM 2253, Criminal Evidence and Procedure

TOTAL 21

Student 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 2.75 overall and a 2.75 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.

Minor in Children’s Advocacy Studies

Sem. Hrs.
SOC 4073, Sociology of Family Violence 3
SW 3313, Substance Abuse 3
SW 4213, Introduction to Domestic Violence 3

Select One of the Following: 3
SOC 4013, The Sociology of Childhood and Adolescence
SW 3313, Human Behavior and the Social Environment I

Select One of the Following: 3
CRIM 2253, Criminal Investigation
CRIM 2253, Criminal Evidence and Procedure

TOTAL 21

University Requirements:

First Year Making Connections Course (or equivalent) 3
SOC 2213, Principles of Sociology 3
PSY 2013, Introduction to Psychology 3
SW 1203, Making Connections Social Work 3

SOC 3381, Social Statistical Methods Laboratory 3
SW 3303, Human Behavior in Social Environment I 3
SW 3313, Child Welfare 3
SW 3323, Substance Abuse 3
SW 3343, Child Abuse and Neglect 3
SW 4383/CRIM 4383/SOC 4383, Child Welfare and the Law (Capstone Courses) 3

OR

HIST 2763, HIST 2773

Below 124 Earned Credit Hours *

Students choosing language must complete all 12 hours in the sequence.
The College of Sciences & Mathematics
Dr. Andy Novobilski, 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 two interdisciplinary doctoral degree (Ph.D.) programs in Environmental Sciences and Molecular Biosciences. For further information, see A.S.U.’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

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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
Department of Biological Sciences

Associate Professor Thomas Risch, Interim Chair; Professors Bednarz, Buchanan, Cramer, Farris, R. Grippo, Hood, Johnson, Trauth; Associate Professors Bennett, A. Grippo, Huss, McKay, Medina-Bolivar, Risch, Svatvans; Assistant Professors, Gilmore, Marsico, Sikkel,Zhou; Instructors Harding, Huggins, Parr

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 health professions, 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 lecture courses having an associated laboratory course, both lecture and laboratory courses must be passed before credit for graduation 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/bulletin.php

University Requirements:

First Year Making Connections Course (or equivalent)

HIST 2703, HIST 2773 OR POSC 2103

At least one 160-hour course in the General Education Core Courses

"C" in ENG 1003 and ENG 1013

"C" in MATH 1023 for ISE

45 Upper Level After 35 Hours *

64 Earned Credit Hours

18 of the Last 24 Hours at ASU *

57 Hours with Accredited Senior Institutions *

2-20 in ASU coursework and Major coursework

31 Hour Minimum Correspondence, CLEP, Advanced Placement, etc.

*ASU Minimum

First Year Making Connections Course

Sem. Hrs.

BIOL 1013, Making Connections Biology .......................... 3

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees. .......................... 44-45

Specific General Education Requirements:

Students with this major must take the following:

BIOL 1013 AND 1003, Biology of Animals and Laboratory .......................... 4

CHEM 1013 AND 1023, General Chemistry I and Laboratory .......................... 4

CHEM 2104, Principles of Ecology ........................................ 3

BIOL 2503, Evolution ........................................ 3

BIOL 4104, Microbiology ........................................ 4

CHEM 3101 AND 3103, General Chemistry II and Laboratory .......................... 4

MATH 1313, Survey of Calculus ........................................ 4

PHYS 2504, General Physics I ........................................ 4

PHYS 2504, General Physics II ........................................ 4

Biology Electives (2000 level or above) ........................................ 6-8

General Education Requirements:

Sem. Hrs.

Refer to index for General Education Curriculum for Baccalaureate Degrees. .......................... 44-45

Specific General Education Requirements:

Students with this major must take the following:

CHEM 1013 AND 1023, General Chemistry I and Laboratory .......................... 4

CHEM 2104, Principles of Ecology ........................................ 3

CHEM 4104, Microbiology ........................................ 4

CHEM 3101 AND 3103, General Chemistry II and Laboratory .......................... 4

MATH 1313, Survey of Calculus ........................................ 4

PHYS 2504, General Physics I ........................................ 4

PHYS 2504, General Physics II ........................................ 4

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
Emphasis Area: (Select one of the five options):

**Biology:**
- BI 3302 AND 3312: Comparative Anatomy and Laboratory
- BI 3313 AND 3311: General Entomology and Laboratory
- BI 3322 AND 3321: Invertebrate Zoology and Laboratory

**Botany:**
- BI 4012 AND 4011: Botany I and Laboratory

**Environmental Biology:**
- BI 3302 AND 3301: Plant Taxonomy and Laboratory

**Pre-professional Studies:**
- BI 3302 AND 3312 AND 3311: Comparative Anatomy and Laboratory

**Zoology:**
- BI 3302 AND 3312: Comparative Anatomy and Laboratory

Electives:

**Bachelor of Science**

**Major in Wildlife Ecology and Management**


**University Requirements:**
- First Year: 2.00 in ASU Coursework
- Residency: At least one 2000-level course in General Education Core Courses
- *C* in ENG 1013 and ENG 1014
- *C* in MATH 1123 or MATH 1154 if Math ACT score less than 22
- 45 Lower Level Credits
- 21 Upper Level Credits

**General Education Requirements:**

**Bachelor of Science**

**First Year Making Connections Course**

**General Education Requirements:**

**Language Requirement:**

**Major Requirements:**

Minor in Biology

<table>
<thead>
<tr>
<th>Course Combination</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1303 AND 1301, Biology of Animals and Laboratory</td>
<td>8</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BIO 1503 AND 1501, Biology of Plants and Laboratory</td>
<td>8</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BIO 2013 AND 2011, Biology of the Cell and Laboratory*</td>
<td>11</td>
</tr>
<tr>
<td>Biology Electives (3 Junior/Senior Level Courses) with laboratory</td>
<td></td>
</tr>
<tr>
<td>TOTAL Min.</td>
<td>19</td>
</tr>
</tbody>
</table>

*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, Dockter, Draganic, Reeve, Sustich; Associate Professors Burns, Johnson, Kennon, Lawrence, Ontko, Panigot, Bin Zhang; Assistant Professors Ali, Earl Benjamin, Ellis Benjamin, Kozium, Warby, L. Zhang

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 pharmacology 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, salesmen, 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/](http://registrar.astate.edu/)

University Requirements:

First Year Making Connections Course (or equivalent)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2763, HIST 2773, or PSED 2103</td>
</tr>
</tbody>
</table>

At least one HIST course in the General Education Core Courses

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1003 or ENG 1013</td>
</tr>
</tbody>
</table>

' C' in ENG 1023 for BSE

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1023</td>
</tr>
</tbody>
</table>

AFTER 30 HOURS *

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>124 Earned Credit Hours *</td>
</tr>
</tbody>
</table>

18 of the Last 24 Hours at A-State *

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 Residencies Hours *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 in ASU Courses</td>
</tr>
</tbody>
</table>

57 Hours with Accredited Senior Institutions *

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 in ASU Courses</td>
</tr>
</tbody>
</table>

57 Hours with Accredited Senior Institutions *

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 in ASU Courses</td>
</tr>
</tbody>
</table>

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

ASU Minimum

First Year Making Connections Course

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1003, Making Connections Chemistry and Physics</td>
</tr>
</tbody>
</table>

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements:

Sem. Hrs.

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refer to index for General Education Curriculum for Baccalaureate Degrees</td>
</tr>
</tbody>
</table>

44-45

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

### Specific General Education Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language</td>
<td>0-6</td>
</tr>
</tbody>
</table>

### Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1013</td>
<td>General Chemistry I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1054</td>
<td>Precalculus Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2002</td>
<td>Computers in Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 2004</td>
<td>Descriptive Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3124</td>
<td>Physical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3101</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4271-2-3</td>
<td>Research in Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4224</td>
<td>Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4331</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4324</td>
<td>Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4235</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4271-2-3</td>
<td>Research in Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4281</td>
<td>Chemistry Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

### General Education Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>0-12</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>0-12</td>
</tr>
</tbody>
</table>

### Emphasis Area:

**Select one of the three options:**

<table>
<thead>
<tr>
<th>Area</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>8-10</td>
</tr>
<tr>
<td>Environmental</td>
<td>10-18</td>
</tr>
</tbody>
</table>

### Pre-professional Studies:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1003</td>
<td>Biology of the Cell and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1003</td>
<td>Biology of the Cell and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1003</td>
<td>Biology of the Cell and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4104</td>
<td>Microbiology</td>
<td>4</td>
</tr>
</tbody>
</table>

### Electives:

- At least 16 must be upper level

### Total:

- 124 Sem. Hrs.

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The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

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).................................................. 6
CHEM 1013 AND 1011, General Chemistry I and Laboratory .... 4
CHEM 1023 AND 1021, General Chemistry II and Laboratory 4

PHYS 2034, University Physics I ......................................................................................... 4
PHYS 2044, University Physics II......................................................................................... 4

CHEM 3103, Organic Chemistry I and Laboratory ............................................................... 4
CHEM 3113, Organic Chemistry II and Laboratory ............................................................. 4
CHEM 3133 AND 3131, Organic Chemistry I and Laboratory .............................................. 3
CHEM 3144, Survey of Physical Chemistry ................................................................. 3

PHYS 3133, Astronomy ....................................................................................................... 3
PHYS 3153, Mechanics ....................................................................................................... 3
PHYS 3253, Optics ............................................................................................................... 3
PHYS 4353, Mathematical Physics ..................................................................................... 3

MATH 2204, Calculus ........................................................................................................... 4
MATH 2214, Calculus ........................................................................................................... 4
MATH 2254, Calculus III .................................................................................................... 4

Additional General Requirements for Teacher Education:
THE 1011, Principles of Personal Health ................................................................................. 3
SCCM 1025, Oral Communication ....................................................................................... 3
TOTAL 3

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

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).................................................. 6
CHEM 1013 AND 1011, General Chemistry I and Laboratory .... 4
CHEM 1023 AND 1021, General Chemistry II and Laboratory 4

PHYS 2034, University Physics I ......................................................................................... 4
PHYS 2044, University Physics II......................................................................................... 4

CHEM 3103, Organic Chemistry I and Laboratory ............................................................... 4
CHEM 3113, Organic Chemistry II and Laboratory ............................................................. 4
CHEM 3133 AND 3131, Organic Chemistry I and Laboratory .............................................. 3
CHEM 3144, Survey of Physical Chemistry ................................................................. 3

PHYS 3133, Astronomy ....................................................................................................... 3
PHYS 3153, Mechanics ....................................................................................................... 3
PHYS 4353, Mathematical Physics ..................................................................................... 3

MATH 2204, Calculus ........................................................................................................... 4
MATH 2214, Calculus ........................................................................................................... 4
MATH 2254, Calculus III .................................................................................................... 4

Additional General Requirements for Teacher Education:
THE 1011, Principles of Personal Health ................................................................................. 3
SCCM 1025, Oral Communication ....................................................................................... 3
TOTAL 3

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

Sem. Hrs.

General Education Requirements:
Sem. Hrs.

First Year Making Connections Course
Sem. Hrs.

PHSC 1003, Making Connections Chemistry and Physics

Sem. Hrs.

Major Requirements:
Sem. Hrs.

Professional Education Requirements:
Sem. Hrs.

Additional General Requirements for Teacher Education:
Sem. Hrs.

Minor in Chemistry

Sem. Hrs.

Bachelor of Science in Forensic 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

Sem. Hrs.

Major in Forensic Science

Sem. Hrs.

Minor in Forensic Science

Sem. Hrs.

Specific General Education Requirements:
Students with this major must take the following:

CHEM 1013, General Chemistry I and Laboratory
CHEM 2014, Calculus I
PHYS 2034, University Physics I

Sem. Hrs.

Sem. Hrs.

Sem. Hrs.

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### General Degree Major Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1013</td>
<td>CHEM 2113, General Chemistry I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3103</td>
<td>CHEM 3101, Organic Chemistry I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3154</td>
<td>Survey of Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CRIM 2551</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 2631</td>
<td>Criminal Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 411V</td>
<td>Forensic Science Internship/Research</td>
<td>4-6</td>
</tr>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2064</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2054</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3233</td>
<td>Applied Statistics I</td>
<td>3</td>
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</table>

**BIO 2103 AND 2011, Biology of the Cell and Laboratory**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1021</td>
<td>CHEM 1021, General Chemistry II and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3103</td>
<td>CHEM 3101, Organic Chemistry II and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3113</td>
<td>CHEM 3111, Organic Chemistry II and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2194</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>CRIM 2551</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 2631</td>
<td>Criminal Evidence and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>FOSC 411V</td>
<td>Forensic Science Internship/Research</td>
<td>4-6</td>
</tr>
<tr>
<td>MATH 2201</td>
<td>Calculus I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2054</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2064</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3233</td>
<td>Applied Statistics I</td>
<td>3</td>
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</table>

**Electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 hours of 3000/4000 level elective courses in Forensic Science, Biological Science</td>
<td>32</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** 126-128

### Option Emphasis Area: (Select one of the three options)

**General Degree:**

- 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.

**TOTAL** 126-128

**Biology Emphasis:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 2203 AND 2201</td>
<td>Human Anatomy/Physiology I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 2203 AND 2201</td>
<td>Human Anatomy/Physiology II and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 2223 AND 2221</td>
<td>Human Structure and Function I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 2223 AND 2221</td>
<td>Human Structure and Function II and Laboratory</td>
<td>4</td>
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**Electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>20 hours of 3000/4000 level elective courses in Forensic Science or Biological Science</td>
<td>20</td>
<td></td>
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</table>

**TOTAL** 126-128

**Chemistry Emphasis:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3103 AND 3011</td>
<td>General Chemistry I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3103 AND 3011</td>
<td>General Chemistry II and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3103 AND 3011</td>
<td>General Chemistry III and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3103 AND 3011</td>
<td>General Chemistry IV and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2194</td>
<td>Survey of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>CRIM 2551</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 2631</td>
<td>Criminal Evidence and Procedure</td>
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<td>FOSC 411V</td>
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</tr>
<tr>
<td>MATH 2201</td>
<td>Calculus I and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2054</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2064</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3233</td>
<td>Applied Statistics I</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL** 126-128

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

Department of Computer Science
Associate Professor Jeff Jenness, Chair; Associate Professors Hammerand, Jiang, Su, Assistant Professor Huang; Instructors Burleson, Causey, Schirner

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 2783, HIST 2773 or POSC 2103
At least one HIST course in the General Education Core Courses
'G' in ENGL 1003 and ENGL 1013
'G' in MATH 1023
'G' in MATH 1054
45 Upper Level AFTER 30 HOURS
'G' Earned Credit Hours
18 of the Last 24 Hours at ASU
57 Hours with Accredited Senior Institutions
2.00 in ASU Coursework and Major Coursework
31 Hours Maximum Correspondence, CLEP, Advanced Placement, Etc.

First Year Making Connections Course
Sem. Hrs. 3
CS 1093, Making Connections Computer Science

General Education Requirements:
Sem. Hrs. 44-45
Choose the following:

Specific General Education Requirements:
- Students must take the following:
  MATH 1023
  CS 1093
  MATH 2183
  MATH 2204
  CS 1114

Language Requirement:
Sem. Hrs. 0-12
Choose the following:

Major Requirements:
Sem. Hrs.
- CS 2114, Concepts of Programming
- CS 2115, Structured Programming
- CS 2124, C++ and Fundamental Data Structures
- CS 3103, Algorithms and Advanced Data Structures
- CS 3113, Software Engineering
- CS 4113, Computer Networks
- CS 4513, Database Systems
- MATH 2183, Discrete Structure
- MATH 2204, Calculus I
- MATH 2214, Calculus II
- MATH 3254, Calculus III
- PHIL 3723, Ethics, and Society
- STAT 4453, Probability and Statistics I
- EE 3333, Digital Electronics I
- PHYS 2081, Fundamental Physics II and Laboratory, OR
- PHYS 2084, University Physics I

Electives:
Sem. Hrs. 12

TOTAL 124

Minor in Computer Science
Sem. Hrs. 18

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

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
Department of Mathematics and Statistics
Associate Professor Debra Ingram, Chair; Professors Miao, Paulsen; Associate Professors Hall, Melesse, Mitchell; Assistant Professors Ahn, Choi, Lambertus, Turino, Zhou. Instructors Gibson, Gore, Griffin, Manning, Woodbridge.

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/](http://registrar.astate.edu/)

### University Requirements:
- **First Year Making Connections Course (or equivalent)**
- **HIST 2763, The U.S. To 1876**
- **MATH 1093, Making Connections Mathematics**
- **PHYS 2034, University Physics I**
- **CS 2114, Structured Programming**
- **HIST 2773, Modern Era in United States Government**
- **PSY 2013, Introduction to Psychology**

### General Education Requirements:
- **Foreign Language (Refer to index for foreign language requirements)**
- **SCED 2514, Introduction to Secondary Teaching**
- **PHYS 2044, University Physics II**
- **STAT 4453, Probability and Statistics I**

### Major Requirements:
- **MATH 3254, Calculus III**
- **MATH 4403, Differential Equations**
- **MATH 3303, Modern Algebra I**
- **MATH 3323, Mathematics Modeling**
- **MATH 3343, College Geometry**
- **MATH 4463, Advanced Calculus I**
- **MATH 4453, Advanced Calculus II**
- **MATH 4454, Applied Statistics**
- **STAT 4453, Probability and Statistics I**

### Additional Departmental Requirements:
- **Computer Science Elective**
- **ENG 1003 and ENG 1013**

### Professional Education Requirements:
- **SCED 2914, Introduction to Secondary Teaching**
- **EDMA 4563, Methods and Materials for Teaching Mathematics in the Secondary School**
- **SCED 3515, Performance-Based Instructional Design**
- **SCED 4713, Educational Measurement with Computer Applications**
- **TWA 4626, Teaching Internship in the Secondary School**
- **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.**

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

### University Requirements:
- **HIST 2763, The U.S. To 1876**
- **MATH 1093, Making Connections Mathematics**
- **PHYS 2034, University Physics I**
- **CS 2114, Structured Programming**
- **HIST 2773, Modern Era in United States Government**
- **PSY 2013, Introduction to Psychology**

### General Education Requirements:
- **Foreign Language (Refer to index for foreign language requirements)**
- **SCED 2514, Introduction to Secondary Teaching**
- **PHYS 2044, University Physics II**
- **STAT 4453, Probability and Statistics I**

### Major Requirements:
- **MATH 3254, Calculus III**
- **MATH 4403, Differential Equations**
- **MATH 3303, Modern Algebra I**
- **MATH 3323, Mathematics Modeling**
- **MATH 3343, College Geometry**
- **MATH 4463, Advanced Calculus I**
- **MATH 4453, Advanced Calculus II**
- **MATH 4454, Applied Statistics**
- **STAT 4453, Probability and Statistics I**

### Additional Departmental Requirements:
- **Computer Science Elective**
- **ENG 1003 and ENG 1013**

### Professional Education Requirements:
- **SCED 2914, Introduction to Secondary Teaching**
- **EDMA 4563, Methods and Materials for Teaching Mathematics in the Secondary School**
- **SCED 3515, Performance-Based Instructional Design**
- **SCED 4713, Educational Measurement with Computer Applications**
- **TWA 4626, Teaching Internship in the Secondary School**

### Minor in Mathematics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 2204</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2214</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3254</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

Mathematics or Statistics Electives:

- MATH 3243
- MATH 3273
- MATH 3303
- MATH 3323
- MATH 4403
- MATH 4423
- MATH 4513
- MATH 4553
- MATH 4563
- STAT 4453
- STAT 4463

Total: 21 Semester Hours

### Minor in Statistics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2214</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3254</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3233</td>
<td>Applied Statistics I</td>
<td>3</td>
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<tr>
<td>STAT 4453</td>
<td>Probability and Statistics I</td>
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<td>STAT 4463</td>
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</tr>
<tr>
<td>STAT 4473</td>
<td>Applied Statistics II</td>
<td>3</td>
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</tbody>
</table>

Total: 20 Semester Hours
The International Center for English

Nick Taggart, TICE Director

English as a Second Language Program

The International Center for English at Arkansas State University, Jonesboro has a dynamic and progressive English as a Second Language Program which actively serves students in achieving their goal of acquiring better English proficiency towards enrolling in graduate or undergraduate programs of study at ASU.

Our English as a Second Language Program is comprehensive in its design and structure with a multi-pronged approach focusing on providing students with English language instruction, practical tasks and activities that foster and reinforce students' instruction and fluency development, and course work and activities which are implemented much the same way as students will experience in the university classroom.

The program consists of five levels and a “zero-beginner” level for students with little or no background in English language instruction. Courses in the four skills of reading, writing, listening, and speaking as well as grammar and pronunciation 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, critical thinking and analysis, preparing for and giving oral presentations, working in a group, writing essays and papers, etc.

ESL Mission Statement

The International Center for English (TICE) provides quality instruction in English as a second language to prepare international students for academic study at Arkansas State University (ASU) or other institutions of higher education in the United States. The program seeks to develop students’ linguistic competency, cultural awareness, and critical thinking skills to enable them to succeed academically and to have a positive intercultural experience.

Additional Program Information

The ESL program of TICE offers credit bearing college preparatory language courses to international students who wish to pursue undergraduate or graduate studies at ASU but do not meet the English language proficiency requirement for admission. Students who matriculate through the program and successfully complete the final level of the program are eligible to enter undergraduate or graduate studies with no further need for language proficiency examination, e.g., TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) scores.

Students must complete all course work with a grade average of B or higher for all ESL courses in levels Foundations of English through Level 4. In the final course, Level 5, students must maintain a B average to progress to undergraduate studies. All students who are candidates for graduate studies must maintain an A average in level 5. Credit for all ESL courses will be awarded upon graduating from the program through successful completion of coursework or completion of the program through TOEFL examination and satisfactory progress up through the last level of ESL in which the student was enrolled. Additionally, students must enroll in an undergraduate or graduate program at ASU.

Undergraduate Bridge Course

The International Center for English (TICE) is also dedicated to serving the community of undergraduate international students matriculating at Arkansas State University. In particular, we are keenly aware of their need for support and assistance in the areas of academics and social adjustment due to cultural and language differences. To this end, TICE has the Undergraduate Bridge Course, to assist students in making a smooth transition into the academic and social settings of Arkansas State University. This course provides students with instruction on a variety of topics and issues such as what is plagiarism and cheating and how to avoid it; what are the paradigms of instruction such as student-centered vs. teacher centered, the teacher as facilitator; working in groups or pairs to complete an assignment, how to give an oral presentation, effective reading and writing skills and how to use resources for writing a research paper; how to interact with fellow classmates and instructors, etc. American conventions in these areas of academic work at the university level may be very different from the student’s home country. The bridge course gives us the opportunity to help students adjust to these conventions and be successful.

All new and transferring undergraduate international students are required to take the undergraduate bridge course during their first semester of matriculation at ASU.

Detailed information and answers to questions about the English as a Second Language Program and the Undergraduate Bridge Course can be obtained by e-mail at tice@astate.edu or by phone at +1 870-973-3504.

Library and Information Resources

Mr. Jeffrey R. Bailey, Interim Dean of Library Information Resources


PURPOSE

The Dean B. Ellis Library is a teaching library. We are directly involved in advancing the teaching, research and service missions of the university. With the adoption of this mission statement, the role of the library expanded from being a passive location for a collection of books and journals, to providing library faculty who actively teach students how to effectively use information resources. This includes accessing, selecting, evaluating, and using information tools in a variety of formats, including print, multimedia, and electronic. Library and Information Resources courses offer students the opportunity to develop information skills that will help them be successful in other academic courses, make informed decisions, and be productive members of society.

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

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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 service in the Marine Corps). The ROTC Leaders Training 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 tuition, 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 10 January of their senior year. Three- and two-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. 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 Duty (depending on the needs of the Army). Cadets in the Advanced Course receive textbooks, uniforms, and a non-taxable 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 (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 10 January of their senior year. Three- and two-year scholarship applications must be completed by the spring semester, prior to the first school year of the scholarship.

3. Simultaneous Membership Program (SMP):

Individuals may enroll in the Military Science and Leadership Advanced Course while retaining membership in the Army National Guard or Army Reserve. Those wishing to serve in the Army National Guard or Army Reserve during enrollment in the Military Science and Leadership Advanced Course may do so except in certain cases. In addition to receiving cadet monthly subsistence, these individuals also receive pay (ES or higher, from previously held grade) from their Army National Guard or Army Reserve unit and qualify for the Montgomery GI Bill and Federal Tuition Assistance benefits. For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
LEADERSHIP DEVELOPMENT

Military Science students are required to participate in a Leadership Laboratory in addition to classroom requirements. Training consists of military drill and ceremonies, field exercises, simulated leadership problems, and familiarization with Army weapons and equipment.

Minor in Military Science and Leadership

A minor in Military Science and Leadership can be granted only to those students who qualify for enrollment in the Advanced Course and subsequent commissioning as an officer in the U.S. Army.

Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Sem. Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Basic Course</td>
<td>6 hrs</td>
</tr>
<tr>
<td>MSL 1011, Foundations of Leadership</td>
<td>1 hr</td>
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<tr>
<td>MSL 1021, Basic Leadership</td>
<td>1 hr</td>
</tr>
<tr>
<td>MSL 2032, Individual Leadership Studies</td>
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<td>MSL 2042, Leadership and Teamwork</td>
<td>3 hrs</td>
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<tr>
<td>B. Advanced Course</td>
<td>12 hrs</td>
</tr>
<tr>
<td>MSL 3053, Leadership and Problem Solving</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MSL 3063, Leadership and Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MSL 4073, Leadership and Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MSL 4083, Leadership</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Military History Course</td>
<td>2-3 hrs</td>
</tr>
<tr>
<td>TOTAL</td>
<td>20-21 hrs</td>
</tr>
</tbody>
</table>

*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.*

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

Center for Regional Programs
Dr. Mike Bowman, Interim Dean and Director of Compressed Video Network

MISSION STATEMENT
The Center for Regional Programs mission is to extend the resources of Arkansas State University-Jonesboro to meet educational needs and to provide public service for the citizens of Arkansas. The Center for Regional Programs works closely with the colleges of the university, businesses, and communities in Arkansas to ensure that the resources and programs of Arkansas State University-Jonesboro are responsive to the needs of the region and the state. To accomplish this mission, Regional Programs provides off-campus credit programs and courses, independent study credit courses, and services to industry, public schools, and Arkansas two-year colleges.

COMPRESSED VIDEO NETWORK
Arkansas State University offers classes through compressed video interactive television. Compressed video allows for two-way, synchronous interaction between multiple sites including Arkansas two-year colleges.

Arkansas State University-Jonesboro, Arkansas Northeastern College in Blytheville, and East Arkansas Community College in Forrest City. These sites participate in day, night, and weekend classes offered by several departments at Arkansas State University-Jonesboro.

COMMUNITY EDUCATION
The Community Education program provides non-credit continuing education and public service opportunities responsive to the interests and needs of community citizens. A variety of nontraditional classes are available for professional development, personal enrichment, summer fun, hobby and leisure. Community members are encouraged to contact the Center for Regional Programs to request or to inquire about new courses that may be in development. In addition to designing courses, the Center is authorized to issue continuing professional education (CPE) and continuing education unit (CEU) credit for approved professional development training programs.

HIGH SCHOOL CONCURRENT PROGRAM
The Center for Regional Programs oversees the administration of Arkansas State University-Jonesboro’s High School Concurrent Program. Academic oversight of the program’s concurrent courses is provided by the sponsoring Arkansas State University-Jonesboro academic departments. This program offers high school students who are enrolled in participating high schools the opportunity to earn college credit for courses taken at the high school, taught by university-approved high school teachers. Course offerings vary at the participating high schools, dependent upon instructor qualifications and availability, as well as each high school’s needs. High school students must meet Arkansas State University’s qualifications for concurrent admission before participating in the concurrent enrollment program. The Concurrent Program is nationally accredited through the National Alliance of Concurrent Enrollment Partnerships.

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.

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.

Arkansas Northeastern College (formerly Mississippi County Community College)
Degrees offered are:
- B.S. Criminology
- B.A. Criminal Justice
- B.S. Business Administration
- B.S. Business Management
- B.S. Manufacturing-Industrial Technology
- B.S.E. Early Childhood Education (P-4)
- B.S.E. Middle Level Education
- M.S.E. Curriculum and Instruction
- M.S.E. Educational Leadership
- M.S.E. Elementary Administration.

Arkansas State University-Beebe
Degrees offered are:
- A.S.N. Nursing (LP•RN Trans.)
- B.A. Criminology
- B.S. Business Administration
- B.S.E. Early Childhood Education (P-4)
- B.S.E. Middle Level Education
- B.S.E. Elementary Education (4-8)
- M.B.A. Business
- M.S.E. Curriculum and Instruction
- M.S.E. Educational Leadership
- Ed.S. Educational Leadership.

East Arkansas Community College
Degrees offered are:
- B.A. Criminology
- B.S. Business Administration
- B.S.E. Early Childhood Education (P-4)
- B.S.E. Middle Level Education
- M.S.E. Curriculum and Instruction
- M.S.E. Educational Leadership.

Mid-South Community College
Degrees offered are:
- A.S.N. Nursing
- B.S. Business Administration
- B.S.E. Early Childhood Education (P-4)
- B.S.E. Middle Level Education
- B.S.N. Nursing (RN•BSN Trans.)
- M.B.A. Business
- M.S.E. Curriculum and Instruction
- M.S.E. Educational Leadership.

AROFF-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.

Freshmen and Sophomore general education courses are offered at the ASU system campuses in Paragould and Marked Tree. Students must apply to ASU-Jonesboro to attend these classes.

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The Faculty (as of July 1, 2010)

ALAINA ABRAHAMSON, 2009
Temporary Instructor in Athletic Training
B.A., Fort Lewis College

HARRIETTE ADAMS, 1996
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JASON MICHAEL ADAMS, 2010
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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>University/College</th>
<th>Degree(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JULIA DUNLAP, 1999</td>
<td>Catalog Librarian</td>
<td>Arkansas State University</td>
<td>B.A., Ouachita Baptist University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S., University of Central Arkansas</td>
<td>M.S.I.S., University of Texas at Austin</td>
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<tr>
<td>CPT TIM DURHAM, 2000</td>
<td>Assistant Professor of Military Science</td>
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<td>Ph.D., University of Kansas</td>
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<td>BEVERLY EDWARDS, 2007</td>
<td>Assistant Professor of Social Work</td>
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<td>B.S.W., Jackson State University</td>
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<td>M.S.W., Ohio State University—Columbus</td>
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<td>GARY EDWARDS, 2006</td>
<td>Assistant Professor of History</td>
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<td>SHERRY ESKRIDGE, 2006</td>
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<tr>
<td>GRANT FENNER, 2003</td>
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<tr>
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</tr>
<tr>
<td>JOY FIALA, 2002</td>
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</tr>
<tr>
<td>KELLY FISH, 2001</td>
<td>Associate Professor of Computer &amp; Information Technology</td>
<td>University of Texas at Austin</td>
<td>B.B.A., University of Texas at Austin</td>
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<td></td>
<td>M.I.M., American Graduate School of International Management</td>
<td>Ed.D., University of Mississippi</td>
</tr>
<tr>
<td>DEANNA FLEMING, 2007</td>
<td>Temporary Instructor in Early Childhood—ASU</td>
<td>Arkansas State University</td>
<td>B.S.E., University of Central Arkansas—Conway</td>
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<td>M.Ed., Harding University</td>
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<tr>
<td>MYRON FLOSTAD, 1989</td>
<td>Assistant Library Director</td>
<td>Warburg College</td>
<td>B.A., University of Northern Iowa</td>
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<td></td>
<td></td>
<td>M.L.S., University of Iowa</td>
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<tr>
<td>GEORGE FOLDESY, 1992</td>
<td>Professor of Education</td>
<td>Chadron State College</td>
<td>B.S., Chadron State College</td>
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<td>M.S., Chadron State College</td>
<td>Ed.S., University of Nebraska—Omaha</td>
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<tr>
<td>GILBERT LEN FOWLER JR., 1978</td>
<td>Professor of Journalism</td>
<td>Arkansas State University</td>
<td>B.S., Arkansas State University</td>
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<td></td>
<td>M.A., University of Mississippi—Carbondale</td>
<td>Ph.D., Southern Illinois University</td>
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<tr>
<td>RICHARD K. FREER, 1994</td>
<td>Associate Professor of Social Work</td>
<td>Anderson University</td>
<td>M.S.W., Michigan State University—Case Western Reserve University</td>
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<td></td>
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<td>M.S., University of Memphis</td>
<td>Ph.D., University of Memphis</td>
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<td>LEN FREY, 2000</td>
<td>Professor of Management</td>
<td>Arkansas State University</td>
<td>B.S., Arkansas State University</td>
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<td>M.B.A., Arkansas State University—ASU</td>
<td>Ed.D., University of Memphis</td>
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<td>KAREN FULLER, 2003</td>
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<td>Arkansas State University</td>
<td>B.S., Arkansas State University</td>
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<td>DIANA FULLER, 2007</td>
<td>Assistant Professor of Nursing</td>
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<td>M.S.N., Arkansas State University—ASU Mountain Home</td>
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<th>Name</th>
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<tr>
<td>GENEE' GAINES, 2009</td>
<td>Instructor, Coordinator of Teaching Internship and</td>
<td>Field Experiences for Off-Campus Sites (ADTEC)</td>
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<td></td>
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<td>Arkansas State University</td>
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<td>MINGHUI GAO, 2008</td>
<td>Assistant Professor of Secondary Education</td>
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<td></td>
<td></td>
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<td>M.Ed., Northeastern Normal University—Chengdu, China</td>
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<td>M.Ed., Harvard Graduate School of Education</td>
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<tr>
<td>CLAIRE GARRARD, 2010</td>
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<td>B.A., University of Mississippi</td>
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<td>ALYSON GILL, 1999</td>
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<td>B.A., University of Maine</td>
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<td>O.D., Indiana University School of Optometry</td>
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<td>B.S., Central Baptist College</td>
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<th>Name</th>
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| YEONSANG HWANG, 2009 | Associate Professor of Civil Engineering | B.S., Yonsei University-Korea  
M.S., Yonsei University-Korea  
Ph.D., University of Colorado |
| DEBRA INGRAM, 2000   | Associate Professor of Mathematics  | B.S., University of Minnesota  
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| JULIE JUER ISAACSON, 1987 | Associate Professor of Nursing  | B.S.N., University of Tennessee  
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Ph.D., Ohio State University

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Ph.D., Pennsylvania State University

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<th>Name</th>
<th>Title</th>
<th>Institution 1</th>
<th>Institution 2</th>
<th>Institution 3</th>
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<tr>
<td>Jacques Singleton</td>
<td>Assistant Professor of Special Education</td>
<td>B.S., University of Southern Mississippi</td>
<td>M.S.W., University of Southern Mississippi</td>
<td>Ed.D., University of Memphis</td>
</tr>
<tr>
<td>Ganaathathy Sivakumar</td>
<td>Research Assistant Professor</td>
<td>B.S., Ayya Nadar Janaki Ammal College—India</td>
<td>M.S., Ayya Nadar Janaki Ammal College—India</td>
<td>Ph.D., Bharathidasan University—India</td>
</tr>
<tr>
<td>Phyllis Skogra</td>
<td>Professor of Nursing</td>
<td>B.S.N., University of Tennessee</td>
<td>M.S., University of Tennessee</td>
<td>Ph.D., University of Kansas</td>
</tr>
<tr>
<td>Stacey Siao</td>
<td>Instructor in Physical Therapy</td>
<td>B.S.E., Arkansas State University</td>
<td>B.S., Arkansas State University</td>
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<tr>
<td>Brenda Smith</td>
<td>Temporary Associate Professor of Nursing</td>
<td>B.S.N., University of Alabama</td>
<td>M.N., Emory University</td>
<td>Ed.D., University of Memphis</td>
</tr>
<tr>
<td>Susan Smith</td>
<td>Assistant Professor of Nursing</td>
<td>B.S., University of Central Arkansas</td>
<td>M.S.N., University of Central Arkansas</td>
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<tr>
<td>Victoria Spaniol</td>
<td>Assistant Professor of English</td>
<td>B.A., West Virginia University</td>
<td>M.A., University of Southwestern Louisiana</td>
<td>Ph.D., University of Southwestern Louisiana</td>
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<tr>
<td>Michael P. Spikes</td>
<td>Professor of English</td>
<td>B.A., Mississippi State University</td>
<td>M.A., Indiana University</td>
<td>Ph.D., Indiana University</td>
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<tr>
<td>Malathi Srinivasan</td>
<td>Associate Professor of Molecular Biology</td>
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<td>M.S., Jawaharlal Institute—India</td>
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<tr>
<td>Annette S. Stacy</td>
<td>Associate Professor of Nursing</td>
<td>B.S.N., Vanderbilt University</td>
<td>M.S.N., University of Virginia</td>
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<tr>
<td>Curtis E. Steele</td>
<td>Professor of Art</td>
<td>B.F.A., California College of Arts and Crafts</td>
<td>M.A., California State University—Chico</td>
<td>M.A., Memphis State University</td>
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<tr>
<td>Jason Stewart</td>
<td>Temporary Instructor in Agricultural Engineering</td>
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<td>M.S., Texas A&amp;M University</td>
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<tr>
<td>Paula Stewart-Jima</td>
<td>Assistant Professor of Teacher Education</td>
<td>B.S.E., University of Missouri—Columbia</td>
<td>M.S.E., Arkansas State University</td>
<td>Ph.D., University of Arkansas-Fayetteville</td>
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<td>Jim L. Stillwell</td>
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<td>M.S., Western Illinois University</td>
<td>Ph.D., Indiana University</td>
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<td>Vicki Stripling</td>
<td>Instructor in Developmental Reading</td>
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<td>Hubert B. Stroud</td>
<td>Professor of Geography</td>
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<td>M.A., Memphis State University</td>
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<tr>
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<td>Ph.D., University of Toledo</td>
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<td>Professor of History</td>
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<td>M.A., University of Illinois—Chicago</td>
<td>Ph.D., University of Illinois—Urbana-Champaign</td>
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<td>Nicholas Taggart</td>
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<td>M.A., Georgia State University</td>
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<tr>
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<td>M.S., University of Arkansas—Fayetteville</td>
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<td>Ph.D., Texas A&amp;M University</td>
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<td>Philip Tekw</td>
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<td>M.B.A., University of Mississippi</td>
<td>M.T., University of Mississippi</td>
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<tr>
<td>Julie Thatcher</td>
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<tr>
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<td>B.A., University of California—Barkeley</td>
<td>M.A., University of Iowa</td>
<td>Ph.D., University of Iowa</td>
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<th>Name</th>
<th>Position/Title</th>
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<tr>
<td>TRACY WHITE, 1999</td>
<td>Associate Professor of Radiologic Sciences</td>
<td>B.S., University of Central Arkansas</td>
</tr>
<tr>
<td>MALCOLM WHITEHEAD, 2009</td>
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<td>J. DARRELL WIDICK, 1984</td>
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<tr>
<td>WYNONA WIGGINS, 1993</td>
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<td>B.S.N., Arkansas State University; M.S.N., University of Tennessee—Memphis</td>
</tr>
<tr>
<td>BARBARA Wike, 1999</td>
<td>Assistant Professor of Nursing</td>
<td>B.S.N., University of Arkansas—Monticello; M.S.N., University of Central Arkansas</td>
</tr>
<tr>
<td>LANCE WILCOX, 2009</td>
<td>Assistant Professor of Nursing</td>
<td>B.S.N., Arkansas State University; M.S.N., Arkansas State University</td>
</tr>
<tr>
<td>JESSICA WILCOXEN, 2009</td>
<td>Temporary Assistant Professor of Graphic Design</td>
<td>B.A., Bradley University; M.F.A., University of Memphis</td>
</tr>
<tr>
<td>SARAH WILKESON-FREEMAN, 1996</td>
<td>Professor of History</td>
<td>B.A., University of Iowa; M.A., University of North Carolina; Ph.D., University of North Carolina</td>
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<tr>
<td>MELISSA K. WILKINSON, 2010</td>
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<tr>
<td>CARMEN WILLIAMS, 2003</td>
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<tr>
<td>DIANA WILLIAMS, 1999</td>
<td>Associate Professor of Teacher Education</td>
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<tr>
<td>GAYLE WILLIAMS, 1991</td>
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<td>B.A., Arkansas State University; M.A., Arkansas State University; Ph.D., University of Mississippi</td>
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<td>JOE WILLIAMS, 2010</td>
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<td>CHRISTOPHER WILSON, 2009</td>
<td>Assistant Professor of Music</td>
<td>B.M.E., University of Arkansas—Fayetteville; M.M., University of Arkansas—Fayetteville; D.M.A., Catholic University of America</td>
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<tr>
<th>Name</th>
<th>Years</th>
<th>Title and Department</th>
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<tbody>
<tr>
<td>Robert F. Abbott</td>
<td>1967-1991</td>
<td>Emeritus Professor of Counselor Education and Psychology</td>
</tr>
<tr>
<td>Cindy Albright</td>
<td>1976-2007</td>
<td>Emeritus Assistant Professor of Physical Education</td>
</tr>
<tr>
<td>Ed Alexander</td>
<td>1994-2006</td>
<td>Emeritus Assistant Professor of Music</td>
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<td>T.R. Baker</td>
<td>1966-1992</td>
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<td>Larry Ball</td>
<td>1970-2001</td>
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<td>Eugene A. Ballard</td>
<td>1964-1990</td>
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<td>Beverly Bartels</td>
<td>1970-1998</td>
<td>Emeritus Associate Professor of Nursing</td>
</tr>
<tr>
<td>Ovid Bayless</td>
<td>1974-1998</td>
<td>Emeritus Professor of Speech Communication and Chair, Department of Speech Communication and Theatre Arts</td>
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<tr>
<td>John K. Beadles</td>
<td>1968-1993</td>
<td>Emeritus Professor of Biology and Dean, Graduate School</td>
</tr>
<tr>
<td>J. Edward Bennett</td>
<td>1963-1997</td>
<td>Emeritus Professor of Chemistry</td>
</tr>
<tr>
<td>John B. Bennett</td>
<td>1968-1990</td>
<td>Emeritus Associate Professor of Mathematics</td>
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<tr>
<td>Thomas D. Bishop</td>
<td>1970-2002</td>
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<tr>
<td>Loretta Bookout</td>
<td>1987-1997</td>
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</tr>
<tr>
<td>Robert Bowman</td>
<td>1970-1999</td>
<td>Emeritus Professor of Mathematics</td>
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<tr>
<td>Willis Brenner</td>
<td>1985-1998</td>
<td>Emeritus Documents Librarian</td>
</tr>
<tr>
<td>Lew Brinkley</td>
<td>1969-2005</td>
<td>Emeritus Professor of Agricultural Economics</td>
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<tr>
<td>David Burgess</td>
<td>1973-1998</td>
<td>Emeritus Associate Professor of Health Education</td>
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<tr>
<td>Julia Burkart</td>
<td>1984-1996</td>
<td>Emeritus Associate Professor of Social Work</td>
</tr>
<tr>
<td>James Burlison</td>
<td>1963-2000</td>
<td>Emeritus Professor of English</td>
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<tr>
<td>Alta Burns</td>
<td>1961-1996</td>
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<td>John L. Burns</td>
<td>1969-1994</td>
<td>Emeritus Professor of Counselor Education</td>
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<tr>
<td>Sandra Burns</td>
<td>1984-1996</td>
<td>Emeritus Assistant Professor of Business Law</td>
</tr>
<tr>
<td>William Byrd</td>
<td>1955-1993</td>
<td>Emeritus Associate Professor of Biology</td>
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<tr>
<td>Martha Caldwell</td>
<td>1985-1993</td>
<td>Emeritus Assistant Professor of Nursing</td>
</tr>
<tr>
<td>Richard Carwell</td>
<td>1971-2008</td>
<td>Emeritus Assistant Professor of Radio-Television</td>
</tr>
<tr>
<td>James Cathey</td>
<td>1986-2003</td>
<td>Emeritus Instructor in Radio-Television</td>
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<tr>
<td>Tom Chaffee</td>
<td>1968-2010</td>
<td>Emeritus Professor of Art</td>
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<tr>
<td>William G. Chance</td>
<td>1965-1990</td>
<td>Emeritus Professor of Education</td>
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<tr>
<td>Daniel Cline</td>
<td>1992-2010</td>
<td>Emeritus Professor of Education</td>
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<tr>
<td>Ruby Chittenden</td>
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<td>Emeritus Director of the COB Advising Center</td>
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<td>Larry Clowers</td>
<td>1969-2000</td>
<td>Emeritus Assistant Professor of Sociology</td>
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<td>Baron Conaway</td>
<td>1965-1995</td>
<td>Emeritus Professor of Reading</td>
</tr>
<tr>
<td>Harold L. Copenhaver</td>
<td>1970-1988</td>
<td>Emeritus Professor of Music and Dean, College of Fine Arts</td>
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<tr>
<td>Glenda Lee Coppedige</td>
<td>1995-2007</td>
<td>Emeritus Temporary Instructor in English</td>
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<tr>
<td>William Crompton</td>
<td>1980-2006</td>
<td>Emeritus Associate Professor of Agricultural Engineering</td>
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<tr>
<td>Larry Dale</td>
<td>1986-2008</td>
<td>Emeritus Professor of Economics</td>
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<td>Roberta Daniels</td>
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<td>Scott Darwin</td>
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<tr>
<td>Don Denny</td>
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<tr>
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<tr>
<td>James A. DeVazer</td>
<td>1967-1991</td>
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<td>Beverly DeWater</td>
<td>1972-2001</td>
<td>Emeritus Assistant Professor of Psychology</td>
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<td>Jack Dixon</td>
<td>1976-2000</td>
<td>Emeritus Associate Professor of Sociology</td>
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<td>Gerald Dickinson</td>
<td>1990-2005</td>
<td>Emeritus Professor of Education</td>
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<tr>
<td>Michael Dougan</td>
<td>1970-2006</td>
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<td>Ervin Dunham</td>
<td>1967-1983</td>
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<td>John Einger</td>
<td>1978-1999</td>
<td>Emeritus Professor of Education</td>
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<td>David England</td>
<td>1984-2006</td>
<td>Emeritus Associate Professor of Political Science</td>
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<td>Daniel O. Felts</td>
<td>1967-1996</td>
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<td>1966-2010</td>
<td>Emeritus Associate Professor of Journalism</td>
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<td>Raymond Gauk</td>
<td>1967-1998</td>
<td>Emeritus Professor of Mathematics</td>
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<td>Roy Gehring</td>
<td>1968-2000</td>
<td>Emeritus Associate Professor of Environmental Botany</td>
</tr>
<tr>
<td>Martha Jane Gill</td>
<td>1970-2002</td>
<td>Emeritus Instructor in French</td>
</tr>
<tr>
<td>David Gillanders</td>
<td>1984-2006</td>
<td>Emeritus Professor of Electrical Engineering</td>
</tr>
<tr>
<td>Betty B. Goldsby</td>
<td>1969-1985</td>
<td>Emeritus Instructor in Elementary Education</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Name</th>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albin J. Langlois</td>
<td>1964-1997</td>
<td>Emeritus Professor of Agriculture</td>
</tr>
<tr>
<td>Julia Lansford</td>
<td>1964-2008</td>
<td>Emeritus Associate Professor of Music</td>
</tr>
<tr>
<td>Norman Lavers</td>
<td>1976-2000</td>
<td>Emeritus Professor of English</td>
</tr>
<tr>
<td>Nadean Lee</td>
<td>1968-1992</td>
<td>Emeritus Head Circulation Librarian</td>
</tr>
<tr>
<td>Gary Leibrock</td>
<td>1976-2003</td>
<td>Emeritus Instructor in Physical Education</td>
</tr>
<tr>
<td>Evan Lindquist</td>
<td>1963-2003</td>
<td>Emeritus Professor of Art</td>
</tr>
<tr>
<td>Jerry Linnstaedter</td>
<td>1968-2007</td>
<td>Emeritus Professor of Mathematics and Chair, Department of Mathematics and Statistics</td>
</tr>
<tr>
<td>Laddie Logan</td>
<td>1979-2000</td>
<td>Emeritus Associate Professor of Marketing</td>
</tr>
<tr>
<td>Coy London</td>
<td>1970-1996</td>
<td>Emeritus Associate Professor of Accounting</td>
</tr>
<tr>
<td>Robbie Lyle</td>
<td>1976-1992</td>
<td>Emeritus Instructor in Developmental Programs</td>
</tr>
<tr>
<td>Julia M. Hita Manley</td>
<td>1966-1976</td>
<td>Emeritus Associate Professor of Biology</td>
</tr>
<tr>
<td>Rosa Marlay</td>
<td>1975-2008</td>
<td>Emeritus Professor of Political Science</td>
</tr>
<tr>
<td>Katherine Masters</td>
<td>1977-2002</td>
<td>Emeritus Instructor in Developmental Studies and Director, Freshman Studies</td>
</tr>
<tr>
<td>Mitchell M. Masters</td>
<td>1976-2002</td>
<td>Emeritus Professor of Education and Coordinator, Community College Teaching Program</td>
</tr>
<tr>
<td>Steven L. Meyes</td>
<td>1988-2002</td>
<td>Emeritus Professor of Art</td>
</tr>
<tr>
<td>Hai McCloud</td>
<td>1966-1998</td>
<td>Emeritus Professor of Physics</td>
</tr>
<tr>
<td>Leonard McDaniel</td>
<td>1967-1996</td>
<td>Emeritus Registrar</td>
</tr>
<tr>
<td>Mary Lou McDaniel</td>
<td>1967-1993</td>
<td>Emeritus Assistant Dean of Students</td>
</tr>
<tr>
<td>C. K. McFarland</td>
<td>1971-1997</td>
<td>Emeritus Professor of History and Management</td>
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<tr>
<td>Richard McGhee</td>
<td>1991-2003</td>
<td>Emeritus Professor of English</td>
</tr>
<tr>
<td>B.C. McGough</td>
<td>1965-1997</td>
<td>Emeritus Professor of Real Estate</td>
</tr>
<tr>
<td>Alvin J. McRaven</td>
<td>1965-1991</td>
<td>Emeritus Professor of Education</td>
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<tr>
<td>Lawrence Mink</td>
<td>1966-2000</td>
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<tr>
<td>Richard S. Mitchell</td>
<td>1964-1998</td>
<td>Emeritus Professor of Chemistry</td>
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<tr>
<td>Logan Moon</td>
<td>1968-1995</td>
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<tr>
<td>Owen Moseley</td>
<td>1988-2001</td>
<td>Emeritus Professor of Accounting</td>
</tr>
<tr>
<td>John Muir</td>
<td>1985-2005</td>
<td>Emeritus Professor of Agronomy</td>
</tr>
<tr>
<td>Roland Mullins</td>
<td>1965-1986</td>
<td>Emeritus Professor of Economics and Finance</td>
</tr>
<tr>
<td>Paul Nave</td>
<td>1969-2003</td>
<td>Emeritus Professor of Chemistry and Chair, Department of Chemistry and Physics</td>
</tr>
<tr>
<td>David W. Niederbrach</td>
<td>1959-1997</td>
<td>Emeritus Associate Professor of Music</td>
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<tbody>
<tr>
<td>Grace Whitis, 1985-1999</td>
<td></td>
<td>Emeritus Professor of Nursing</td>
</tr>
<tr>
<td>Robert Whitis, 1985-1999</td>
<td></td>
<td>Emeritus Professor of Accounting</td>
</tr>
<tr>
<td>Dalton Whitt, 1968-1997</td>
<td></td>
<td>Emeritus Assistant Professor of Accounting</td>
</tr>
<tr>
<td>Emelda Williams, 1978-2000</td>
<td></td>
<td>Emeritus Professor of Marketing and</td>
</tr>
<tr>
<td>J. Larry Williams, 1974-1997</td>
<td></td>
<td>Emerging Professor of Sociology</td>
</tr>
<tr>
<td>Stanley H. Williams, 1972-1997</td>
<td></td>
<td>Emeritus Professor of Education</td>
</tr>
<tr>
<td>Whitney Williams, 1986-2008</td>
<td></td>
<td>Emeritus Associate Professor of Clinical Laboratory Sciences and</td>
</tr>
<tr>
<td>William Williams, 1978-1996</td>
<td></td>
<td>Emeritus Associate Professor of Finance</td>
</tr>
<tr>
<td>Mary Lou Wood, 1965-1995</td>
<td></td>
<td>Emeritus Assistant Professor of Administrative Services</td>
</tr>
<tr>
<td>William Wyatt, 1967-2009</td>
<td></td>
<td>Emeritus Professor of Chemistry</td>
</tr>
<tr>
<td>Charles Yauger, 1964-2000</td>
<td></td>
<td>Emeritus Associate Professor of Management</td>
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Administrative Support Staff 2010-2011

FINANCE AND ADMINISTRATION
Administrative Services
Budget Planning and Development
Controller’s Office
Convocation Center
Facilities Management
Human Resources
Information & Technology Services
Procurement Services
Sponsored Programs Accounting
Treasurer’s Office

Administrative Services
Donna McMillin, Assistant Vice Chancellor
Russ Hannah, Associate Vice President for Financial/Controller
Tim Dean, Director
Al Stoverink, Assistant Vice Chancellor
J. W. Mason, Associate Vice President
Mark Hoeting, Chief Information Officer
Carol Barnhill, Director
Rentia Gray, Director
Sandra Miley, Treasurer

Finance and Administration
Donna McMillin, Assistant Vice Chancellor
Russ Hannah, Associate Vice President for Financial/Controller
Tim Dean, Director
Al Stoverink, Assistant Vice Chancellor
J. W. Mason, Associate Vice President
Mark Hoeting, Chief Information Officer
Carol Barnhill, Director
Rentia Gray, Director
Sandra Miley, Treasurer

CHANCELLOR
Administrative Services
Administrative Services
Administrative Services

Administrative Services
Tom Moore, Executive Assistant
Marilyn Brewer, Office Manager
Sherry Johnson, Assistant to the Chancellor

FINANCE AND ADMINISTRATION
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Budget Planning and Development
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Procurement Services
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Treasurer’s Office

ACADEMIC AFFAIRS AND RESEARCH
Academic Affairs
Delta Center for Economic Development
Delta Heritage Initiatives
Fowler Center
Institutional Research, Planning, and Assessment
International Programs & Services
Museum
Office of the Registrar
Regional Programs

Academic Affairs
Lynita Cooksey, Associate Vice Chancellor for Academic Services and Dean of University College
Robin Hicks, Executive Assistant
Alain McVey, Executive Director
Ruth Hawkins, Director
Jeff Brown, Director
Kathryn Jones, Director
Tugrul Polat, Director
Marli Lu Allen, Director
Tracy Finch, Registrar
Michael Bowman, Interim Dean

STUDENT AFFAIRS
Student Services
Admissions
Career Services
Counseling Center
Dining Services
Disability Services
Enrollment Services
Financial Aid
Parking Services
Residence Life
Student Union
Student Health Center
Testing
University Police

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Student Health Center
Testing
University Police

UNIVERSITY ADVANCEMENT
Advancement Services
Alumni Relations
Publications and Creative Services
University Communications
University Relations

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Alumni Relations
Publications and Creative Services
University Communications
University Relations

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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:

- Horror Fiction and Film
- Mystery/Detective Fiction and Film
- Law and Dissent in America
- Science Fiction in Literature and Film
- Creating Connections Between Science and The Public
- American Culture in the 1850's
- American Culture in the 1950's
- Politics and Culture of the 1920's
- New Directions: 20th Century Music
- Representing the Civil Rights Movement
- Lower Mississippi Delta History and Culture
- The Blues and Literature
- Sustainable Development in Modern Society

**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 Council Representative, and the Director of 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 Council Representative 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 noncredit 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 Credit 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.

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AGEC 4053. Agricultural Finance  Financial elements of the farm business. Emphasis will be given to the use and sources of agricultural credit. Prerequisite, AGEC 1003 or ECON 2313 or ECON 2323. Spring.

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, AGEC 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, AGEC 1003 or ECON 2313 or ECON 2323. Fall, Spring.

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 modern 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, AGED 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 Structural 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 4433. 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 445V. 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.

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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 AGEC 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.

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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 1052 or CHEM 3103. Demand.

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

AGRI 3543. Fundamentals of GIS/GPS  
Fundamentals of GPS-Global Positioning System and GIS-Geographical Information System concepts, equipment, and software used in agricultural, environmental, and natural resource applications. Prerequisite, Math 1023. Fall, Spring.

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. Demand.

AGRI 4523. Agricultural and Industrial Biotechnology  
An introduction to the principles and the applications of modern Biotechnology with emphasis on the applications of recombinant DNA technology to solve environmental and human health problems. The review of major biotechnology companies and bio-products is also included. Prerequisites, BIOL 2013 and 2011, CHEM 1052, BIOL 3013 and 3011 or AGRI 2213 or CHEM 4243 or related courses approved by the instructor. Fall, Spring.

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

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, PSIC 3593 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 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 3003. Small Animal Nutrition  
Fundamental concepts of nutrition applied to companion animals including dogs, cats, and other common pets. Prerequisite, ANSC 1613 or BIO 1613 or BIO 2113. Spring, odd.

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 BIO 1613 or BIO 2113. 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.

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ANSC 3683. 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, limitations, 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. Spring, even.


ANSC 4603. Swine Production Basic principles and their application in pork production, breeding, selection, nutrition, housing, equipment, and economic management. Prerequisite, ANSC 3613. Demand.

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.

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, 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.

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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, fruitlet 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.

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 4294. Special Problems in Horticulture  For students of senior standing. Approval of instructor and dean necessary. Fall, Spring, Summer.


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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. Demand.

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. Demand.

MET 3013. Metallurgy and Material Testing  Teaches hands on experience of various metallurgical techniques and metallurgical Microscopes, macros and micro studies of various metals and alloys and cold worked samples, study of heat treated samples, physical properties, mechanical and harness testing. Prerequisite, MET 2003. Demand.


MET 4013. Nonferrous Metallurgy  Production processes and engineering applications of various nonferrous metals and alloys including aluminum, nickel, copper, magnesium, titanium, tin, lead, and zinc. Prerequisite, MET 2003. Demand.


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 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 or CHEM 1043 and CHEM 1041. 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, toxicity, modes of action, uses, and environmental impact. Lecture two hours and laboratory two hours per week. Prerequisites, CHEM 1013 or CHEM 1043; 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.

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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. Prerequisite, CHEM 1052, 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 4513. Plant Biotechnology Course materials will address the why and how of plant gene transfer plus the issues involved in making those plants part of the agricultural landscape. Dual listed as PSSC 5513. Prerequisite: AGRI 2213 or BIOL 3013 or permission of instructor. Spring.


PSSC 4894. 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.

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. Dual listed as PSSC 5853. 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. 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.

Renewable Energy Technology (RET)

RET 3113. Fundamentals and Applications of Renewable Energy Fundamental principles and applications related to biofuels, wind, solar, hydrogen and other emerging alternative energy technologies along with their applications. Prerequisites, MATH 1023, CHEM 1013, CHEM 1011. Demand.

RET 4013. Process Technology for Agricultural Products Study of processing principles and applications in bio-energy industry; process parameters, properties of materials, transport processes, fluid flow, pumps, material handling, drying, extraction, fermentation, bioreactor, sanitation and process economics. Prerequisites, MATH 1023, CHEM 1013 and CHEM 1011. Process instrumentation or equivalent course as approved by instructor also required. Demand.

RET 4023. Advanced Bioenergy A study of processes and developments in the biofuels and other emerging technology for biobased energy products. Prerequisites, MATH 1023, CHEM 1013, CHEM 1011 and RET 3113, or approval of instructor. Demand.

RET 4113. Advanced Renewable Energy Systems A study of renewable energy systems including technologies for solar, hydrogen, fuel cell, biomass and wind. Prerequisites, MATH 1023, CHEM 1013, CHEM 1011 and RET 3113, or approval of instructor. Demand.

RET 4123. Energy Conservation and Efficiency A study of energy and power measurement techniques to analyze energy use, and methods to conserve energy in residential and industrial sectors. Prerequisites, MATH 1023, PHYS 2054, CS 1013 and RET 3113, or approval of instructor. Demand.

RET 4313. Wind Energy Technology A study of wind energy fundamentals and processes for converting wind power with emphasis on turbines and the wind power systems. Prerequisites, PHYS 2054, MATH 1023, and RET 3113; or approval of instructor. Demand.

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 scripts, basic electronic and electrical 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 IGMP routing protocols, IP traffic filtering, and routing problem solving. Prerequisite, TECH 1013. Spring.
TECH 1423. Beginning Solid Modeling Keycreator II Keycreator introduces the powerful tools to be used in 3-dimensional, 2D, drafting, 3D generation as well as solid modeling applications. This integration called Hybrid Solid Modeling, is the combination of tools. This computer application in graphic techniques is software specific to technology as well 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.

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 addressing using VLMs, configuring OSPF in single area, interconnecting multiple OSPF areas, configuring enhanced IGRP, optimizing routing update operation, and configuring BGP. Prerequisite, TECH 2043. Fall.

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 SolidWorks I Drawing and detailing with SolidWorks, a design automation software package used to produce parts, assemblies and drawings. Fall.

TECH 2803. Computer Aided Drafting and Design II An extension of CAD I, with the use of more integral parts of CAD. Prerequisite, TECH 1803 or instructor approval. Spring, odd.

TECH 2832. 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. This course will only deal with 2D mechanical, electrical and civil aspects of CAD. Prerequisite, TECH 2453. 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 SolidWorks II Continuation of Technology Design, SolidWorks I. Prerequisite, TECH 2453. Spring.

TECH 3463. Advanced ProEngineer 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.

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 percent 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 troubleshooting, 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, Keycreator 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.

TECH 4003. ACAD 2D  2D Fundamentals of ACAD, Computer-Aided Design and Drafting (CADD). Provides students with knowledge and skills to construct basic shapes and make multiview drawings using a hands on approach. Fall, Spring and Summer.

TECH 4083. Mastercam II  Introduction to the concepts and practices of CAM and Machine Protocol with focus on personal application. Summer.

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 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.

Teaching Internship (TIAG)  

TIAG 4826. Agricultural Teaching Internship in the Secondary School  Twelve 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 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.

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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 259V. 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.

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 areas, 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.

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, and inventory valuation procedures. Prerequisite, ACCT 2133 with a C or better. Fall, Spring.

ACCT 3013. Intermediate Accounting II
A detailed study of operational assets, investments, liabilities, and an introduction to the corporate form of organization. Prerequisite, ACCT 3003 with a grade of C or better. Spring, Summer.

ACCT 3033. Intermediate Accounting III
Continuation of the 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 3013 with C or better. Fall, Spring.

ACCT 3053. Cost Accounting with a Managerial Emphasis
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. Prerequisite ACCT 2153 with C or better. Fall, Spring.

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ACCT 4033. Accounting Information Systems  Study of the role, design, characteristic, and function of accounting information systems. Prerequisites, ACCT 3003 with a grade of C or better. 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, fiducaries, 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. Prerequisite, ACCT 3013 with a grade of C or better. Spring, 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. Prerequisite ACCT 2133 with C or better. Demand.

ACCT 4153. Fraud Examination  A study of how and why occupational fraud is committed, how fraudulent conduct can be detected, and how allegations of fraud should be investigated and resolved. Prerequisite ACCT 2133 with C or better. Spring.

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

DEPARTMENT OF COMPUTER AND INFORMATION TECHNOLOGY

Business Technology (BTEC)

BTEC 1000. METHODS AND INTERNSHIP INFO  IMPORTANT INFORMATION

EDBU 4533 METHODS AND MATERIALS IN TEACHING BUSINESS TECHNOLOGY and TIBU 4826 BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL, for BSE Students. TIBU 4826 BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL, for 2nd Degree Students, are located at other locations on the Class Schedule Search. Please follow the directions below for each course to obtain the correct location for each educational course.

EDBU 4533, METHODS AND MATERIALS IN TEACHING BUSINESS TECHNOLOGY
1. Go to Class Schedule Search.
2. Select Method and Mat Teach BTEC Voc.
3. Click on Class Search. METHODS AND MATERIALS IN TEACHING BUSINESS TECHNOLOGY will appear.

BSE students ONLY
TIBU 4826, 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.

2nd Degree Students
TIBU 4825, 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.

2nd Degree Students
ELCI 4013, 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.

BTEC 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.

Computer Information Technology (CIT)

CIT 1903. 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 computer proficiency requirements required. Fall.

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 2543. Keyboarding for Professionals  Covers entry level and advanced level requirements required. Fall.

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.

NOTE: Satisfying the College of Business computer proficiency requirement is a prerequisite, AND CIT 3013 is a prerequisite or co-requisite for ALL upper level CIT courses.

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 3273. Modern Programming Languages  Involves typical business problems using a widely accepted application programming language, such as C++, COBOL, or Java. Prerequisite: completion of a programming course with a grade of C or better. Fall.

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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 Web application development to build web pages for use with various browsers. Includes markup languages, style sheets, client/server side scripting, and related technologies. Prerequisite: Programming course with a grade of C or better. Fall.

CIT 3403. Database Management Enterprise-wide database theory and SQL with the use of industry standard DBMS, such as MySQL, Oracle, or SQL Server. 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.

CIT 3663. Data Mining Theory and practice of knowledge discovery in databases (KDD) with emphasis on predictive modeling and model evaluation using computer software such as SAS to perform data mining. Prerequisite ECON 2113 or approval of instructor. Spring.

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 FODSIC majors before enrolling. Prerequisite, CIT 1503 or CS 1013. Fall.

CIT 409V. Special Problems in Computer Information Technology 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 3823 or prior network experience. Demand.

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 4513 Business Technology 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.

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

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 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. Spring.

CIT 4653. Automatic Data Capture Methods, technologies, systems, and standards used in supply chain information systems and e-commerce 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.

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.

CIT 489V. Materials Teaching BTEC (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.

DEPARTMENT OF ECONOMICS AND FINANCE

Economic Education (ECEC)

ECEC 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. Demand.

ECEC 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. Demand.

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

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 2113 and 2323. This course can be counted as an Economics elective. This course is cross listed as IB 4103. Fall.

ECON 4143. Export Policy and Procedures Provides the rationale for exports and procedures 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 collegiate athletics, applying the concepts of the collective bargaining, cartel behavior, game theory, antitrust issues, and public finance. Prerequisite, ECON 2323. 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. Fall.

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 trade offs associated with public regulation of electric, natural gas, cable TV, and telecommunications firms. Prerequisite, ECON 2313, 2323. Spring.

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 CIT 3523. Fall.

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. Demand.

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. Demand.

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 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. Demand.

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

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.

LAW 4403. Law of Business Organizations  Business related legal subject matter reflecting marketplace problems and considerations. Topics include the law of corporations, partnerships, agencies, and property. Prerequisite, LAW 2023. Demand.

LAW 4503. 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.

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.

REI 4413. Legal Aspects of Real Estate  Principal areas of real estate law including those applicable to real estate brokers within Arkansas. Demand.

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. Appraisal 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. Demand.


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.

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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, Demand.

International Business (IB)

IB 1013. The Global Challenge  Discussion of current world economic and social issues and challenges as they relate to individual beliefs which determine our roles as global citizens. Students are required to participate in a service learning project, internationally or domestically, incurring expenses for travel. Demand.

IB 3013. Global Leadership Experience  On-site examination of organizations, agencies, or locales in a region of the world involving the application of methods and techniques of investigation in International Business. This course has a 10 day service learning component with additional travel expenses required. Prerequisite, completion of 54 credit hours prior to enrollment in class. Demand.

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 438V. 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.

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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 3143. 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 firm 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, or permission of instructor. Fall.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
MKTG 3013. Marketing
Basic concepts and major functions of business, and information to help students become better consumers. Recommended for nonbusiness majors and College of Business freshmen or sophomores. Special course fees may apply. 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 pricing, rate theory, and regulatory policies and procedures. Special course fees may apply. Prerequisite, ECON 2323. Spring.

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 nonprofit marketing when developing marketing strategies. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

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. Prerequisite, 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 pertaining to traffic flow, transportation services marketing, equipment selection and control, fleet management, claims management, and dispatching procedures. Special course fees may apply. Prerequisite, MKTG 3013. Spring.

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 MKTG 4123 or permission of Instructor. Fall.

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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 3003 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. Consent of instructor. Fall, Spring, Summer.

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)


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  Comprehensive overview of the major prepress 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 Press and Post Press processes of graphic reproduction and publishing. Critical aspects unique to each process will be studied including copy preparation, image carriers, image transfer systems, substrates, inks/toners and post press operations. Each process will be studied through classroom experiences, industrial visitations and/or laboratory experiences. Prerequisite, GCOM 1613. Spring.

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, inkjet 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. Fall.

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 3603. Fall.

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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 4303. Permission of instructor required. Fall, odd.

GCOM 489V. 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.

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 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 media 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 3013 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 3053. Introduction to Visual Communications  Exploration of visual messages with text for publication in media outlets. 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 cutlines, legal and ethical issues for editors, and the basic principles of news design. Prerequisite, JOUR 2013. Fall.


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 3143. Strategic Writing  Writing forms and styles across multimedia platforms. Fundamentals and practice in preparation of strategic messages for various channels of communications, including controlled and uncontrolled media. Students will develop skills in information gathering, writing styles, editing, critical thinking and audience analysis. Prerequisites: JOUR 2003 and either PR 3003 or JOUR 3023. Fall, 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 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 4016. 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 upon 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 3053 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, Spring.

JOUR 4050. Public Affairs Reporting Laboratory  Laboratory for Public Affairs Reporting. Must be taken concurrently with JOUR 4053. Spring.

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)
JOUR 4053. 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 2023. 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, soundtrack, and corporate video techniques. Word processing skills required. Fall, Spring.

RTV 3023. 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 3033. 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 dollar 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 3033, or consent of instructor. Fall, Spring.

RTV 3303. History of Moving Images and Narrative Motion Picture A study of the origins of motion pictures and their role in society, with special emphasis on narrative film. Prerequisite, C or better in RTV 3003, RTV 3024, and RTV 3033, or consent of instructor. Fall, Spring.

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.

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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 3033. Fall.

RTV 4363. Multimedia Storytelling  Introductory course in multimedia concepts, media elements, platforms, and production. Emphasis is placed on delivery of content across media platforms for diverse audiences. 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. Prerequisite, C or better in RTV 3023. May be repeated for a maximum total of six credit hours. Fall, Spring.

RTV 4403. Film Distribution Exhibition  An in-depth study of the business of filmmaking and the process of marketing a motion picture in the convergent media marketplace. Consideration is given to traditional modes of film distribution and also emerging media outlets such as websites and podcasting. Prerequisites, RTV 3303, RTV 3403, RTV 3503, RTV 4303. Fall, Spring.

RTV 4443. Internship  Supervised work for a radio or television station, cable system or allied industry. Prerequisite, Consent of Chairman of Department of Radio Television. Fall, Spring, 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 4503. Film Production Practicum  A capstone experience in narrative motion picture production. Students will work individually or in groups to write, produce, shoot, edit and distribute a short film. Prerequisites, RTV 4303; or consent of instructor. Fall, Spring.

RTV 4553. Multimedia Reporting  Application of traditional journalism skills to digital media practice, including integration of audio, photographs, graphics and video as multimedia storytelling tools to enrich online news coverage. Dual listed with RTV 5553. Prerequisite, RTV 3373. Fall, Spring, Summer.

RTV 4573. Sportscasting  Theory and practical application of sportscasting for radio and television. Dual listed with RTV 5573. Fall.

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

Communication Studies (SCOM)
The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php

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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 instructional 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 characteristics 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  
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 5053. Prerequisite, 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 principles of curriculum planning, program planning, materials and management. Must be admitted to the Teacher Education Program. Summer. Fall.

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  
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.

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AT 2311. Clinical Experience in Athletic Training I  The course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. Prerequisites, AT 2203 and AT 2201. Corequisite, AT 2731. Spring.

AT 2303. Emergency Management in Athletic Training  A laboratory course which students practice the advanced skills necessary to evaluate athletic related injuries and illnesses. Prerequisite, AT 2203 and AT 2201. Corequisite, AT 2731. Fall.

AT 2301. Clinical Instruction in Athletic Training I  An introduction to the role of the 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 2301. 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. Prerequisites, ELSE 3643 and ELSE 5783. Prerequisites, ELSE 3643 and ELSE 4743 and entrance into the Teacher Education Program. Spring.

AT 2201. Emergency Management in Athletic Training Laboratory  A laboratory course where students practice the advanced skills necessary to evaluate athletic related injuries and illnesses. Prerequisite, AT 2203 and AT 2201. Corequisite, AT 2731. Fall.

AT 2201. 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 2201. 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 2311. Fall.

AT 2201. Clinical Experience 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 2201. 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 2301 and AT 2311. Corequisite, AT 3401. Fall.

AT 2301. 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 3311. Fall.

AT 2301. 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 and AT 2411. Corequisite, AT 3301. Fall.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND SPORT SCIENCES

Athletic Training (AT)

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. Corequisite, AT 2301 and AT 2311. Corequisite, AT 2401. Spring.

AT 2311. Clinical Experience 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 2401 and AT 2411. Corequisite, AT 3311. Spring.

AT 2311. Clinical Experience in Athletic Training III  This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Corequisite, AT 2301 and AT 2311. Corequisite, AT 3301. Fall.

AT 2311. Clinical Experience in Athletic Training IV  This course provides a proficiency based supervised practical experience in athletic training required for certification by the BOC. Corequisite, AT 3301 and AT 3311. Corequisite, AT 3401. Fall.

AT 3331. Therapeutic Exercise Laboratory  A laboratory course in which students 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 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 3731. 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 in which students 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. Spring.

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. Summer.

DRED 4273. Advanced Driver Education Driver and traffic education with emphasis on advanced instruction and research in driver education. Prerequisite, DRED 4263. Summer.

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 prePRAXIS 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, gymnastic 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 Provides the students with principles and practices in developing programs 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 3633. 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 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 3553, 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.

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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, Summer.

HLTH 3563. Human Sexuality  Emphasis given to human reproduction, courtship, marriage, parenthood, premarital and extramarital sex, and deviate sexual behavior. Fall, Spring.

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.

HEPES 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, HPESS. 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.

HEPES 1883. Foundations of Health, Physical Education and Sport Sciences  Introductory course for the prospective HPESS major. Provides insight to the history, sociological impact, and objectives of physical education and sport, with emphasis on current professional literature and vocational opportunities. HPESS majors must make a C or better in this course. Spring.

HPES 4863. Internship in HPESS 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, including C or better in all major courses. Insurance fee of $17.50. Prerequisite for Exercise Science majors only, ES 4843. Fall, Spring, Summer.

HPES 4893. Internship in HPESS II  Capstone experience for Exercise Science, Health Promotion, Sport Management majors. Enrollment must occur during the last semester of the degree program. Must have all departmental requirements, including C or better in all major courses. Insurance fee of $17.50. Prerequisites for Exercise Science majors only, ES 4843. Fall, Spring, Summer.

HPES 4896. Internship in HPESS  Capstone experience for Exercise Science, Health Promotion, and Sport Management majors. Enrollment must occur during the last semester of the degree program. Must have completed all departmental requirements, including C or better in all major courses. 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, Spring, 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, Spring.

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 rules 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. Demand.

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. Demand.

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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. Demand.

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.

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

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 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 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. Prerequisite SCED 2514. Fall, Spring, Summer.

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 Rhythmic Activities The values, scope, and analysis of rhythmic activities and basic movement experiences. Emphasis is given to instructional techniques and program progression. Prerequisite SCED 2514. 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, and tennis. For students in grades P through 12. Prerequisite, SCED 2514. Fall, Spring.

PE 3853. Sports Promotion and Sales Management Theories, concepts, and research associated with sport consumer behaviors. Prerequisite, Junior level standing. Fall.

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. Prerequisite, SCED 2514. 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, Summer.

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.

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DEPARTMENT OF PSYCHOLOGY AND COUNSELING

Psychology (PSY)

PSY 1013. Making Connections Psychological Wellness  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. Psychology as a Science and a Profession  An overview of psychology as a science and as a profession encompassing psychological research methods, an exploration of the major and skills required for successful completion, areas of specialization, careers in psychology, and post-graduate opportunities. Fall, Spring.

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, MATH 1023 or a more advanced mathematics course. Corequisite, PSY 3101. Fall, Spring, Summer.

PSY 3113. Research Design in Psychology  An introduction to psychological research with emphasis on the critical functions and limitations of both experimental and non-experimental designs, ethics, measurement, and statistical analyses of relevance. Prerequisites, PSY 2023 and PSY 3103. Fall, Spring.

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

PSY 3123. Experimental Methods in Psychology  An in-depth consideration of the ethical application of experimental design and methods toward a causal analysis of behavior. Emphasis is on ethical issues directly relevant to control procedures and researcher conduct and bias and developing skills necessary to recognize and utilize the components of experimental design and to interpret and evaluate results. Prerequisite, PSY 3113; Corequisite, PSY 3121. Fall, Spring.

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An interdisciplinary Overview of the history of psychology and recent developments.

**PSY 3823. History of Psychology**

- 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 3434. 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 3436. 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 ELED 3603 and screening into the Teacher Education Program through 4 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. 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. 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. 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, ECH 2002, ECH 2013, ECH 2022, ECH 2023. Fall, Spring, Summer.

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ECH 3023. Assessing and Evaluating Student Behavior Provides students with a set of measurement and evaluation skills. Attention will be focused on both standard-ized and teacher constructed instruments. Must be admitted to the Teacher Education Program. Fall, Spring, Summer.

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. Prerequisites, ECH 2002, ECH 2013, ECH 2022, ECH 2023, ECH 3013, ECH 3043, ECH 3073, ECH 3083, ELSE 3643. 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 2002, ECH 2013, ECH 2022, ECH 2023. 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 2002, ECH 2013, ECH 2022, ECH 2023, ECH 3013, ECH 3034, ECH 3073, ECH 3083, and ELSE 3643. Fall, Spring, Summer.

ECH 3063. Individualizing Programs for Children and Families Methods for indi-vidualizing 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 2002, ECH 2013, ECH 2022, ECH 2023, ECH 3013, ECH 3043, ECH 3073, ECH 3083, ELSE 3643. Fall, Spring, Summer.

ECH 3073. Children, Families, and Community Relations: Field Experiences II Provides 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 2002, ECH 2013, ECH 2022, ECH 2023, ECH 3013, ECH 3043, ECH 3073, ECH 3083, ELSE 3643. 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 standard-ized and teacher constructed instruments. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2002, ECH 2013, ECH 3013, ECH 3043, ECH 3073, ECH 3083, ELSE 3643. Fall, Spring, Summer.

ECH 3036. 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 preschool-ers. Prerequisites, ECH 2013, 2023. Spring.

ECH 3013. 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. Prerequisites, ECH 2013, ECH 2023. 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, ECH 2002, ECH 2013, ECH 2022, ECH 2032, ECH 2033, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3093, ELSE 3643, RDNG 3203. 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, ECH 2002, ECH 2013, ECH 2022, ECH 2023, ECH 3013, ECH 3033, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3093, ELSE 3643, RDNG 3202. Corequisites, RDNG 4403, ECH 4012, ECH 4013, ECH 4043. 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, ECH 2002, ECH 2013, ECH 2022, ECH 2023, ECH 3013, ECH 3033, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3093, ELSE 3643, RDNG 3202. Corequisites, RDNG 4403, ECH 4012, ECH 4013, ECH 4043. 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. Prerequisites, ECH 2002, ECH 2013, ECH 2022, ECH 2023, ECH 2031, ECH 3013, ECH 3033, ECH 3043, ECH 3053, ECH 3073, ECH 3083, ELSE 3643, RDNG 3203. Fall, Spring.

ECH 4061. Early Childhood Education Symposium A symposium with an identi-fied theme related to current events or issues in the field of early childhood education. Designed for early childhood professionals. May be repeated. Summer.

ECH 4063. Social Foundations of Education Develops a basic understanding of the foundations of the educational function in American society. Emphasis on the his- tory, philosophy, and professional aspects of teaching. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2002, ECH 2013, ECH 2022, ECH 2023, ECH 3013, ECH 3033, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ELSE 3643, RDNG 3203. 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.

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ELED 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. Prerequisites, ECH 3003, 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. Prerequisites, ECH 3003, ECH 3613, Corequisite, ECH 4613. 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. 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. Prerequisites, ECH 4623. Summer.

ECH 480V. Special Topics
Current subjects of interest in Early Childhood Education professionals with appropriate subtitles. Demand.

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 3093 and screening into the Teacher Education program. Fall, Spring, Summer.

MLED 2022. Introduction to Teaching
Purpose 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. Fall, 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 tradebooks 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. Spring, Summer.

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. A minimum of 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.

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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. 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.

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.
EDLA 4633. Methods and Materials for Teaching Second Languages  
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. Cross listed as LNG 4633. 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 affective techniques appropriate to secondary school students. Opportunities to develop behavioral objectives, present demonstrations, plan rehearsals, and more. Must be admitted to the Teacher Education Program. Fall.

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.

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__ __)

TIBI 4825. BIOLOGY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Ten 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.

TIBU 4826. BUSINESS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Twelve 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  
Twelve semester hours. Full semester of 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  
Twelve semester hours. Full semester of 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  
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

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

TIPE 4825. PHYSICAL EDUCATION TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Ten semester hours. Full semester teaching internship. Fall, Spring.

TIPE 4826. PHYSICAL EDUCATION TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Twelve semester hours. Full semester of 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  
Twelve semester hours. Full semester teaching internship. Fall, Spring.

TIBI 4826. BIOLOGY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Twelve semester hours. Full semester of 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  
Twelve 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  
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

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

TMU 4826. MUSIC TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

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

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

TPH 4826. PHYSICS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL  
Twelve semester hours. Full semester of teaching internship. Fall, Spring.
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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 2202</td>
<td>Civil Engineering Presentations</td>
<td>C or better in CE 2223</td>
<td>An introduction to computer aided design, CAD, for civil engineers with applications in civil engineering drawings. Different types of civil engineering drawings will be developed and presented in the course. Prerequisite, C or better in CE 2223. Spring.</td>
</tr>
<tr>
<td>CE 2223</td>
<td>Plane Surveying</td>
<td>C or better in MATH 1033 or equivalent</td>
<td>Theory and practice of plane surveying. Introduction to route design. Lecture two hours, laboratory four hours per week. Prerequisite, C or better in MATH 1033 or equivalent. Fall.</td>
</tr>
<tr>
<td>CE 3213</td>
<td>Structural Analysis I</td>
<td>C or better in ENGR 2403</td>
<td>Analysis of determinate and indeterminate structures and stresses, shear and moment diagrams, influence lines and moving loads, and deflection calculations. Lecture three hours per week. Prerequisite, C or better in ENGR 2403. Corequisite, ENGR 2413. Spring.</td>
</tr>
<tr>
<td>CE 3223</td>
<td>Civil Engineering Materials</td>
<td>C or better in ENGR 2413</td>
<td>Theory and application of materials used in civil engineering. Aggregate testing, concrete testing, concrete mix design, asphalt testing, and asphalt mix design. Lecture two hours, laboratory three hours per week. Prerequisite, C or better in ENGR 2413 and 2441. Fall.</td>
</tr>
<tr>
<td>CE 3233</td>
<td>Structural Analysis II</td>
<td>C or better in CE 2202 and CE 3213</td>
<td>Use of finite element modeling for analysis of structures. Study of ASCE 7-XX live, dead, wind, and seismic loadings and their applications in finite element modeling. Lecture three hours per week. Prerequisites, C or better in CE 2202 and CE 3213. Fall.</td>
</tr>
<tr>
<td>CE 3253</td>
<td>Engineering Hydrology</td>
<td>C or better in ENGR 3473</td>
<td>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.</td>
</tr>
<tr>
<td>CE 3263</td>
<td>Introduction to Environmental Engineering</td>
<td>C or better in MATH 2204</td>
<td>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, C or better in ENGR 2403 and ENGR 3473. Spring.</td>
</tr>
<tr>
<td>CE 3273</td>
<td>Water and Waste Systems</td>
<td>C or better in CHEM 1013</td>
<td>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.</td>
</tr>
<tr>
<td>CE 4213</td>
<td>Introduction to Finite Element Analysis</td>
<td>C or better in ENGR 2413</td>
<td>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.</td>
</tr>
<tr>
<td>CE 4223</td>
<td>Transportation Engineering</td>
<td>C or better in CE 2202</td>
<td>Principles of highway design, pavement designs, highway economics, traffic theory and other areas related to traffic engineering. Introduction to the basic concepts of public policies and public administration in transportation planning. A highway design project is required. Prerequisite, C or better in CE 2202. Dual listed as CE 5223. Spring.</td>
</tr>
<tr>
<td>CE 4233</td>
<td>Foundation Engineering</td>
<td>C or better in CE 4253</td>
<td>Prediction of soil variation, soil investigations, stress distribution and bearing capacity, settlement analysis and foundation performance. The design and analysis of retaining structures and lateral earth pressures, shallow foundations, pile foundations. One foundation design project is required. Prerequisite, C or better in CE 2202. Corequisite, CE 4253. Dual listed as CE 5233. Spring.</td>
</tr>
<tr>
<td>CE 4243</td>
<td>Reinforced Concrete Design</td>
<td>C or better in CE 3213</td>
<td>Analysis and design of beams and slabs for bending and shear, reinforcement placement, deflection calculations, and column analysis. Prerequisite, C or better in CE 3213. Dual listed as CE 5243. Fall.</td>
</tr>
<tr>
<td>CE 4251</td>
<td>Soil Mechanics Laboratory</td>
<td>Corequisite, CE 4253</td>
<td>Experiments in analysis of soil systems involving index properties, compaction, compressibility and shear strength. Corequisite, CE 4253. Fall.</td>
</tr>
<tr>
<td>CE 4253</td>
<td>Soil Mechanics Physical properties of soils as used in design, specific</td>
<td>C or better in CE 3253</td>
<td>Physical properties of soils as used in design, specific gravity, grain size distribution, elasticity, permeability, compressibility, consolidation and shear strength. Corequisites, ENGR 3473 and CE 4251. Dual listed as CE 5253. Fall.</td>
</tr>
<tr>
<td>CE 4263</td>
<td>Water and Waste Treatment</td>
<td>C or better in CE 2223</td>
<td>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.</td>
</tr>
<tr>
<td>CE 4273</td>
<td>Advanced Surveying</td>
<td>C or better in CE 2223</td>
<td>Introduction to Civil Engineering Individually directed projects 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.</td>
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Electrical Engineering (EE)

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<tbody>
<tr>
<td>EE 1303</td>
<td>Introductory Electrical Engineering Practicum</td>
<td></td>
<td>Introduction to engineering and electrical engineering by branch and function including analysis, design, research, and development. Engineering professionalism and infrastructure. Introductory electrical 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.</td>
</tr>
<tr>
<td>EE 3303</td>
<td>Semiconductor and Optoelectronic Materials and Devices I Laboratory</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>EE 3313</td>
<td>Electric Circuits</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

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 3332. 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. Corequisite, EE 3373. 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 and tools and issues. Prerequisites, C or better in 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 3403. 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, C or better in MATH 4403 and EE 3343. Dual listed as EE 5303. 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 3323. 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 and programmable logic controller course for junior and senior level engineers. A survey of small computers and their engineering functions including control, sensing, and computation. The concept of using control programming languages is 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. Corequisite, 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 in EE 3401. Spring, odd.

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  Experimentation with advanced digital electronic systems and introduction to microprocessor and mini computer systems including architecture, programming, interfacing, and design applications. Prerequisite, C or better in EE 3331 or EE 3401. Corequisite, EE 4383. Demand.

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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, z transforms, 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. Metalization 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 and Optoelectronic Materials and Devices II Laboratory  
Continuation of EE 3303. Advanced semiconductor characterization, processing, device fabrication, metalization, and packaging. The second half of the course will involve original experimentation culminating in a comprehensive manuscript in journal format. Prerequisite, C or better in 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.

Engineering (ENGR)

ENGR 2403. Statics  
Fundamental principles of engineering mechanics, statics, friction, internal forces, 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 materials in tension, compression, torsion, and bending. Allowable stress, combination loading, stress and strain transformation, and beam deflection techniques introduced. Prerequisites, 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, ENGR 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 2304. 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  
Fundamental concepts of engineering economy, management, and basic business concepts. 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 and ENGR 2403. Fall, Spring, Summer.

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. Requires consent of instructor. Demand.

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.

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ENGR 4413. Engineering Problem Solving Application of high-level mathematical tools, along with scientific/engineering principles, towards solving engineering problems in various disciplines such as mechanical, electrical, and civil engineering. Prerequisites, C or better in both MATH 4403 and ENGR 4453. Fall.

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. Prerequisites, C or better in ENGR 3423, ENGR 3433, ENGR 3443, and 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.

ENGR 4703. Environmental Safety and Health Engineering Survey and analysis of contemporary environmental, safety, and health-related topics pertinent to engineering and technology applications and practice, including technical, regulatory, economic, and other non-technical aspects. Prerequisites: Senior undergraduate status in the College of Engineering or College of Science and Mathematics, or admission into the ASU Environmental Science graduate program or Engineering Management graduate program. Dual listed as ENGR 5703. 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.

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. Spring.

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.

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COLLEGE OF FINE ARTS

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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 children's 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, First Year Experience for Art Majors. 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. Fundamental elements of drawing, including skill, observation, material and technique, First Year Experience for Art Majors. 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.

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STUDIO ART.  Covers intaglio, relief, silkscreen, and other processes of printmaking.

ART 3033. Drawing III  GRAPHIC DESIGN.  Continuation of development of drawing skills and concepts. Students at this level should have well developed drawing skills and good understanding of drawing principles. Untouched life models will be provided when and 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 1033 and 1043. 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 1033 and 1043. May be repeated for credit. Fall, Spring, Summer.

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. Fall.

ART 3083. Printmaking  STUDIO ART.  Covers intaglio, relief, silkscreen, lithography and contemporary printmaking techniques. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisites, ART 1013, ART 1033, ART 1043. 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 Graphic Design class. Additionally, the Art Major Core must be completed prior to the BFA Review. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisites, ART 1013, ART 1023, ART 1033, ART 1043. May be repeated for credit. Fall, Spring.

ART 3103. Sculpture  STUDIO ART.  Studio practice and experimentation in three dimensional design. Clay, wood, metal, and other materials are used. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. 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. 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. Prerequisites, ART 3413 and ART 3423. May be repeated for credit. Fall, Spring.

ART 3403. Photography  STUDIO ART.  An introductory study of photographic equipment, techniques, and processes both film based and digital. 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 1033, ART 1043. 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 1033, ART 1043, ART 2423. Fall.

ART 3432. 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. Prerequisites, ART 1013, ART 1033, ART 1043, ART 2423. May be repeated for credit. Fall.

ART 3433. Digital Illustration  GRAPHIC DESIGN.  Introduction to illustration using 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. Students enrolled in the BFA programs must pass the BFA Review prior to enrollment in 4000 ART courses. Prerequisites, ART 1013, ART 1033, ART 1043, ART 2423. 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 2423. Spring odd.

ART 3873. 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 STUDIO ART. 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. Prerequisite, ART 3093 and ART 3330 or permission of instructor. Fall, Spring.

ART 4103. Advanced Sculpture STUDIO ART. 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 4230. Exhibition Preparation STUDIO ART. Focus on information pertaining to the preparation for ART 4330. Prerequisite, ART 3330, and minimum GPA of 2.75 in all work with ART, ARTH, or ARED prefix, and permission of department chair. Students MUST meet the prerequisite requirements or they will not be allowed to register for this course. Fall and Spring.

ART 4330. Senior Exhibition STUDIO ART. 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 STUDIO ART. An opportunity for the studio oriented student to explore and develop techniques and concepts in both two and three dimensional media. Areas not covered by other existing studio courses will be emphasized. 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 and ART 3430; 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. Film Based Photography STUDIO ART. Advanced studies of photographic equipment, techniques and processes with emphasis on personal expression. Requires three hours of lab per week. May be repeated for credit. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. Prerequisite, ART 3330 and ART 3430; or permission of instructor. Fall.

ART 4453. Advanced Photography STUDIO ART. Advanced studies in photography as fine art, includes silver and nonsilver based processes with emphasis on aesthetic expression. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. May be repeated for credit. Prerequisite, ART 4443. Fall, even.

ART 4490. Graphic Design Portfolio GRAPHIC DESIGN. Capstone course required for all graduating BFA, Graphic Design students. Preparation of portfolio of graphic design solutions that demonstrate the student’s 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. Prerequisites, minimum GPA of 2.75 in all course work with an ART, ARTH, ARED prefix. Fall, Spring.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
The online bulletin can be accessed at [http://Registrar.astate.edu/bulletin.php](http://Registrar.astate.edu/bulletin.php)

**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.

**ARTH 4503.** History of Photography  
History, aesthetics, and appreciation of photography. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. 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. Spring, even.

**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 permission of instructor. 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. Spring, odd.

**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 permission of instructor. Spring, odd.

**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 permission of instructor. 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 and ARTH 2593 or permission of instructors. Fall, even.

**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 4610.** Senior Thesis  
Provide students the opportunity to research and write an art historical essay that proves an original thesis; required of all BA in Art, Art History emphasis students; to be completed in the final semester. Permission of instructor required; 2.75 GPA in all ART/ARED/ARTH courses. Fall and Spring.

**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. Fall, odd.

**ARTH 4623.** 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, ARTH 2583 AND 2593, or permission of instructor. Spring, odd.

**ARTH 4633.** 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 5633. Prerequisites, ARTH 2583 and ARTH 2593 or permission of instructor. Spring, even.

**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.

**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  
Twelve semester hours. Full semester teaching internship. Fall, Spring.

**DEPARTMENT OF MUSIC**

**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.

MUS 1241. Guitar Class II
Current philosophies and practices in guitar playing. The course will focus on learning basic chords, conventional strumming techniques and finger picking, and notes in finger position as well as the general technique of guitar playing. Special course fees may apply. Fall.

MUED 4633. Music Recording Techniques
Music recording techniques designed for music educators. Special emphasis on essential electronic equipment, its use and maintenance. Demand.

MUS 1360. University Singers
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. 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, Spring.

MUS 1370. Wind Ensemble
Large Ensembles Choral and instrumental. Non credit course. Membership is open to all interested 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 1371. Wind Ensemble
Large Ensembles Choral and instrumental. Non credit course. Membership is open to all interested 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 1380. 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, Spring.

MUS 1381. 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, Spring.

MUS 1390. Concert Choir
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, Spring.

MUS 1391. Concert Choir
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, 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. 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 I and Aural Theory I. Non music majors admitted with permission of instructor. Special course fees may apply. Fall. Spring, Summer.

MUS 1703. Introduction to Musician'ship  Fundamental and the application of music theory to improvisation in jazz and American popular music. Open to anyone who uses the grand staff to read western music notation. Demand.

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. A 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 2303. 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 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 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.

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, even.

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 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. Fall, Spring.

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. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

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 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 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.

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 3551. High Brass Techniques PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in performance and pedagogy. Two laboratory periods per week. Special course fees may apply. Fall.

MUS 3561. 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 3632. 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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
MUSP 4113, Performance Applied Music
One hour credit. One half hour lesson per week. Fifteen 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.

MUS 3111, Performance Applied Music
One hour credit. One 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 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, Senior Recital
One half. Student will perform a program equivalent to at least one half of a full solo recital. Fall, Spring.

MUSP 4121, Senior Recital
Student will perform a full length solo performance. Fall, Spring.

MUS 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.

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. Demand.

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

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

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 5 BC 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.

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

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, 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. Pre-requisite, 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.

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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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, conceptualization 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 An 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. Demand.

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 corrective 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.
For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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 4093. 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 instructors 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 3223 or AGRI 4233 or TECH 3773 and TECH 4813. Fall.

SOC 4353. Sociology of Aging Survey of theories, methodologies, concepts, and 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. 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.

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.

The online bulletin can be accessed at [http://registrar.astate.edu/bulletin.php](http://registrar.astate.edu/bulletin.php)

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.

EDEN 4653. Methods and Materials for Teaching English in the Middle School
Methods and materials for teaching English in 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.

English (ENG)

ENG 2113. Introduction to Fiction
Short poetry and drama with emphasis on method and materials teaching English (EDEN)

ENG 0203. Composition for Non-Native Speakers II
Designed to help non-native students develop their ideas into well organized, well developed and effective paragraphs and essays based on major rhetorical patterns. Grammar, sentence structure, and the complete writing process are emphasized. 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. Composition for Non-Native Speakers I
Comprehensive advanced grammar, sentence structure, and vocabulary for students scoring under 500 on the TOEFL. Fall, Spring.

ENG 2003. Introduction to World Literature I
Introduction to the analysis and interpretation of literary works from several historical periods ranging from the Renaissance to the present. Fall, Spring.

ENG 2013. Introduction to World Literature 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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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 Folklife 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 post-structuralism. 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.

ENG 4223. Sixteenth-Century Literature English literature during the sixteenth century. Selected continental writings may be included. Spring, even.

ENG 4233. Seventeenth-Century Literature English literature during the seventeenth century. Selected continental writings may be included. Fall, even.

ENG 4251. 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 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. Demand.

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.

Philosophy (PHIL)

PHIL 1013. 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 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 Pre-Socratics 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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
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 1003 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 1003 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.

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 4763. Philosophy of Sex
Explores the concept of sexual activity and the implications of various theories of sexual activity to our understanding of rape, sexual harassment, pornography, sexual fidelity, parenthood, and various other important contemporary sexual issues. Spring, 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
Twelve semester hours. Full semester of 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 3042. Asian History Since 1500
WORLD AND EUROPEAN HISTORY. Survey of Asian history from 1500 to the present, with a focus on interactions and connections within Asia, with the West and with the larger world. Fall, odd.

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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
HIST 3123. Latin America, The Colonial Period  WORLD AND EUROPEAN HISTORY. From the pre-Columbian Indian civilization to the era of independence. Fall, odd.


HIST 3173. Classical Mediterranean Civilization  WORLD AND EUROPEAN HISTORY. Major developments of the Greco-Roman 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 to 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. Origins 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 twelfth 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.

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 PSYC 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 4143. The Rise of Modern China. WORLD AND EUROPEAN HISTORY. Major developments in Chinese history with emphasis on the twentieth century. Fall, 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 Caesar's reconnaissance to the Glorious Revolution. Fall, even.

HIST 4223. History of Great Britain. 1688 to 1992. 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 4233. History of Mexico. WORLD AND EUROPEAN HISTORY. Mexico and its role in world affairs since 1648, with emphasis on the period from Bismarck to Hitler. Fall, even.

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 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 and 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 4483. History of Sexuality in America. UNITED STATES HISTORY. Forces which have shaped American beliefs and practices concerning sexuality, and the roles played by gender, race and class. Dual listed as HIST 5483. Fall, odd.

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 4533. History of Medicine. WORLD AND EUROPEAN HISTORY. Worldwide 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 4603. 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.

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)


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 1103. Making Connections in Politics and Law. An introduction to the study of law and politics for first year students making the transition to college life; satisfies credit requirement for a First Year Experience. Fall.


POSC 2103. Introduction to United States Government. AMERICAN POLITICS. The constitution, government, and politics of the United States. Fall, Spring, Summer.

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
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 3023. American Constitutional Law PUBLIC LAW. Constitutional theories as expounded in decisions of the Supreme Court since 1789. Questions such as the nature of law and political theories underlying Supreme Court decisions will be investigated. Fall.

POSC 3033. Legal Research, Writing and Advocacy PUBLIC LAW. 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 PUBLIC LAW. 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 3073. Civil Liberties PUBLIC LAW. Judicial and statutory interpretations of the fundamental liberties contained in the U.S. Constitution. Spring.

POSC 3083. Criminal Law and the Constitution PUBLIC LAW. An examination of state and federal police powers and how they are regulated by the Constitution and statutes. Fall, Spring, Summer.

POSC 3113. American Municipal Government AMERICAN POLITICS. Types of governments in municipalities of the United States. Fall, Spring.

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 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 sub-Saharan 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 3243. Religion and Politics COMPARATIVE POLITICS. A comparative study of religion and politics. Fall, odd.

POSC 3303. Introduction to International Politics INTERNATIONAL POLITICS. Various approaches to the study of international politics. Fall.

POSC 3313. American Foreign Policy INTERNATIONAL POLITICS. Development, formation, goals, administration, and realities of American foreign policy in modern times, with emphasis on current issues. Spring.

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 proliferation. 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 3453. Modern Political Theory POLITICAL THEORY. Writings of modern political philosophers such as Machiavelli, Hobbes, and Rousseau. 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 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 4143. Public Opinion and Public Policy AMERICAN POLITICS. The function of public opinion in political systems, and methods for revealing public preferences, with principal focus on the US case. Dual listed as POSC 5143. Spring, odd.

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

The online bulletin can be accessed at http://registrar.astate.edu/bulletin.php
POSC 4453. Analysis of Contemporary Political Theory

POSC 4503. Introduction to Public Policy Studies

POSC 4313. International Organization

AR 2036. Accelerated Intermediate Arabic

DEPARTMENT OF WORLD LANGUAGES AND CULTURES

Arabic (AR)

AR 1036. Accelerated Elementary Arabic

AR 2036. Accelerated Intermediate Arabic

Chinese (CHIN)

CHIN 1013. Elementary Chinese I

CHIN 2023. Intermediate Chinese I

CHIN 2036. Accelerated Intermediate Chinese

EDLA 4633. Methods and Materials for Teaching Second Languages

EDLA 4643. Second Language Acquisition

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
EDLA 4663. Teaching People from Other Cultures  Study of concepts and strategies that help teachers employ culture and language of ESL students as vehicles for language acquisition. Course goals include theories/practice in curriculum design and teaching that promote learning through understanding of cultural differences and societal contexts. To apply this course to the TESOL endorsement and foreign language teaching licensure curriculum at ASU, students must be admitted to the Teacher Education Program or hold a current teaching license. Cross listed as WLAN 4663. Spring.

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 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 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 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. Reading and Composition in French  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.
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 4203. Advanced Oral Communication  Structured practice of advanced French speaking skills with emphasis on communicating information, narrating in major time frames, and developing facility in formal and specialized situations. Prerequisite, FR 3183 or consent of instructor. Spring, odd.
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. Fall, Spring, Demand.
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 489V. 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 developing basic language skills. Fall.
GER 1023. Elementary German II  Continuation of GER 1013. Spring.
GER 1036. Accelerated Elementary German I and II  Intensive one semester introductory German course that covers the material of instruction equivalent to Elementary German I and II. Fall and 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 2036. Accelerated Intermediate German I and II  Intensive one semester intermediate German course that covers the material of instruction equivalent to Intermediate German I and II. Prerequisite, GER 1023 or consent of department chair. Fall, Spring.

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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.

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 of 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 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 3463. Advanced Grammar  Grammatical components and structures that will allow the student to move toward complex sentences in Spanish. 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 3473. Reading and Composition  Development of expository writing skills through the examination of texts. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Fall, Spring.

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 4203. Advanced Oral Communication  Structured practice of advanced Spanish-speaking skills with emphasis on communicating information about practical and factual matters, narrating and describing in major time frames, and using discourse of paragraph length and substance. Prerequisite, SPAN 3183 and SPAN 3463 or consent of instructor. Spring.

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 469V. 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. Pre- requisite, 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.

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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.

Swahili (SWA)

SWA 1036. Accelerated Elementary Swahili  Introduction to Swahili language and culture. Emphasis is placed on basic communication training in Swahili, accurate pronunciation, basic oral comprehension skills, and cultural familiarity with East African cultures, traditions and practices. Demand

SWA 2036. Accelerated Intermediate Swahili  Continuation of SWA 1036. Further development of oral communication skills in Swahili, with increased emphasis on reading, writing, and building cultural familiarity with East African cultures, traditions and practices. Prerequisite, SWA 1036. Demand

World Languages (WLAN)

WLAN 4633. Methods and Materials for Teaching Second Languages  Knowledge and practice of instructional strategies and techniques associated with a proficiency based approach to second 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. Cross Listed EDLA 4633. Fall.

WLAN 4643. Second Language Assessment  Study of second language assessment techniques and procedures. Course goals include construction and critiques of instruments for assessing proficiencies in listening, speaking, reading, writing. Cross listed as EDLA 4643. Fall.

WLAN 4653. Second Language Acquisition  Explores theories and research in the field of second language acquisition, with emphasis on the application of concepts to classroom instruction in language learning. Required for teacher licensure endorsement in TESOL. Cross listed as EDLA 4653. Spring.

WLAN 4663. Teaching People from Other Cultures  Study of concepts and strategies that help teachers employ culture and language of ESL students as vehicles for language acquisition. Course goals include theories/practice in curriculum design and teaching that promote learning through understanding of cultural differences and societal contexts. Cross listed as EDLA 4663. Spring.

Teaching Internship (TILA)

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  Twelve semester hours. Full semester of teaching internship. Fall, Spring.

TILA 4836. Practicum in Teaching ESOL  A focus on learner behavior, classroom dynamics, teacher/student interactions, techniques used in the classroom, and instructional procedures with emphasis shifting from theory to practice. Seminars and student teaching will emphasize integration of theoretical foundations with practical applications. Prerequisite, Department Chair approval. Fall, Spring, Summer.

COLLEGE OF NURSING AND HEALTH PROFESSIONS

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

DEPARTMENT OF COMMUNICATION DISORDERS

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 BID 2003 and 1 Human Anatomy and Physiology I and Lab prior to CD 2104 Anatomy and Physiology of Communication. 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.

CD 3113. Aging in Communication  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.


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.

For up-to-date Bulletin information, visit http://registrar.astate.edu/bulletin.php
A study of speech as a time related adaptive behavior.

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 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 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. Neurological Bases and Disorders of Human Communication
A survey of the normal structure and function of the nervous system in human communication and resulting disorders that occur due to neurological dysfunction. Admission to the Communication Disorders program required. 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 3503 or permission of instructor. Fall.

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 4753. Articulation and Phonological Disorders
Characteristics 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 4873. Research Problems in Communication Disorders
Individual research problems in communication sciences and disorders arranged in consultation with the instructor. Restricted senior level students in the Department of Communication Disorders. Prerequisites, PSY 3103 and 3101, or SOC 3383 and 3381, or SCOM 3363, or STAT 3233. Demand.

CD 489V. Independent Study in Communication Disorders
Student may engage in studying specific problems in Communicative Disorders. May not be repeated. Prerequisite, Senior standing and approval from professor and department chair. Demand.

DEPARTMENT OF CLINICAL LABORATORY SCIENCES

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.

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.

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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 2532. 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 2533. Clinical Immunology and Serology  
Performance of laboratory procedures necessary to function in the serology section of a clinical laboratory. Prerequisites, BIO 2201 and BIO 2203. 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, 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  
Discusses the basic principles of hematologic disorders, causes, laboratory results, and treatment. Prerequisites, CLS 2523 and CLS 2521. Spring.

CLS 2561. Immunohematology 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. Immunohematology I  
Discussion of the principles involved in compatibility testing, antigen and antibody identification, donor blood acquisition and preparation, and a basic discussion of relevant diseases. Prerequisites, CLS 2523, 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 3112. 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 3221. 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 upon symptomology and the microscopic examination 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 3532. 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 3542. 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  
The 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 3513, CHEM 3101, and CHEM 3103. Spring.

CLS 410V. Special Problems in Clinical Laboratory Science  
Specified 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 411I. Clinical Issues and Topics in Clinical Chemistry II  
Web-based Case Study investigations into the complex analysis of body fluids with advanced level content designed for critical thinking in the development, application, analysis, integration, synthesis, and evaluation of clinical chemistry concepts and theories. A review of mandatory OSHA laboratory safety standards is also included. Prerequisites, CHEM 3101, CHEM 3103, CLS 2541, CLS 2543. 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.

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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 analysis. 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 of 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.

CLS 4331. Clinical Issues and Topics in Immunohematology II WEB-based Case Study approach for advanced level perspective in the development of immunohematology. Emphasis is placed on surface anatomy, musculoskeletal 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.

DEPARTMENT OF PHYSICAL THERAPY

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. Demand.

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.

Health Professions (HP)

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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 2322. 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.

DEPARTMENT OF MEDICAL IMAGING AND RADIATION SCIENCES

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 2210. 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 458V. 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.

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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, odd.

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.
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, affects on the MRI image, patient care and assessment. Summer.

RSMR 4813. MRI Physical Principles II Exploration of imaging options, spin echo, fast spin echo, STIR, FLAIR, gradient imaging, and echo planar imaging. Includes a comprehensive analysis of image artifacts. Prerequisite, RSMR 4803. Spring.

RSMR 4823. Data Acquisition and Processing A study of the patient coordinate system and spatial localization, magnetic resonance imaging gradient system, data manipulation, and quality control practices in MRI. Prerequisites: RSMR 4803 MRI Physical Principles I. 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 4533. Nuclear Medicine Clinical Education III The course will provide advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in nuclear medicine procedures. Prerequisites, Good standing in Nuclear Medicine program. Summer.

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.

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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 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 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 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. Spring.

RST 4322. Radiation Therapy Physics II  The course will review and expand concepts and theories in the Radiation Physics I course. Prerequisite, RST 4312 Radiation Physics I and good standing in the Radiation Therapy program. Fall.

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. Spring.

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.

Diagnostic Medical Sonography (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. Corequisites, RSU 4214. Prerequisites, RSU 4131, 4122, and 4112. Fall.

RSU 4322. OB-GYN Sonography Laboratory  Laboratory scanning of specific anatomy and pathology necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonography. Corequisites, RSU 4613 and 4323. Prerequisites, Successful completion of the 1st Summer and Fall semesters in the DMS program. Spring.

RSU 4332. Physics and Instrumentation II  This course is a continuation of RSU 4322. 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 extracranial 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 4533. 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.

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RSU 4622. Obstetric Sonography II
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.

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.

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 experiences 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 vertebra 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 2203 and BIO 1201. Spring.

RT 1323. Principles of Exposure I  Coordinated classroom laboratory study of radiation physics associated with x-ray production, interactions between ionizing radiations and matter, and associated health physics issues. Prerequisite, PHYS 2133 Survey of Physics for Health Professions. Fall.

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 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.


RT 3322. 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.

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SCHOOL OF NURSING

Nursing (NRS)

NRS 1123. Making Connections Nursing  Open to incoming freshmen only, this course will provide both an introduction to the future 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, NRS 1222, NRS 3392, NRS 3391 or Corequisites, NRS 1252, NRS 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 NRS 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, Summer.

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 2292, NRS 3391, NRS 1235, NRS 1243, and NRS 1252. Corequisites, NRS 2213, NRS 2224, and NRS 2226. Spring.

NRS 2213. Nursing II Medical Surgical  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. Spring.

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 NRS 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, NRS 2244, NRS 2272, Prerequisites, BIO 2103, BIO 2101, NRS 1235, NRS 1252, NRS 2212, NRS 2213, NRS 2262, NRS 1243, NRS 2244. Fall.

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NRS 233. Nursing III: Medical Surgical  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 2333, NRS 2262, NRS 2244, NRS 2273. Prerequisites, BIO 2103, BIO 2101, NRS 1235, NRS 1252, NRS 2212, NRS 2213, NRS 2252, NRSP 1243, NRSP 2224. Fall.

NRS 225. Nursing III: Role Development  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 2251 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 2335, NRSP 2272, and NRSP 2244. Fall.

NRS 2311. NCLEX Preparation  An introduction to the essential problems of skill 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, NRS 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 2392. 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. Prerequisite or corequisite, BIO 2223, BIO 2221, and NRSP 2391, NRS 2314 and NRSP 1422 for BSN Students, or NRS 1214 and NRSP 1222 for AASN students. Fall, Spring, Summer.

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.

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 NRS 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 2392, NRS 2433, NRSP 2391, 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 or 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, NRS 2343, NRS 2392 and NRSP 2391. Fall.

NRS 3325. Nursing Care Systems II  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 334. 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 Promotion majors. Other majors allowed by consent of instructor. Prerequisites, PSY 2013. Fall. Spring, Summer.

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, NRS 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. Term.

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 2392, NRSP 2391, NRS 3433, NRS 4433, and NRS 4425. Corequisites, NRS 3423, NRSP 4433, and NRS 4433. 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 2392, NRSP 2391, NRS 2433, NRS 3443, and NRS 4432. Corequisites, NRS 3433, NRS 3443, and NRS 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 2392, NRSP 2391, NRS 2443, NRSP 2432, NRS 3422, NRS 3433, NRS 3443, and NRS 3433. Corequisites, NRS 3433, and NRS 3433. 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, NRS 2423, NRSP 1422, NRS 2392, NRSP 2391, NRS 2443, NRSP 2432, NRS 3422, NRS 3433, NRS 3443, and NRSP 3433. Corequisites, NRS 3023, NRSP 3453. Spring.

NRS 3477. 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 3433, NRSP 3433, and NRS 3463. Corequisites, NRS 3445 and NRSP 3453. Spring.

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 Instructor 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  Focuses on clients with chronic illness throughout the lifespan. Concepts of pharmacology and rehabilitation are integrated. Prerequisites, NRS 3345, NRSP 3355, NRS 3392. 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 NRS 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 NRS 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 major focus. Prerequisites, NRS 3345, NRS 3392, 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.

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 2392, NRSP 2391, NRS 2443, NRS 2432, NRS 3345, NRSP 3343, NRS 3343, NRS 3392 and NRS 3391. Corequisites, NRS 4443 and NRSP 4453. Spring.

NRS 4445. 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 2392, NRSP 2391, NRS 2443, NRS 2432, NRS 3345, NRS 3343, NRS 3423, NRS 3433, NRS 3443, NRS 3453. Corequisites, NRS 4443 and NRSP 4453. 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.

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NRSP 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.

NRSP 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.

NRSP 4523. Disaster Risk Identification  Identifies actions, communities, institutions and governments that 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.

NRSP 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.

NRSP 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.

NRSP 4553. HSOP Capstone  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. Dual listed as POSC 4553. 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 2392, and NRSP 2391. 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. Corequisites 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. An additional fee is assessed for this course for a communication assessment test. Spring.

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 2244. Corequisites, NRS 2235, NRS 2262, and NRSP 2272. A clinical laboratory fee will be assessed. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students. Fall.

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 childbirth 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 2391. Health Assessment Practicum  Practicum in which the clinical skills associated with NRS 2392 are developed and implemented. The student obtains health histories and performs physical examinations. A clinical laboratory fee will be assessed. Corequisite, NRS 2392. Fall, Spring, Summer.

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 2392, NRSP 2391, 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 hospital 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, NRS 3325 and prerequisite or corequisite, NRS 3345. Spring.

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 2392, NRSP 2391, NRS 2433, NRS 2432. Corequisites, NRS 3422, NRS 3343, NRS 3423. Fall.

NRSP 3453. Clinical Experience III  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 2392, NRSP 2391, NRS 2433, NRS 2432. Corequisites, NRS 3422, NRS 3343, NRS 3423. Fall.

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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 4263, 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 4323 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  Individual directed problems in Social Work. Must be arranged with the professor and approved by department chair. Demand.

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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 2202. 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 2222. 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. It is recommended this course be taken concurrently with BIO 2221. 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. 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 1303, 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.

BIO 3203. Pathophysiology The physiology of pathological disturbances and inheritable errors. Mechanism of disturbance, body compensating efforts, and adaptive responses of humans. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 2223 and BIO 2221, or BIO 3233 and BIO 3231. 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 3211. Human Structure and Function I Laboratory Two hours per week. 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 Fourhours 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 interrelationships 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 3532. 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 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 3013 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.

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BIO 4131. Cell Biology Lab 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, CHEM 1023 and CHEM 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 3013, BIO 3003, 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 2013 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.

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 the following courses, BIO 3312, BIO 4362, BIO 4653, BIO 3033, or BIO 3033. Permission of Instructor required. Spring, odd.

BIO 4332. Animal Histology Cells and tissues of the organ systems of vertebrates. Lecture two hours 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. Mammalogy Laboratory Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4352. Fall, even.

BIO 4352. Mammalogy 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 Field course in which principles of aquaculture are applied within several public and private enterprises. Intended for the student interested in wildlife, fisheries biology, and agriculture. Special course fees may apply. Prerequisites, BIO 4311 and BIO 4312. Summer.

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.

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BIO 4373. Animal Ecology  The relationship of animals to their chemical, physical, and
two hours per week. Special course fees may apply. Prerequisites, BIO 3023. Fall, odd.
BIO 4382. Parasitology  Parasites of vertebrates and plants, with emphasis on
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. Pre-
requisites, 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, zooseography, 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 permis-
sion 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 2084 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 4532. Aquatic Plants Laboratory  Four hours per week. To be taken concur-
rently with BIO 4531. Special course fees may apply. Fall, even every 4 years. Fall, odd.
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 con-
currently 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  Physicochemical conditions of fresh water, and their effects
on aquatic life, including plankton analysis and bottom fauna studies. Lecture three hours per week. Special course fees may apply. Prerequisite, 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, in-
cluding 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, BIO 3023
or permission of instructor. Spring, odd.
BIO 4621. Environmental Microbiology Laboratory  Laboratory and field investi-
gation 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.

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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 4122 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 4835. 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. Fall, odd.

BIO 4663. Wildlife Management Investigational Techniques  
Identification of wildlife problems, project design, interpretation and construction of wildlife maps, food habits 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.

BIO 4714. Dendrology  
A study of the systematics, nomenclature, morphology, phenology, geographic range, and natural history of woody plants with an emphasis on field recognition throughout the year. Dual listed with BIO 5714. Prerequisites, BIO 1501 and BIO 1503. Fall, even.

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. It is recommended that this course be taken concurrently with BIOL 1001. Fall, Spring, Summer.

BIOL 1033. Biology of Sex  
The 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  
Twelve 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 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.

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

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. Demand.

CHEM 1041. Fundamental Concepts of Chemistry Laboratory  Special course fees apply. Prerequisite or corequisite of CHEM 1043. Fall, Summer.

CHEM 1043. Fundamental Concepts of Chemistry  A one-semester chemistry survey course introducing selected fundamental concepts including dimensional analysis, mole concept, atomic and molecular structure, nomenclature, chemical reactions, thermochemistry, intermolecular interactions, gases, mixtures, kinetics, equilibrium and acid base chemistry. Fall, Summer.

CHEM 1052. Fundamental Concepts of Chemistry II  A continuation of CHEM 1043 with a focus on the role of chemistry in human body functions. Prerequisites CHEM 1043 and CHEM 1041. 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 1013. Demand.

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 1023 and CHEM 1013. 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 or 2194, 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 3128. 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 or MATH 2194, 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. Lecture 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.

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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 biochemical problems. Integrated lecture and laboratory format. Special course fees may apply. Prerequisite, CHEM 3054 and CHEM 4243. 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 Department. 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 4014, 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. Special course fees may apply. Prerequisite, CHEM 3054. Demand.

CHEM 4443. Advanced Biochemistry A continuation of CHEM 4243 biochemistry with a focus on anabolic metabolism and bioinformation processes vital in biological systems and current research in biochemistry and medical correlates. Dual listed as CHEM 5243. Prerequisite, CHEM 4243. Spring.

Forensic Science (FOSC)

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.

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 An overview of the history of life on earth, plate tectonics, and the geologic and historical development of landforms. Special course fees may apply. 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. Demand.

General Science (GSP)

GSP 3203. Science for Teachers Gives early childhood and middle school teachers an overview 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.

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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PHYS 1101. Introduction to Space Science Laboratory Two hours per week. Special course fees may apply. To be taken concurrent with PHYS 1101. 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 2073. This course will meet the General Education Requirements for Physical Science. Prerequisite, 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. Prerequisite, Physics 2034 or 2054. This course may be substituted for PHYS 2083 or PHYS 2084. Corequisite, MATH 2204. Fall, Spring.

PHYS 2054. General Physics I The essentials 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 2054 may be substituted. Special course fees may apply. 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 2044 or 2034. Fall, Spring, Summer.

PHYS 2071. Fundamental Physics 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 mechanisms, 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 3043. Atmospheric Dynamics A study of the physical dynamics of the atmosphere and the oceans and the interactions between the two. Topics to be discussed include basic atmospheric and geophysical fluid dynamics, An integrated laboratory component will have students build and analyze the local atmosphere. Prerequisite, PHYS 2034 or 2054. Spring.

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 man's cultural and scientific development. Special course fees may apply. Demand.

PHYS 3153. Mechanics Particle dynamics in inertial and accelerated reference frames. Newton's 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. Ampere's and Faraday's laws, and Maxwell's 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 Newton's 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  Maxwell's 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 X-ray diffraction, specific heats, free electron theory, and band approximation. Lecture three hours per week. Special course fees may apply. Prerequisite, 20 hours of physics. Demand.

PHYS 4553. Principles of Quantum Mechanics  Solutions of the Schrödinger 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.

General Science (SCI)

SCI 3003. Science in the Cinema  A study of the portrayal of science and scientists in a cinema throughout the last century. Students will study films and scientific literature to investigate the accuracy of these portrayals and their effect on society. Prerequisite, ENG 1013. Fall, Spring.

Teaching Internship (TI ___)


TICH 4826. Chemistry Teaching Internship in the Secondary School  Twelve semester hours. Full semester of teaching internship. Fall, Spring.


TIPH 4826. Physics Teaching Internship in the Secondary School  Twelve semester hours. Full semester of teaching internship. Fall, Spring.

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. OOP and Fundamental Data Structures  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. Algorithms and Advanced 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.

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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 Organization**  Basic principles of computer architectural design including instruction set principles, pipelining, instruction level parallelism, memory hierarchy, storage systems, and multiprocessor. 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**  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 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 4143. **Java Application Development**  Introduction to Java. In depth examination of applications including graphics, threading, database, networking, distributed system, and algorithms. Prerequisites, CS 3123, CS 3223, and CS 3233. Spring.

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 4911. **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 4923. **Scripting Languages**  Examination of scripting languages compared to conventional programming languages and construction of domain-specific solutions for common problems in GUI, networking and web programming. Prerequisite, CS 3113. Demand.

CS 492V. **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 493V. **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 560 or above on SAT, or a grade of C or better in MATH 0013 or Corequisite, MATH 1023. Fall, Spring, Summer.

MATH 1043. Finite Mathematics
Selected topics include linear systems, matrices, linear inequalities, linear programming, simplex method, probability, combinations and permutations, statistics and finance application. Prerequisites, MATH 1023. Demand.

MATH 1093. Making Connections Mathematics
Required course for 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 equations, linear programming, simplex method, probability, combinations, permutations, 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, C or better in MATH 2113. This course may not be used to satisfy general education mathematics requirement. Fall, Spring, Summer.

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, 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 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 or 630 or above on SAT, 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 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, Taylor’s Theorem, LHôpital’s 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 3033. 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. Prerequisites, C or better in both MATH 2113 and MATH 2123. Spring.

MATH 3123. 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, C or better in both 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
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
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 2214. Fall, Summer, even.

MATH 4563. Advanced Calculus II
Continuation of MATH 4553. Prerequisite, MATH 4553. Spring.

MATH 4581. Mathematics Seminar
Prerequisite, MATH 3303. Demand.

MATH 459V. Special Problems in Mathematics
Prerequisite, MATH 3303. Demand.

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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 4826. Math Teaching Internship in the Secondary School Twelve semester hours. Full semester of teaching internship. Fall, Spring.

INTERNATIONAL PROGRAMS

The frequency of course offerings 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.

International Programs (IP)

IP 1001. Foundations of English Foundations of English is an introductory course that provides students who have limited or no English language ability with the basics of English. Instruction is geared toward basic conversation, simple grammar, basic writing and reading, and simple sentence structure. Fall, Spring, Summer.

IP 1011. Survey of English I Students at this level participate in a variety of courses including pronunciation and oral communication, reading, writing, and grammar. The instruction given in these courses is at the high beginning level. The concepts and ideas presented in them aid students in building a solid foundation upon which their English language can develop, be built up, and expanded. Fall, Spring, Summer.

IP 1021. Survey of English II Students at level two progress to a higher level of difficulty and exposure to a broader range of language usage. They are also exposed to skills and tasks common in classrooms in American colleges and universities such as giving oral presentations and reports, writing paragraphs, and self-study. Fall, Spring, Summer.

IP 1031. Excursions in Academic English I This level begins pre-academic instruction. Students are exposed to content-based instruction (topic: Sociology). This course teaches practical skills in common classroom discourse, tasks, and activities. Emphasis is placed on developing note taking skills, answering short essay questions, test taking skills, etc. Fall, Spring, Summer.

IP 1041. Excursions in Academic English II Continuation of IEP 1031. Further development of pre-academic college skills taught through content-based instruction, practical activities and assignments that reflect current academic demands required at the undergraduate and graduate levels of instruction. Fall, Spring, Summer.

IP 1051. Academic Essentials for College This course provides rigorous studies which bring together all course work and provides practical application of learned skills. This course requires demonstration of synthesis and knowledge of the content presented in addition to application of these skills in completing presentations, projects, written reports, research, etc. Fall, Spring, Summer.

IP 1111. International Bridge Program The Undergraduate International Bridge Program is a course that helps students develop effective academic study skills, such as listening and note taking, as well as life skills. Additionally, this course will provide English language tutoring assistance for any of the other classes in which students are enrolled. This course is taught in conjunction with the University College First Year Experience courses. Fall, Spring.

National Student Exchange (NSE)

NSE 301V. National Student Exchange Non-credit placeholder course for students participating in the National Student Exchange.
LIBRARY AND INFORMATION RESOURCES

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

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

MLR 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.

Microcomputer Applications 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.

MLR 1012. Fundamentals of Leadership Develops knowledge of self, self-confidence, and individual leadership skills. Develop problem solving and critical thinking skills. Apply communication, feedback and conflict resolution skills. Also requires leadership lab participation in 2 hours physical fitness session. Prerequisites, both MSL I courses. Fall.

MLR 2021. 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.

MLR 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. Also requires leadership lab and participation in 2 hours physical fitness session. Prerequisites, both MSL I courses. Spring.

MLR 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. Also requires leadership lab and participation in 2 hours physical fitness session. Prerequisites, both MSL I courses. Fall.

MLR 209S. Leadership Training Course A four week summer camp conducted at Fort Knox, Kentucky. The student receives pay. Travel, lodging, and most meals 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 soldier for entry into the Advanced Course. Multiple 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.

MLR 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.

MLR 3063. Leadership and Ethics Probes leader responsibilities that foster an ethical command climate. Develop cadre 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.

MLR 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.

MLR 4083. Officership Capstone 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.

MLR 409V. Special Problems Individual 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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