2014-2015 UNDERGRADUATE BULLETIN

educate. enhance. enrich.

ARKANSAS STATE UNIVERSITY **EDUCATES** LEADERS,
ENHANCES INTELLECTUAL GROWTH AND **ENRICHES** LIVES.

STUDENT RESPONSIBILITY

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

POLICY STATEMENT

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

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

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION

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

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

SERVICES FOR INDIVIDUALS WITH DISABILITIES

Arkansas State University's Coordinator of Services to students, faculty and staff with disabilities is also the university's compliance coordinator for Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) and the ADA Accessibility Guidelines (ADAAG). In this capacity, the coordinator arranges for academic adjustments and auxiliary aids to be provided to qualified students and coordinates workplace accommodations. The coordinator also is the individual to whom concerns about physical access to facilities, buildings and grounds should be addressed. The coordinator's office is located on the second floor (Room 2181) of the Reng Student Services Center. The telephone number is (870) 972-3964. The number for the Telecommunications Device for the Deaf (TDD) is (870) 972-3458.

Arkansas State University will provide auxiliary aids, without cost, to those students with verified disabilities who require such services. If service providers are necessary, Arkansas State University will provide appropriately trained providers (other than paid tutors).

Arkansas State University

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See the ASU web page at http://www.astate.edu/ for current bulletin information.

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

ACCREDITATION OF PROGRAMS

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

The Higher Learning Commission of the
North Central Association of Colleges and Schools (HLC)
230 South LaSalle, Suite 7-500
Chicago, IL 60604
Telephone: (800) 621-7440

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

Council for the Accreditation of Educator Preparation (CAEP)
2010 Massachusetts Ave., NW
Suite 500
Washington, DC 20036
(202) 223-0077

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

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

The Association to Advance Collegiate Schools of Business-International (AACSB)
77 South Harbour Island Boulevard
Suite 750
Tampa, Florida 33602-5730
Telephone: (314) 872-8481
Fax: (314) 872-8495

Commission on Accreditation of Athletic Training (CAATE)
2201 Double Creek Drive
Suit 5006
Round Rock, TX 78664
Telephone: (512)733-9700
Fax: (512)733-9701

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

Council for Accreditation of Counseling and Related Educational Programs (CACREP)
1001 North Fairfax Street, Suite 510
Alexandria, VA 22314
Telephone: (703)535-5990
Fax: (703)739-9209

Council on Rehabilitation Education (CORE)

Council on Accreditation of Nurse Anesthesia Educational Programs (COA)
222 South Prospect Avenue
Park Ridge, IL 60068-4037
Telephone: (847) 692-7050

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Council on Social Work Education (CSWE)

Engineering Accreditation Commission of ABET

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

Joint Review Committee in Nuclear Medicine Technology (JRCNMT)

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

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
8410 West Bryn Mawr, Suite 670
Chicago, IL 60631
Telephone: (773) 714-8880

National Alliance of Concurrent Enrollment Partnerships (NACEP)
126 Mallette Street
Chapel Hill, NC 27516
Telephone: (919)593-5205
Fax: (877)572-8693

National Association of School Psychologists (NASP)
4340 East West Highway
Suite 402
Bethesda, MD 20814
Telephone: (301) 657-0270

National Association of Schools of Art and Design (NASAD)
11250 Roger Bacon Drive
Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

National Association of Schools of Music (NASM)
11250 Roger Bacon Drive
Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

National Association of Schools of Public Affairs and Administration (NASPAA)
1029 Vermont Ave., NW, Suite 1100
Washington, DC 20005
Telephone: (202) 628-8965
Fax: (202)626-4978

National Association of Schools of Theatre (NAST)
11250 Roger Bacon Drive
Suite 21
Reston, VA 20190
Telephone: (703) 437-0700

Accreditation Commission for Education in Nursing (ACEN)
33 Peachtree Road NE, Suite 850
Atlanta, GA 30326
Telephone: (404) 975-5000

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 Accreditation of Educator Preparation
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 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
American Alliance of Museums
American Chemical Society

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:

Andrew Sustich
Associate Vice Chancellor for Research and Technology Transfer
ORAU Councilor for Arkansas State University
870-972-2694

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

Visit the ORAU Home Page (http://www.orau.org/)

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ACADEMIC CALENDAR 2014-2015

Fall Semester 2014

Orientation for New Faculty	August 11-12 (M-T)
Faculty Conference	August 13 (W)
College and Department Faculty Meetings	August 14-15 (Tr-F)
Last Day for Admissions	August 15 (F)
Residence Halls Open	9:00 a.m. August 16 (Sa)
First Year Convocation	2:00 p.m. August 17 (Su)
Regular Classes Begin	August 18 (M)
Late Registration	August 18-22 (M-F)
Online Intent to Graduate Forms Due for December Commencement	August 22 (F)
Last Day to Change from Credit to Audit	August 22 (F)
Last Day to Drop/Withdraw Without Financial Assessment	August 22 (F)
Saturday Classes Begin	August 23 (Sa)
WN Grading Begins for Full Term and Session 1 Courses	August 25 (M)
Labor Day Holiday	September 1 (M)
WN Grading Ends for Full Term and Session 1 Courses	12:00 p.m. September 2 (T)
Checksheets Due to Office of Admissions, Records and Registration and Graduate School	September 5 (F)
Last Day to Drop Session I Courses	September 23 (T)
Mid-semester Exams	Sep. 30 - Oct. 6 (T-M)
Last Day to Add Session II Courses	October 6 (M)
Session II Classes Begin	October 7 (T)
Mid-semester Grades Due	12:00 p.m. October 8 (W)
WN Grading Begins for Session 2 Courses	October 13 (M)
WN Grading Ends for Session 2 Courses	12:00 p.m. October 20 (M)
Comprehensive Examination Results Reported to Graduate School	October 31 (F)
Thesis/Dissertation submitted to ProQuest and Oral Defense Results Reported to Graduate School	October 31 (F)
Last day to drop a course or withdraw from the University	November 12 (W)
Fall Break and Thanksgiving Holiday	November 24-29 (M-Sa)
Last Day of Class	December 1 (M)
Study Day	December 2 (T)
Final Examinations	December 3-9 (W-T)
Residence Halls Close (for all students not graduating)	12:00 p.m. December 10 (W)
Inclement Weather Final Exams Make-Up Day (if necessary)	December 10 (W)
Graduating Senior Grades Due	12:00 p.m. December 11 (Tr)
All Grades Due	12:00 p.m. December 12 (F)
Commencement (See Commencement Web Page for additional information)	December 13 (Sa)

The Official Academic Calendar can be accessed online at
http://www.astate.edu/a/registrar/students/

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

ACADEMIC CALENDAR 2014-2015

Spring Semester 2015

Residence Halls Open	9:00 a.m. January 9 (F)
Last Day for Admissions	January 9 (F)
Late Registration	January 12-16 (M-F)
Regular Classes Begin	January 12 (M)
Online Intent to Graduate Forms Due for May Commencement	January 16 (F)
Last Day to Drop or Withdraw without Financial Assessment	January 16 (F)
Last Day to Change from Credit to Audit	January 16 (F)
Saturday Classes Begin	January 17 (Sa)
WN Grading Begins for Full Term and Session 1 Courses	January 27 (T)
Checksheets Due to Office of Admissions, Records and Registration and Graduate School	January 23 (F)
WN Grading Ends for Full Term and Session 1 Courses	12:00 p.m. January 20 (T)
Last Day to Drop Session I Courses	February 17 (T)
Mid-semester Exams	February 24-March 2 (T-M)
Last Day to Add Session II Courses	March 3 (M)
Session II Classes Begin	March 3 (T)
Mid-semester Grades Due	12:00 p.m. March 4 (W)
WN Grading Begins for Session 2 Courses	March 9 (M)
WN Grading Ends for Session 2 Courses	12:00 p.m. March 13 (F)
Spring Break	March 23-28 (M-Sa)
Comprehensive Examination Results Reported to Graduate School	March 27 (F)
Thesis/Dissertation submitted to ProQuest and Oral Defense Results Reported to Graduate School	March 27 (F)
Convocation of Scholars	April 6-10 (M-F)
Spring Faculty Association Meeting	April 7 (T)
Last day to drop a course or withdraw from the University	April 15 (W)
Last Day of Class	April 27 (M)
Study Day	April 28 (T)
Final Examinations	April 29-May 5 (W-T)
Residence Halls Close (for all students not graduating)	12:00 p.m. May 6 (W)
Graduating Senior Grades Due	12:00 p.m. May 7 (Tr)
All Grades Due	12:00 p.m. May 8 (F)
Commencement (See Commencement Web Page for additional information)	May 9 (Sa)

The Official Academic Calendar can be accessed online at http://www.astate.edu/a/registrar/students/

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

ACADEMIC CALENDAR 2014-2015

Summer Term 2015 - Session I

Last Day for Admissions	May 29 (F)
Residence Halls Open	12:00 p.m. May 30 (Sa)
Registration	through June 1 (M)
Classes Begin	June 1 (M)
WN Grading Begins for Full Term and Session I Courses	June 1 (M)
Last Day to Change from Credit to Audit	June 2 (T)
WN Grading Ends for Full Term and Session I Courses	12:00 p.m. June 5 (F)
Online Intent to Graduate Forms Due for August Commencement	June 5 (F)
Checksheets Due to Office of Admissions, Records and Registration and Graduate School	June 12 (F)
Last day to drop a course or withdraw from the University	June 22 (M)
Last Day of Class	July 1 (W)
Final Examinations	July 2 (Tr)
Comprehensive Examination Results Reported to Graduate School	July 2 (Tr)
Thesis/Dissertation submitted to ProQuest and Oral Defense Results Reported to Graduate School	July 2 (Tr)
All Grades Due	12:00 p.m. July 7 (T)

The Official Academic Calendar can be accessed online at http://www.astate.edu/a/registrar/students/

ACADEMIC CALENDAR 2014-2015

Summer Term 2015 - Session II

Last Day for Admissions	July 2 (Tr)
Registration	through July 6 (M)
Classes Begin	July 6 (M)
WN Grading Begins for Session II Courses	July 6 (M)
Last Day to Change from Credit to Audit	July 7 (T)
WN Grading Ends for Session II Courses	12:00 p.m. July 10 (F)
Last Day to Drop or Withdraw from the University	July 24 (F)
Last Day of Class	August 5 (W)
Final Examinations	August 6 (Tr)
Graduating Senior Grades Due	10:00 a.m. August 7 (F)
All Grades Due	12:00 p.m. August 7 (F)
Residence Halls Close (for all students not graduating)	12:00 p.m. August 7 (F)
Commencement	7:00 p.m. August 7 (F)

The Official Academic Calendar can be accessed online at http://www.astate.edu/a/registrar/students/

ORGANIZATION OF THE UNIVERSITY

BOARD OF TRUSTEES—2014-2015

	Term Expires
Dan Pierce, Jonesboro	January, 2015
Charles Luter, Paragould	January, 2016
Howard Slinkard, Rogers	January, 2017
Ron Rhodes, Cherokee Village	January, 2018
Tim Langford, Little Rock	January, 2019

OFFICERS OF THE BOARD—2014-2015

Dan Pierce	Chair
Charles Luter	Vice-Chair
Howard Slinkard	Secretary

PRESIDENT OF THE UNIVERSITY SYSTEM

Charles Welch, B.A., M.A., Ed.D

CHANCELLOR OF THE UNIVERSITY

Tim Hudson, B.A., M.A., Ph.D

OFFICERS OF THE UNIVERSITY 2014-2015

EXECUTIVE OFFICERS

TIM HUDSON, 2012
B.A., University of Southern Mississippi
M.A., University of Southern Mississippi
Ph.D., Clark University

Chancellor of the University
—Professor of International Management/ International Business

LYNITA M. COOKSEY, 1993
B.S., Arkansas State University
M.S., Arkansas State University
Ph.D., Oklahoma State University

Provost and Vice Chancellor for Academic Affairs and Research
—Associate Professor of Environmental Entomology

LEN FREY, 2000
B.S., Arkansas State University
M.B.A., Arkansas State University
Ph.D., University of Memphis

Vice Chancellor for Finance and Administration
—Professor of Management

JASON PENRY, 2012
B.A., Louisiana State University
M.S., Lousisana State University
Ph.D., Texas A & M University

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
—Associate Professor of Educational Leadership

OFFICERS OF THE UNIVERSITY 2014-2015

Academic Deans
and
Chair of Independent Department

TIMOTHY BURCHAM, 2013
B.S., Mississippi State University
M.S., Mississippi State University
Ph.D.,Clemson University
Dean, College of Agriculture and Technology
—Professor of Agricultural Engineering

SHANE HUNT, 2007
B.B.A., University of Oklahoma-Norman
M.B.A., University of Oklahoma-Norman
Ph.D., Oklahoma State University
Dean, College of Business
—Associate Professor of Marketing

THILLAINATARAJAN SIVAKUMARAN, 2012
B.S., University of Washington
M.S., University of Tennessee
Ph.D., University of Tennessee
Dean, College of Education and Behavioral Science
—Associate Professor of Educational Leadership and Curriculum

PAUL MIXON, 1996
B.S., Memphis State University
M.S., Memphis State University
Ph.D., Memphis State University
Interim Dean, College of Engineering
—Associate Professor of Electrical Engineering

DONALD BOWYER, 2012
B.A., West Virginia Wesleyan College
M.A., California State University
D.A., University of Northern Colorado
Dean, College of Fine Arts
—Professor of Music

LAURI UMANSKY, 2012
B.A., University of Massachusetts—Boston
M.A., Brown University
Ph.D., Brown University
Dean, College of Humanities & Social Sciences
—Professor of History

BRAD RAWLINS, 2012
B.A., Washington State University
M.A., University of Alabama
Ph.D., University of Alabama
Dean, College of Media and Communication
—Professor of Journalism

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

JOHN PRATTE, 2006
B.S., University of Texas
Ph.D., University of Colorado
Dean, College of Sciences and Mathematics
—Professor of Physics

JILL SIMONS, 1997
B.F.A., University of Arkansas
M.S., University of Rhode Island
S.C.C.T., Arkansas State University
Ed.D., Arkansas State University
Dean, University College

OFFICERS OF THE UNIVERSITY 2014-2015

Academic Deans and Chair of Independent Department

GINA HOGUE, 1990
B.S.E., Arkansas State University
M.S.E., Arkansas State University
Ph.D., University of Memphis

Associate Vice Chancellor for Academic Services
—Associate Professor of History

CECIL L. CLARK, 2011
B.A. University of Louisiana at Monroe
M.A., American Military University

Chair, Independent Department of Military Science
—Professor of Military Science

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

Director, Library

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

Vice Provost for Research and Graduate Studies
—Professor of Physics

The University

MISSION

Arkansas State University *educates* leaders, ***enhances*** intellectual growth, and ***enriches*** lives.

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.

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 63,000 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 and Technology, Business, Education and Behavioral Science, Engineering, Fine Arts, Humanities and Social Sciences, Media and Communication, 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 of Colleges and Schools, 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 1955. It associated with White River Vo-Tech at Newport in 1992; that campus has attained stand-alone status and is now Arkansas State University-Newport. The Mountain Home campus officially became ASU-Mountain Home on July 1, 1995. Delta Technical Institute at Marked Tree merged with ASU and became Arkansas State University Technical Center on July 1, 2001 and currently operates under ASU-Newport. 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 620,000 print books and periodicals, 500,000 federal and state documents, 590,000 units in microform, over 30,000 CDs and DVDs, and provides online access to millions of books, articles, and other resources, including more than 350,000 eBooks. The collection encompasses all subject fields, but emphasizes subjects covered by Arkansas State University courses and degree programs. The Library of Congress classification system is used for the arrangement of books, and an online catalog provides access to its print collection and electronic resources. Reserve items are available at the Circulation Desk.

The library meets the informational needs of the university by offering a variety of services. A staff of 15 professional librarians and 20 support personnel acquires, organizes, and services the collection and provides access to online resources. 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, books, and data not housed within the library. Materials that are not contained in the library's collections may be borrowed from other libraries through Interlibrary Loan.

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

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

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

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

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

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

An Oral History Program, housed in the library, has conducted and taped interviews with a number of local citizens and state leaders. The tapes are available for use by any interested researcher who comes to the library.

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. Scanning, color printing, audio and video preview rooms, and laminating services are available.

ARKANSAS HERITAGE SITES

Arkansas Heritage Sites 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, the Lakeport Plantation in Lake Village, and the Historic Dyess Colony: Boyhood Home of Johnny Cash.

MUSEUM

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. ASU Museum is one of fewer than 800 museums in the US accredited by the American Alliance of Museums.

With 15,000 square feet of exhibit space and more than 60,000 regionally acquired objects, ASU Museum is a veritable treasure of Northeast Arkansas history, culture, and natural history. Long-term exhibits feature fossils 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 1880–1920 ("Old Town Arkansas"), a military gallery, decorative arts, and more.

Multiple activities target children and support Core Curriculum and science, technology, engineering and math—notably, hands-on exhibits about prehistoric peoples in Northeast Arkansas, the early European exploration of Arkansas, and the New Madrid Seismic Zone. The Museum offers a Tinkering Studio and changing hands-on exhibits from the Arkansas Discovery Network, which is funded by the Donald W. Reynolds Foundation. 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. Classes provide significant real-life experience and instruct in collections management practices, interpretation, and exhibit development.

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.

Admission

GENERAL INFORMATION

Communications concerning admission to the undergraduate programs of the university should be addressed to the Office of Admissions, Records and Registration, P.O. Box 1570, State University, AR 72467.

CORE CURRICULUM FOR UNRESTRICTED ADMISSION

ENGLISH — 4 units with emphasis on writing skills, not to include courses in Oral Communication, 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 Friday before classes begin.
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 Admissions, Records and Registration, 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 1/1/68.
7. A minimum ACT composite score of 21 and a minimum high school GPA of 2.75 for unconditional admission OR a minimum ACT composite score of 19 and a minimum high school GPA of 2.30. 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.

Students enrolling in degree programs at Arkansas State University may present faxed documents from the issuing school, as long as a cover letter is accompanied with the fax (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.

ADMISSION THROUGH FIRST YEAR STUDIES

Any first-time freshman with an ACT of <21 (or comparable SAT) or whose Compass or ASSET scores require that they take one or more developmental courses may only be admitted to ASU through First Year Studies. Students admitted through First Year Studies are officially undecided and will be limited in terms of class choices and enrollment hours and must complete two semesters of college work successfully to continue enrollment at ASU. Failure to complete the first two semesters successfully will result in dismissal from the FYS program, and therefore suspension from the university. Additional information about FYS admission requirements is on the University College website and under First Year Studies in the bulletin. Students not meeting program criteria are suspended and can only return when they have completed 12 or more transfer credited hours.

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

A minimum high school GPA of 2.50

A minimum ACT Reading and Composite score of 19 (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.

Admission by Exception for Prospective Students with Exceptional Talent

Prospective students who demonstrate exceptional talent, ability, accomplishment, or potential in athletics, leadership, and performance or similar contribution to the university community may be granted admission by exception to Arkansas State University-Jonesboro. Admission by exception provides a means to identify students who do not meet the numerical requirements (GPA and/or ACT/SAT) for admission but who demonstrate exceptional potential to contribute to ASU. Prospective first-time students admitted by exception will be required to participate in the intensive First Year Studies program. Successful completion of the FYS requirement will allow for continued enrollment at ASU. Prospective transfer students admitted by exception will be required to participate in the Restart@state program.

To be granted admission by exception, prospective first-time student-athletes must satisfy the National Collegiate Athletic Association initial eligibility standards under Division I guidelines and prospec-

tive transfer student-athletes must satisfy the National Collegiate Athletic Association transfer eligibility standards under Division I guidelines in order to be eligible to petition for admission via the Undergraduate Admission Appeals Committee. Colleges/Departments desiring to utilize "admission by exception" must provide documentation in support of the student's extraordinary talent, ability, accomplishment, or potential via petition to the Undergraduate Admission Appeals Committee for consideration. Admission by exception will generally be reserved for students eligible for performance-based scholarships.

In addition, under extraordinary circumstances, prospective students may continue to be granted exceptional admission by the Chancellor as set forth in Article VI of the Bylaws of the Board of Trustees of Arkansas State University.

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.

ENROLLMENT IN DEVELOPMENTAL COURSES

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

When an entering freshman 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 appropriate developmental course(s) shall be mandatory for the student's first semester of enrollment at Arkansas State University**. Students will have a maximum of two semesters to complete a developmental course with a C or above or obtain the requisite passing score on the appropriate Compass subject area test. Failure to meet this requirement will result in students not being allowed to reenroll until the appropriate developmental courses are successfully completed at another college.

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 42 on the ASSET (American College Testing Program's Assessment of Skills for Successful Entry and Transfer) Algebra test or below 41 on the COMPASS test, must successfully complete the 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 0-18 range (or ASSET/SAT/COMPASS equivalencies)
MUST ENROLL IN UC 0173, DEVELOPMENTAL MATHEMATICS I

English Composition and Reading

Students who score below 19 on the English or reading sections 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 Use Test or 43 on the ASSET Reading Skills test or below 80 on the Compass writing test or 83 on the Compass reading test must enroll in UC 0164 Academic Literacy concurrently with ENG 1003 Composition I and complete both courses with a C or higher.

International students who score below 16 on the English section of the Enhanced ACT or equivalent score on SAT, Compass or ASSET must take UC 0143 Writing Fundamentals with a C or higher prior to taking ENG 1003 Composition I. Students who score below 16 on the reading section of the Enhanced ACT or equivalent score on SAT, Compass or ASSET must take UC 0153 Enhanced College Reading and complete the course with a C or higher.

ADMISSION PROCEDURES

1. Completed application for admission along with a $15.00 non-refundable processing fee.
2. Official transcript mailed directly to ASU from each institution previously attended. [Refer to Transfer Credit Policy for definition of acceptable transfer credit.]
3. A student currently enrolled and whose final transcript cannot be provided by the institution until the semester is completed will be evaluated for admission on all work completed to date. A final, official transcript must be received in order to continue enrollment for subsequent terms.
4. 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. 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 taken within the last five years 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. ACT scores taken within the last five years will be required for any transfer student who has not successfully completed English I with a C or better and College Algebra.
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@state program.
5. College transcripts should be sent to: Office of Admissions, Records and Registration, P.O. Box 1570, State University, AR 72467.

NOTE: Transferable hours include courses in which a grade of F was earned. The courses transfer and will impact G.P.A.

REQUIRED REMEDIATION FOR TRANSFER STUDENTS

Students with fewer than 24 semester hours must show proof of compliance with state-mandated remediation laws (ACT - or comparable - test scores >= 19 or completion of required remediation.)

READMISSION OF FORMER STUDENTS

Returning students who have been in a "non-enrolled" status with Arkansas State University for more than one academic year must submit to the Office of Admissions, Records and Registration an application for readmission, along with a $15.00 nonrefundable processing fee. Additionally, re-entering students must submit official transcripts for any/all college work completed at other institutions. Students must provide proof of immunization for measles, mumps and rubella.

Test scores taken within the last five (5) years will be required for any returning student who has not completed English I with a C or better and College Algebra.

TRANSIENT STUDENTS

Transient (temporary) students are those who are actively enrolled in other institutions of higher learning and wish to enroll for a session at Arkansas State University. Admission as a transient student requires an application, a $15.00 nonrefundable processing fee, proof of two immunizations for measles, mumps and rubella, a college transcript from the student's home institution indicating good standing. Transient students wishing to continue at Arkansas State University for more than one academic session should follow the procedures for admission of transfer students. (See Admission Procedures for more information about immunization documentation.)

NON-DEGREE STUDENTS

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

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

Non-degree students are required to meet the same course prerequisites as are other students. Non-degree students are generally not eligible to participate in financial aid programs.

Due to specific enrollment limitations, non-degree students may not register through the university's web registration system.

ADMISSION AND ENROLLMENT OF INTERNATIONAL STUDENTS

Arkansas State University 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** — Web 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. **Official Academic Records** — All undergraduate applicants must submit an official copy of their high school grade report and diploma or equivalent credentials with translation 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 (World Education Service) 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 (90% or above required for graduate students)
   - Completing the required level of a language program, which has a formal agreement with ASU (check with International Programs)
   - TOEFL – Paper-Based 500 – (ASU's Code:6011)
   - TOEFL – Internet-Based 61– (ASU's Code:6011)
   - IELTS – Academic 5.5- Official Score from British Council
   - PTE - Pearson Test of English Academic 43
   - Completing the required level of a CEA Accredited ESL program (check with Office of Admissions, Records and Registration)
   - Obtaining a minimum of 60% in English at X and XII in Certificate in India and Pakistan
   - High School Graduate (minimum 2 years of attendance) from USA, UK, Canada (except Quebec), Australia, and New Zealand

   ** English proficiency requirement may be waived for countries whose official language is English. Decision will be made by admissions committee upon reviewing the application and academic credentials.*

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 $570.00, is added to each semester's tuition bills.

THE OFFICE OF INTERNATIONAL PROGRAMS

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

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

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

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

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

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

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

Long-term programs consist of semester- and year-long exchanges. These academic sojourns allow students to experience another culture in more depth while continuing to make regular progress toward a degree.

Programs exist for students in all majors, including business, education, computer science, natural sciences, media design, the visual arts, political science, history, and languages, to name a few. The Language of instruction is in English unless a student wants to pursue coursework directed in a different language. In addition, foreign language instruction is a popular goal of many students who study overseas.

ASU is a member of the International Student Exchange Program (ISEP), the Magellan Exchange, and also maintains many other international exchange agreements.

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

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

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

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

Visit http://www.astate.edu/a/middle-east-studies/ for more information.

THE WILSON CENTER FOR ACADEMIC ADVISING

The Wilson Advising Center is the primary home for advisement of exploratory (undecided) and Interdisciplinary Studies students at ASU. This office offers walk-in style services Monday through Friday for students who have general advising questions. The center is the first stop for students who wish to withdraw from ASU. The center provides services for students who have been placed on academic suspension or who need to readmit following suspension. Any student regardless of major may contact this office with general advising or other academic questions and concerns.

Fees and Expenses

http://www.astate.edu/a/student-accounts/tuition-fees/

Payment is due in full within the first five (5) days of class or start of term. Students unable to meet this requirement should contact Student Account Services.

Late fees will be assessed on past-due installment plans and outstanding balances with no payment arrangements.

Those students who fail to clear their accounts will not be permitted to register for future terms. A "hold" will be placed on the student's record, and information will not be released until the account is paid.

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. To access downloadable tuition and fee tables, please visit Student Accounts at:

http://www.astate.edu/a/student-accounts/tuition-fees/

GENERAL REGISTRATION FEES PER TERM	PER HOUR
Undergraduate Tuition	
Arkansas Resident	$192.00
Non-Resident (Enrolled Prior to Fall 2011)	$501.00
Non-Resident (Enrolled After Fall 2011)	$384.00
International	$384.00
Graduate Tuition	
Arkansas Resident	$244.00
Non-Resident (Enrolled Prior to Fall 2011)	$621.00
Non-Resident (Enrolled After Fall 2011)	$489.00
International	$489.00
Infrastructure Fee	$4.00
Athletics Fee	$17.00
Student Union Fee	$10.00
Information Technology Fee	$10.00
Library Fee	$6.00
Student Recreation Fee	$7.00
Academic Excellence Fee	$6.00
College Support Assessment Fee - Undergraduate (for Nursing, Business and Engineering)	$20.00
College Support Assessment Fee - Graduate (for Nursing, Business and Engineering)	$49.00
College Support Assessment Fee - Undergraduate (for Science and Mathematics)	$21.00
College Support Assessment Fee - Graduate (for Science and Mathematics)	$50.00

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

ASU - PARAGOULD
GENERAL REGISTRATION FEES PER TERM

ASU - PARAGOULD	PER HOUR
Freshmen / Sophomore Level Classes	
Greene County Residents	$120.00
Arkansas Resident	$192.00
Non-Resident (Enrolled Prior to Fall 2011)	$501.00
Non-Resident (Enrolled After Fall 2011)	$384.00
International	$384.00
Junior / Senior Level Classes	
Arkansas Resident	$192.00
Non-Resident (Enrolled Prior to Fall 2011)	$501.00
Non-Resident (Enrolled After Fall 2011)	$384.00
International	$384.00

NOTE: Greene County Residents are only assessed the $10/hr Technology Fee along with tuition.

DEGREE CENTER
GENERAL REGISTRATION FEES PER TERM

DEGREE CENTER TUITION	PER HOUR
Arkansas Resident Tuition – Undergraduate	$244.00
Arkansas Resident Tuition – Graduate	$280.00
Non-Resident (Enrolled Prior to Fall 2011) – Undergraduate	$550.00
Non-Resident (Enrolled Prior to Fall 2011) – Graduate	$656.00
Non-Resident (Enrolled After Fall 2011) – Undergraduate	$488.00
Non-Resident (Enrolled After Fall 2011) – Graduate	$561.00

All Degree Centers' classes are assessed the following PER HOUR in addition to tuition:

Technology Fee	$10.00
Academic Excellence Fee	$6.00
Facilities Fee	$3.00
Institutional Host Fees:	
ASU - Beebe	$25.00
ASU - Mountain Home	$20.00
ASU - Newport	$20.00
Arkansas Northeastern College	$20.00
East Arkansas Community College	$20.00
Mid-South Community College	$20.00

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

REFUND OF FEES SCHEDULE

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

RESIDENCY REQUIREMENTS FOR FEE PAYMENT

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

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

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

NOTE: 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. 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 $20 replacement fee will be assessed for lost IDs.
4. The charges for room and board for less than a full semester are computed on the base rate for the period of occupancy.
5. The residence halls and cafeteria will be open during the periods classes are in session. Vacation periods (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, along with tuition and fees, 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
Fall 2014 - Spring 2015

Residence Halls	Double	*Single	*Single Deluxe
Arkansas Hall	$2,040.00	$2,215.00	$2,325.00
Kays Hall	$2,040.00	$2,215.00	N/A
University Hall	$2,040.00	$2,215.00	$2,325.00
Northpark Quads (Bldgs 3-5)	N/A	$2,275.00	N/A
Northpark Quads (Bldg 1&2)	N/A	$2,425.00	N/A
Honors LLC (Bldg 1-3)	$2,075.00	$2,250.00	N/A
Honors LLC (Bldg 4)	$2,100.00	$2,300.00	N/A
ROTC	N/A	$2,060.00	$2,085.00
STEM Den	N/A	$2,060.00	$2,085.00
Greek Village	$2,075.00	$2,250.00	N/A

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

Apartments	Bed	Bath	Single
Collegiate Park	2	2	$2,585.00
Collegiate Park	2	1	$2,370.00
Collegiate Park	4	2	$2,320.00
Collegiate Park Townhouse	4	2	$2,285.00
Red Wolf Den	2	1	$2,450.00
Red Wolf Den	3	1	$2,345.00
Red Wolf Den	4	2	$2,375.00

Rent includes all utilities, internet connection, and cable. Apartments and Northpark Quads Buildings 1 and 2 will be open during all break periods.

Fall 2014 - Spring 2015 Meal Plan Rates

5 Day + 150	$1,450.00	100 Meal Block + 600 (2nd year and above)	$1,400.00
5 Day + 200	$1,475.00	150 Meal Block + 300 (2nd year and above)	$1,320.00
7 Day + 100	$1,450.00	150 Meal Block + 400 (2nd year and above)	$1,400.00
7 Day + 300	$1,600.00	Flex Only (3rd year and above)	$1,300.00

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 a week 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 Simply to Go. 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.

THE VILLAGE

	Fall & Spring 2014-2015 (Per Semester)	Summer 2015
Houses	**$2,470.00**	**$1,650.00**
Apartments		
1 Bedroom	**$2,735.00**	**$1,825.00**
2 Bedroom	**$3,240.00**	**$2,160.00**
2 Bedroom w/ WD	**$3,395.00**	**$2,265.00**
3 Bedroom	**$3,670.00**	**$2,450.00**

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

ROOM AND BOARD CHARGES

Room and board charges are assessed and payable in full at the beginning of each semester. Students seeking installment arrangements should contact Student Account Services at (870) 972-2285. Students receiving financial assistance that equals or exceeds their total charges are not eligible for installment arrangements.

To access downloadable room and board fee tables, visit the Residence Life website at:

http://www.astate.edu/a/residence-life/

Academic 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 required to consult an academic advisor each registration period to review procedures and degree requirements. Academic advisors 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 Office of Admissions, Records and Registration that the request is to be voided. Voiding the original nondisclosure request may be accomplished in a personal request directly to the Office of Admissions, Records and Registration.

1. Purpose

Arkansas State University will comply with the Family Educational Rights and Privacy Act (FERPA).

2. Definitions

Arkansas State University. Arkansas State University (ASU) means all the campuses within the Arkansas State University System, now and in the future.

Student. Student means an individual who attends or has attended classes at ASU. This policy does not apply to the records of applicants for admission who are not accepted to ASU nor does it apply to applicants who are accepted but choose not to attend ASU.

Education Record. Education records are those records, files, documents, and other materials which contain information directly related to a student and are maintained by ASU or a person acting for ASU.

Directory Information. Directory Information is designated to be 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.

3. Arkansas State University Family Educational Rights and Privacy Act Policy

The Family Educational Rights and Privacy Act requires that institutions of higher education strictly protect the privacy rights of all students who are or who have been in attendance. Information contained in the student's education records can be shared only with those persons or entities specified within the Act. The law also provides that students have the right to review their education records for the purpose of making any necessary corrections. The Office of Admissions, Records and Registration maintains a copy of the full text of FERPA, posts electronic information on FERPA, and processes all FERPA requests and challenges. Arkansas State University will utilize the following process to implement the provisions of the Family Educational Rights and Privacy Act.

4. Process

A. Disclosure of Education Records

I. Disclosure With Student Consent. A student may consent in writing to disclosure of education records. The student's written consent must be signed, dated, and specify which records are to be disclosed, to whom, and for what purpose. The consent must be delivered to the Office of Admissions, Records and Registration. The student may retract

the consent in writing at any time. Proper proof of identity may be required by the Office of Admissions, Records and Registration before consent is retracted.

II. Disclosure Without Student Consent. ASU may disclose education records without the student's written consent to any school official within the institution with a legitimate educational interest. School officials include administrators, supervisors, faculty members, instructors, support staff, members of the Board of Trustees, persons with whom ASU has contracted for special tasks, and university committee members. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. School officials of ASU are considered to be within the institution for the purposes of FERPA and may exchange education records without student consent so long as they have a legitimate educational interest.
Disclosure without student consent may also be made to other persons and entities as allowed by FERPA.
Faculty sponsors of registered honor societies may have access to student education records for the sole purpose of determining eligibility for membership on the basis that they are acting in an official university capacity that is integral to the educational function of ASU.
The parents of students may exercise rights under FERPA if the student is claimed as a dependent by the parents for income tax purposes. Dependency must be proven by submission of a copy of income tax returns.

B. Disclosure of Directory Information

Directory information may be disclosed to any person or entity without student consent unless the student submits a completed request for non-disclosure of directory information form to the Office of Admissions, Records and Registration. If a student elects not to allow disclosure of directory information, ASU cannot share information regarding the student with any person or entity including prospective employers, licensing agencies, government agencies, the media, and others. The student may retract the directory information non-disclosure in writing at any time. Proper proof of identity may be required by the Office of Admissions, Records and Registration before the directory information non-disclosure is retracted.

C. Inspection, Review, and Correction of Education Records

Students have the right to inspect and review their education records except for specific exclusions contained within the Family Educational Rights and Privacy Act. A student should contact the Office of Admissions, Records and Registration to arrange for inspection, review, and correction of an education record. The Office of Admissions, Records and Registration may charge a fee for copies of any education records.

D. Ownership of Education Records

Education records are the property of ASU. Education records, including transcripts and diplomas, will not be released to any student who has a delinquent financial obligation to the University.

ASSESSMENT REQUIREMENTS

Arkansas State University (ASU) is dedicated to providing quality academic programs and committed to transparency of student learning outcomes; therefore, assessment for improvement of academic programs and learning is of primary importance to the university. Students are responsible for participating in 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, 12 hours during the summer term (which includes any combination of five or ten-week courses, or Internet courses and/or other courses no matter how delivered or where taken), or 3 hours in the December interim.

The maximum academic load for students with less than a 3.50 GPA but at least a 2.00 shall not exceed 18 hours per semester, 18 hours during the summer term (which includes any combination of five-

or ten-week courses, or Internet courses and/or other courses no matter how delivered or where taken), or 3 hours in the December 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 18 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). Students transferring to ASU will be held to these standards. All college credit hours will be considered if the student is transferring with an associate degree.

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

Students who receive an Institutional Scholarship should be enrolled in a minimum of 15 ASU-Jonesboro semester hours each fall and spring term. Students who receive the ASTATE Scholar Scholarship should also take at least one three-hour honors course each term.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.

Upper-level courses completed by a student before he/she has earned 30 degree-credit hours cannot be counted as upper-level credit.

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

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 Office of Admissions, Records and Registration 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, DANTES, formal non collegiate 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 ***might not*** satisfy specific General Education Requirements. Transfer credit ***might 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 applied first if more than the maximum number of hours are submitted for approval. Currently enrolled students should not take courses at other institutions without first checking with the advisors regarding the applicability of the courses for ASU credit and to ensure that they are not taking inappropriate courses, non-equivalent courses, out-of-sequence courses, courses on the wrong level or an overload for the semester.

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

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 and 60 transfer hours will be classified as a junior for registration purposes.

REGISTRATION

All students are expected to register for classes on the days designated on the Office of Admissions, Records and Registration 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 students have completed plus the number of hours in which students are currently enrolled.

ALL STUDENTS ARE REQUIRED TO CONSULT AN ACADEMIC ADVISOR 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 the Wilson Advising Center 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 (this digit will vary with some courses, including variable hour courses - such as Independent Studies - which will carry the letter V in place of hours).

COURSE PREREQUISITES

Students may not enroll in a course before successfully completing the prerequisites to that course. Prerequisites to a course are noted following the description of the course. Departments may choose to override these requirements under exceptional circumstances.

FREQUENCY OF COURSE OFFERINGS

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

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

The code symbols are as follows:

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

CHANGES IN SCHEDULE

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

STUDENTS SHOULD CONSULT WITH THEIR ACADEMIC ADVISOR 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 Office of Admissions, Records and Registration 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 may 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 Office of Admissions, Records and Registration 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. It is the practice of Arkansas State University to allow students to participate in university sponsored academic or athletic events, even when those events cause them to be absent from class. Students participating in university sponsored academic or athletic events will not have those days counted against their available absences and will be given reasonable opportunities to make up missed assignments and exams.

Students enrolled in freshman or sophomore level courses numbered 1000 or 2000 may during the spring and fall 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 withdraw from 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 absences.

Students enrolled in junior or senior upper-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 in their syllabi at the beginning of the semester their attendance requirements and expectations with regard to make-up policy for work missed, class participation and other factors that may influence course grades. In determining whether excessive absences should adversely affect a grade in an upper-level course, 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 absences.

Students must utilize their available absences for any cause which requires them to miss class including, but not being limited to, vacation, illness, emergency, or religious observances. Students who are aware that they will have absences during a term should ensure that they do not exceed the absences available.

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.

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 through the ASU-Jonesboro campus. Baccalaureate degree candidates must complete a minimum of 32 semester hours through the ASU-Jonesboro campus.

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

CURRICULUM STRUCTURE

Academic colleges within the university structure curriculum around the following:

GENERAL EDUCATION CORE CURRICULUM

This is a basic core of subjects from the areas of communications, humanities, social sciences, sciences and mathematics, consisting of 35 semester hours. The university designed the core to acquaint students with the major areas of knowledge. Please see "The General Education Program" section for additional information.

MAJORS AND MINORS

All degree programs, except those for the Associate of General Studies, Bachelor of Applied Science 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.

MAJOR

A major is a collection of courses designed to give opportunity for in-depth study of a specific area within a given discipline. Students completing a major should be able to demonstrate a significant level of expertise in that area. Though a major on the baccalaureate level cannot provide comprehensive coverage of a particular area within a discipline, the collection of courses within it must be coherent, progressing from a basic understanding of the area's history, nature, theory, methodology, tools, and practice to a more complex and sophisticated integration of knowledge and skills in that area. Each course makes a significant contribution to the major and the fulfillment of its outcomes.

MINOR

A minor is a secondary area of specialized academic study usually consisting of 18-21 semester hours. Students may not minor in the same area as their major. Certain colleges provide the option of additional in-depth study beyond the major. Colleges may choose not to permit students to select a minor from within specific departments or colleges.

CONCENTRATION

A concentration is a selection of courses within a student's major that provides a particular specialization or focus for the major and is designed to give a student specialized knowledge, competence or skill within the major.

TRACK

A track is a grouping of courses within a major that are specific to the applied principal of the student. This does not necessarily imply additional hours of study.

OPEN ELECTIVES

Students may use any course in the curriculum, or accepted in transfer, to meet open elective requirements.

DIPLOMAS

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.*

Double Degrees are two **DIFFERENT** Degree types, such as a Bachelor of Arts and a Bachelor of Science. Degrees types are also differentiated by the college in which they are awarded. If a student is seeking two majors with the same Degree type in the same college, they are considered a Double Major.

BS in Sci/Math (Biological Sciences) + BA in Sci/Math (Chemistry) = Double Degree (one college) = Two Diplomas

BS in Sci/Math (Biological Sciences) + BA in HSS (Criminology) = Double Degree (two different colleges) = Two Diplomas

BS in Sci/Math (Biological Sciences) + BS in Sci/Math (Mathematics) = Single Degree with a Double-Major (one college) = One Diploma*

**Students will receive the one diploma with both majors listed. However, an option to obtain a diploma for each major is available for an additional $15 fee.*

MINORS

Students who successfully complete requirements for a minor will receive a minor certificate to accompany their diploma. Students seeking a double minor will receive one certificate with both minors reflected.

UNIVERSITY GENERAL REQUIREMENTS FOR ALL ASSOCIATE DEGREES

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

1. Submit an Intent to Graduate Application online in their Self-Service account prior to the fifth class day of the semester in which graduation will occur (If the student is unable to graduate at the end of the semester for which application has been made, a new Intent to Graduate Application form must be filed during the next semester in which the student expects to graduate).
2. Students will pay their graduation fee online at the time of completing the intent to graduate application either by charging the relevant fee to their student account or by paying via credit card. This fee is required of all students who wish to receive their degree, even if they decline participation in the ceremony. This fee must be paid before the diploma, final transcript or graduation attire can be released. (If the student is unable to graduate at the end of the semester for which application has been made, the student will be required to pay the graduation fee on each subsequent intent to graduate application).
3. Complete graduation requirements under the provisions of an ASU-Jonesboro Bulletin 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 bulletin was in effect.
4. Earn a grade of C or better in ENG 1003 and ENG 1013.
5. 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.
6. Complete the curriculum as listed under the description of each associate degree program, with a minimum of 60 semester hours.
7. Complete a minimum of 16 semester hours through the ASU-Jonesboro campus.
8. Have an average of C or better (2.00 GPA) on all work attempted, on work in the major field, and, if a transfer student, on all work taken at this institution. A passing grade must be made in all courses required for the degree. (These are minimum grade averages and some colleges on the campus will require higher averages.)
9. Twelve (12) of the last 18 semester hours must be Arkansas State University work. 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), evaluated military service credits, PLA, DANTES 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.)
10. An official record of transfer work completed at another institution must be on file in the Office of Admissions, Records and Registration at Arkansas State University at least three weeks before the degree is to be granted. If coursework is taken elsewhere during the last semester, an official transcript must be received no later than two weeks following commencement. Until it is received, the diploma and final transcript will be held.

UNIVERSITY GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

Each candidate for a baccalaureate degree must meet the following general requirements: (Some ASU colleges have additional specific "general" requirements.)

1. Submit an Intent to Graduate Application online in their Self-Service account prior to the fifth class day of the semester in which graduation will occur (If the student is unable to graduate at the end of the semester for which application has been made, a new Intent to Graduate Application form must be filed during the next semester in which the student expects to graduate).
2. Students will pay their graduation fee online at the time of completing the intent to graduate application either by charging the relevant fee to their student account or by paying via credit card. This fee is required of all students who wish to receive their degree, even if they decline participation in the ceremony. This fee must be paid before the diploma, final transcript or graduation attire can be released. (If the student is unable to graduate at the end of the semester for which application has been made, the student will be required to pay the graduation fee on each subsequent intent to graduate application).
3. Complete graduation requirements under the provisions of an ASU-Jonesboro Bulletin 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 bulletin was in effect.
4. Complete a First Year Experience/Making Connections Seminar during the first semester of enrollment at ASU regardless of the number of concurrent, AP and other college credits earned while in high school. This course is an integral part of the overall first year experience and is designed to assist students to make a smooth transition to the university experience. Students who meet ASU transfer guidelines of 13 or more credited and transferable hours at time of initial enrollment are exempt from this policy. This requirement may be waived in cases of students transferring to ASU-Jonesboro. (Transfer students see note under "General Education Curriculum for Baccalaureate Degrees.")
5. Meet the English proficiency requirement. Complete ENG 1003 with a grade of C or better before enrolling in ENG 1013. Complete ENG 1013 with a grade of C or better. Students who are not pursuing a teacher education degree [B.S.E./B.M.E./B.S.A. (Ag.Ed.)] and who have earned lower than C in ENG 1013 may satisfy the requirement by repeating the course with a C or better, OR by passing the English Proficiency Essay after completing 62 degree-credit hours, OR by earning a passing grade in an upper-level English writing course.
6. 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.
7. Complete the General Education curriculum, with substitutions/additions listed under the description of each degree program. (Transfer students see note under "Transfer Credit Policy" section of Academic Regulations.)
8. Complete a minimum of 32 semester hours through the ASU-Jonesboro campus.
9. 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.)
10. Complete a minimum of 120 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.
11. Have an average of C or better (2.000 GPA) 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. A passing grade must be made in all courses required for the degree. (These are minimum grade averages and some colleges on the campus will require higher averages.)
12. 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.
    A. The student must have met ASU's residency requirement by completing 32 semester hours through the ASU-Jonesboro campus.
    B. The student must have earned at least 90 hours at ASU and/or institutions having a formal articulation agreement with ASU.
    C. The remaining course work must be completed at a regionally accredited baccalaureate-degree-granting institution.

    A maximum of 25 percent of a baccalaureate degree program may be earned through credit by examination (including CLEP) advanced placement, evaluated military service credits, DANTES 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.)
13. An official record of transfer work completed at another institution must be on file in the Office of Admissions, Records and Registration at Arkansas State University at least three weeks before

the degree is to be granted. If coursework is taken elsewhere during the last semester, an official transcript must be received no later than two weeks following commencement. Until it is received, the diploma and final transcript will be held.

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

REQUIREMENTS FOR AN ADDITIONAL BACCALAUREATE DEGREE

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

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

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

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

GRADES AND GRADING SYSTEM

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

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

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

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

GRADE	DESCRIPTION	EXPLANATION	GRADE PTS./HR
AU	audit	for meeting all course requirements except taking examinations and completing written papers	0
I	incomplete	for students' inability to complete all course requirements for reasons beyond their control (An incomplete grade not removed within one semester will be recorded as an F.)	0
W	withdrawal	for dropping an individual course OR for complete withdrawal from the university	0
WN	administrative drop	dropped for non-attendance during the first eleven days of class	0
FN	failure	failure to attend and not withdraw from the University	0

A 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.

I - INCOMPLETE GRADE

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 Admissions, Records and Registration.

NOTE: "Grade Change Report" forms must be completed and submitted at the close of the next semester immediately following the one in which the original grade was recorded.

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 the Wilson Advising Center. Students should review their schedule of classes using Banner Self Service to make sure their enrollment is accurate.

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 Banner Self Service to make sure their enrollment is accurate. Students who find a mistake need to contact the Office of Admissions, Records and Registration for proper procedures immediately upon discovery. **The WN grade may not be appealed after the close of the semester in which the WN grade was issued.**

W - 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 advisors will assist students in the process to obtain withdrawal approval from the offices of Student Accounts, Financial Aid, Residence Life and the Library. The completed application must be returned to the Wilson Advising Center by the application nullification date. This process must be completed two weeks prior to the first day of final examinations during Fall and Spring semesters. Academic Affairs will identify appropriate deadlines for other semesters (interims, summer, half sessions). Grades earned in courses completed prior to official withdrawal from the university (i.e., short courses) will not be affected by that withdrawal. Classes that have been withdrawn will remain on the student's transcript with a "W" grade for withdrawal. Once the withdrawal process is complete, the classes withdrawn will not affect the student's GPA.

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

STUDENTS ACTIVATED FOR MILITARY SERVICE

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

(a) When any person is activated for full-time military service during a time of national crisis and therefore is required to cease attending a state-supported postsecondary educational institution without completing and receiving a grade in one or more courses, the following assistance shall be required with regard to courses not completed.

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

(A) Proportionate refunds of room, board, and other fees which were paid to the institution shall be provided to the student, based on the date of withdrawal.

(B) If an institution contracts for services covered by fees which have been paid by and refunded to the student, the contractor shall provide a like refund to the institution.

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

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

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

To prevent students who are receiving veteran's benefits from being penalized and having to repay such benefits, students activated during an academic semester who have not completed sufficient course requirements for the awarding of a grade must withdraw from the university. Students should contact the VA representative in the Office of Admissions, Records and Registration immediately upon notification of activation to initiate the withdrawal 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 Office of Admissions, Records and Registration. ($30 fee)

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

Upon approval by the Office of Admissions, Records and Registration, 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; and will 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 any time before the first Baccalaureate degree is awarded. Requirements:

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.

NOTE: A grade of F cannot replace a grade of D. If the grade in the first attempt is a D and the grade in the second attempt is an F, both grades will be counted.

Once a student earns a grade of "D" or above in a course, he/she may repeat the course only one additional time and receive federal financial aid in support of the course. All students repeating a course should check with their financial aid counselor to see how the repeated course will affect their scholarships and or aid.

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" (excluded) in the repeat column.

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

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

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

ADVANCED PLACEMENT CREDIT

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

Advanced Placement Exam	Minimum AP Score for Credit	ASU Credit

COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCE

Psychology	3	PSY 2013 - Introduction to Pyschology

COLLEGE OF FINE ARTS

History of Art	3	ARTH 2583 - Survey of Art History I
History of Art	5	ARTH 2583 & ARTH 2593 - Survey of Art History I & II
Studio Art (Drawing Portfolio)	3	ART 1033 - Drawing I
Studio Art 2D Design	3	ART 1013 - Design I
Music Theory	3	MUS 1513 - Music Theory I

Advanced Placement Exam	Minimum AP Score for Credit	ASU Credit

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

English Lit/Comp or Lang/Comp	3	ENG 1003 - Composition I
English Lit/Comp or Lang/Comp	4	ENG 1003 & ENG 1013 - Composition I & II
English Lit/Comp and Lang/ Comp	3, 3	ENG 1003 & ENG 1013 - Composition I & II
Foreign Language	3*	FR 2013 GER 2013 or SPAN 2013 - Intermediate French I, Intermediate German I, or Intermediate Spanish I
European History	4	HIST 1023 - World Civilization Since 1660
Government & Politics: US	4	POSC 2103 - Introduction to United States Government
United States History	3	HIST 2763 - The United States to 1876
United States History	4	HIST 2763 & HIST 2773 - The United States to 1876 & The United States Since 1876
World History	4	HIST 1013 - World Civilization to 1660

COLLEGE OF SCIENCES AND MATHEMATICS

Biology	3	BIOL 1003 - Biological Science
Biology	4	BIOL 1003 & 1001 - Biological Science & Lab
Chemistry	3**	CHEM 1013 & 1011 - General Chemistry I & Lab
Environmental Science	3	BIOL 1063 - People and the Environment

Advanced Placement Exam	Minimum AP Score for Credit	ASU Credit
Environmental Science	4	BIOL 1063 & BIOL 1001 - People and the Environment
Physics B	3	PHYS 2054 & PHYS 2064 - General Physics I & II
Physics C (Electricity, Magnetism)	4	PHYS 2083 & 2081 or PHYS 2044 - Fundamental Physics II and Lab, or University Physics II
Physics C (Mechanics)	4	PHYS 2073 & 2071 or PHYS 2034 - Fundamental Physics I and Lab, or University Physics I & Biological Science Lab
Calculus AB	3	MATH 2204 - Calculus I
Calculus BC	4	MATH 2204 & MATH 2214 - Calculus I & II
Statistics	4	STAT 3233 - Applied Statistics I

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

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

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

CREDIT BY EXAMINATION

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

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.

CLEP examination credit earned at other institutions of higher education is transferable to Arkansas State University if the subject is included in ASU's CLEP credit policy. Students must bear the cost of CLEP examinations. Credit may be awarded for two general examinations (G) and thirteen subject matter examinations (S) from the following areas.

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

Course Awarded	Sem. Hours	Exam Type	CLEP Exam	Min. Score
ENG 1003	3	G	College Composition	52
ENG 1003 & ENG 1013	6	G	College Composition	62
ART 2503, ENG 2003 & 2013	9	G	Humanities	51
ACCT 2033	3	S	Intro. to Financial Accounting	50
ECON 2313	3	S	Prin. of Macroeconomics	55
ECON 2323	3	S	Prin. of Microeconomics	55
FR 1013 & 1023	6	S	French Language Level 1	50
FR 1013, 1023, 2013 & 2023	12	S	French Language Level 2	62
GER 1013 & 1023	6	S	German Language Level 1	50
GER 1013, 1023, 2013 & 2023	12	S	German Language Level 2	60
HIST 1013	3	S	Western Civilization I	44
HIST 1023	3	S	Western Civilization II	50
HIST 2763	3	S	History of U.S. I	58
HIST 2773	3	S	History of U.S. II	51
MATH 1023	3	S	College Algebra	50
MGMT 3123	3	S	Prin. of Management	50
MKTG 3013	3	S	Prin. of Marketing	50
POSC 2103	3	S	United States Government	51
PSY 2013	3	S	Intro. to Psychology	47
SOC 2213	3	S	Intro. to Sociology	53
SPAN 1013, 1023	6	S	Spanish Language Level 1	50
SPAN 1013, 1023, 2013 & 2023	12	S	Spanish Language Level 2	63

DEPARTMENT CHALLENGE EXAMINATIONS

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

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

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

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

GRADUATION WITH LATIN HONORS/PROGRAM HONORS

Arkansas State University recognizes the academic achievement of graduating baccalaureate-degree students with Latin Honors, "Honors Program" and "University Honors Program" distinctions. To receive distinctions, students must be seeking their **first baccalaureate degree. Honor distinctions are not awarded for additional baccalaureate degrees, associates degrees, or graduate-level degrees.**

Latin Honors:

1. Distinctions for graduating students are determined after grades have been submitted for the first session of the graduating term for the graduation program and ceremony. Distinc-

tions are recalculated after full-term and second session grades have been posted to award distinctions to any students who improved sufficiently to achieve a distinction. Students who improve or qualify for distinction at the end of their last semester, will be contacted the next week with an updated diploma and cord.

2. In order to receive Latin Honors, students must earn at least **45 ASU-Jonesboro Institutional Hours**. ASU registration for the graduating term will be included when determining if a student meets this requirement.

3. Students must have both an **Overall (Cumulative) GPA** and an **ASU-Jonesboro Institutional GPA** that meets the following requirements:

4.00	Summa Cum Laude
3.80 - 3.99	Magna Cum Laude
3.60 - 3.79	Cum Laude

NOTE: Overall GPA is calculated by combining GPA hours and quality points for all ASU-Jonesboro and transfer coursework. (Transfer coursework may include courses taken concurrently while in high school.)

Program Honors:

1. Distinctions for graduating students are determined prior to the graduating term.

2. Students who complete the Honors Program shall be recognized as graduating "In Honors". Diplomas and transcripts will bear the designation "Honors Program". Students who complete the University Honors Program shall be recognized as graduating "In University Honors". Diplomas and transcripts will bear the designation "University Honors Program".

HONOR ROLL

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

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

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

WILSON AWARD

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

ACADEMIC GOOD STANDING

Academic Good Standing at ASU occurs when a student achieves both a current semester AND minimum cumulative GPA of 2.000 (C average). Only those grades earned at Arkansas State University are used in computing the GPA. Academic Good Standing status allows for continued enrollment in the University without restriction. For purposes of eligibility for participation in organized university activities (e.g. intercollegiate athletics, club sports, co-curricular activities, etc.), students are considered to be in academic good standing so long as placement on academic probation or academic suspension does not preclude their continued enrollment at ASU. Although students who are placed on academic probation and those students who are placed on academic suspension and participate in the Restart@State student success program do not meet the required GPA for academic good standing, the continued enrollment privilege provided by the University allows students to maintain eligibility for participation in university activities.

ACADEMIC PROBATION AND SUSPENSION

First Suspension: Students who are admitted and currently enrolled through First Year Studies (FYS) may be dismissed from the FYS program and therefore suspended from the University. Please see First Year Studies under University College in the bulletin. Students under regular admission standards suspended for the first time are under the retention policy listed below:

Students will receive academic probation at the close of any enrollment period (fall, spring or summer term) when their current semester **or** ASU cumulative grade point average (GPA) is below 2.00. Academic probation status will be removed at the end of any enrollment period when both the current semester and ASU cumulative GPA are 2.00 or above. Students placed on academic probation are restricted to enrollment in 12 credit hours until the current semester and ASU cumulative GPA are 2.00 or above. **Students receiving academic probation are strongly encouraged to counsel with an academic advisor or call the Wilson Advising Center at (870) 972-3001.**

Students on **academic probation** will be suspended from the university for poor scholarship when their current semester **and** fall, spring, or summer term ASU cumulative GPA are **both** below the required 2.00. Students suspended from the university for poor scholarship may apply for readmission to Arkansas State University under **SCHEDULE OF READMISSION FOLLOWING ACADEMIC SUSPENSION.**

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 from the university. (870) 972-3001. Students admitted to the university through First Year Studies, must successfully complete all program requirements. Failure to do so may result in suspension from the program. Students who are suspended from the First Year Studies Program must contact First Year Studies at 870-972-2080 to discuss readmission.

Restart@state Program: Students on a first academic suspension with the university, who have not participated in Restart@state 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@state is a fall, spring and summer program option. Program fees do apply. The Restart Program fee is used for university retention initiatives.

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@state 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 from the university for the first time must enroll in the Restart@state program. (See procedures for enrollment under the Restart@state 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 from the university 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 Graduation and Academic Credits Appeals Committee. Upon approval for re-enrollment, students must readmit with the institution 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 from the university 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 Graduation and Academic Credits Appeals Committee. Upon approval for re-enrollment, students must readmit with the institution 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 review transfer work completed while on a first suspension only after the student returns and successfully completes 12 hours with a 2.00 GPA, as well as the *Restart@state* program (if required). No more than 12 credit

hours of coursework completed at another accredited college or university while on a first academic suspension from ASU will be considered for transfer and only if the coursework:

1. removes deficiencies, such as the required high school core or developmental coursework; and/or
2. is a course retaken per the ASU recomputation policy (retaking course work that was earned at ASU with a grade below "C"); and/or
3. 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.

TRANSCRIPT POLICIES

Fee Information

1. Unofficial Transcripts are Free of Charge and can be printed online for coursework taken during Fall 1990 and beyond.
2. Official Transcripts are Free of Charge if ordered online through Self-Service and picked up AFTER 24 Hours, or if it is to be mailed.
3. Requests made via mail, or in person will be processed for a $10.00 flat fee. However, paid members of the Alumni Association will receive their transcript free of charge, regardless of the requesting method.
4. For Federal Express delivery, there is an additional fee of $25.00.
5. There is a $2.00 charge each for immunization and test scores.

General Information

1. Official transcripts of the student's ASU permanent record are issued on "security" paper with the seal of the university and the Registrar's signature.
2. Transcripts which have been presented for admission or evaluation of credit become a part of the student's permanent record and are not reissued. Transcripts from other institutions, (including High School), must be obtained directly from the original issuing institution.
3. Readmitting students who have been in a non-enrolled status for more than one year will be required to obtain new transcripts from all institutions previously attended.
4. Transfer students should obtain, for advisor use in scheduling, a reference copy of their academic record from each institution attended.
5. Transcripts or other evidence of attendance will not be issued to or for a student who is in debt to the university.
6. Transcripts for currently enrolled students will not be available during the final exam period.
7. Transcripts are issued only at the online request of the student or the written request of the student or appropriate institutions and officials. **NOTE: Telephone requests are not accepted.** To request a transcript, please visit the Transcript page at http://www.astate.edu/a/registrar/students/transcripts/index.dot.
8. For transcripts before Fall of 1990 you must request your first hardcopy from the Transcripts office or contact the office to be set up in our system. You cannot view your transcript on the web or request a copy online for course work prior to Fall 1990. Once we have received a request from you, you will be able to view your course work totals - not course by course detail - and request future transcripts on the web.
9. All transcripts will be mailed out in a single business envelope unless requested to be mailed in separate envelopes. Only requests made by mail may be requested to go out in individual envelopes. All web requests go out in a single envelope to the designated address.
10. Immunization records and test scores may be requested in person or by mail. Please note: some former student's immunization records and/or test scores may not be available from the office.
11. All duplicate transcripts mailed to home addresses go out in individual envelopes.

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.

THE OFFICE OF RECRUITMENT

The Office of Recruitment, Suite 2099, found in the Carl R. Reng Student Union, serves as the gateway to Arkansas State University for prospective students, families and visitors. At the forefront of student recruitment, the staff plan, coordinate, and implement recruitment strategies for prospective students which support the strategic enrollment goals and institutional mission. Pre-enrollment services, awareness sessions, class presentations, higher education workshops, community receptions, on-campus programs and other outreach events are provided for students, parents, counselors, and administrators, on- and off-campus. Topics such as the application process, admission requirements, entrance exams, financial aid, scholarships, registration, housing, and student services are covered. Visitors to campus are introduced to Arkansas State University via a campus tour with the Chancellor's ambassadors and an engaging presentation from professional recruitment staff. We provide services to groups of all sizes and ages who have an interest in Arkansas State University. You may reach the Office of Recruitment by calling 870-972-ASU1(2782) or email recruitment@astate.edu.

CAREER SERVICES

Career Services offers a variety of services to help students meet their career-related goals. Services are free to students and include the following: individual career coaching, access to job listings, career-related workshops, and career fairs. Career coaching and workshop topic areas include resume development, interview preparation, exploring academic majors, employment trend analysis, and job search.

Students can receive individual career coaching to assess and explore opportunities related to their major, career plans, and goals. Career coaching can be done either in-person, by phone, or virtually using Skype. Access is provided to part-time job opportunities, federal work-study positions, internships, and career positions with jobs listings posted on a regular basis.

Workshops are presented to classes and student groups throughout the year. Speakers include industry professionals, alumni, and others with subject-matter expertise.

Career fairs take place during the Fall and Spring semesters and attract companies from a variety of industries for both internship and career positions. Students can also be part of the on-campus inter¬view program where they can have the opportunity to interview with companies seeking job candidates.

Career Services is located in Suite 2167 of the Student Union and at careers.astate.edu. They can be contacted at careers@astate.edu or 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.

Services are performed by psychologists, counselors, counseling interns, and counseling practicum students. All clinical staff are licensed and services are always performed by those whose skills and training are appropriate to the task.

The center offers daily drop-in hours when students can see a counselor without an appointment and discuss any concerns they may have. Both individual and group counseling are available for discussion of stress management, academic performance issues, depression, anxiety, grief, or other concerns about handling the demands of college life. The center also offers outreach workshops addressing various student concerns such as choosing a major, sexual assault prevention, and alcohol and drug abuse.

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

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

MULTICULTURAL CENTER

The Multicultural provides educational, cultural, and social programs and initiatives that support student success for all students with specific concentration on minority and underrepresented student populations.

The Center's programming promotes awareness, understanding, and appreciation for all. The Multicultural Center is located on the third floor of the Carl R. Reng Student Union. For more information on how to get involved with the Center, please call 870-680-4052.

DISABILITY SERVICES

Disability Services (DS) specializes in facilitating full and equal access to ASU-Jonesboro and sister campus services, programs, and activities for students with disabilities. The philosophy of Disability Services is inclusion for students, while maintaining high standards of academic excellence and student satisfaction through the provision of accommodations that support students' personal, academic, social and career development. Students who are allowed access and accommodations are likely to achieve academically and develop their confidence to navigate college life and excel in a university setting.

Disability Services offers a variety of support services, including; mentoring and transitional services, alternative testing options, advocacy, note-taking services, physical access to the classroom, buildings, and grounds; assistive technology, software training and alternative textbooks format. Students may participate in several DS programs that promote volunteerism, including; The Ghostwriter Program, Academic Success and Access Program (ASAP), Golf Cart Program, and Delta Sigma Omicron, a fraternity dedicated to promoting advocacy and inclusion of students with disabilities at Arkansas State University. 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, institution, and state sources.

Detailed information and financial aid application forms may be obtained by visiting our website at http://www.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
Federal Parent Loan for Undergraduate Student

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
Workforce Improvement Grant (WIG)

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

University Aid Programs

Academic Scholarships - Descriptions and guidelines for ASU institutional scholarships can be found at http://www.astate.edu/finaid/.

Privately Funded Scholarships - Description and guidelines can be found at http://www.astate.edu/a/finaid/.

Athletics - Information can be found at www.astateredwolves.com

Fine Arts - Applied Music, Art, Band, Debate and Theatre can be found at http://www.astate.edu/college/fine-arts/index.dot

ROTC Scholarships - Army ROTC Scholarship information can be found at *http://www.astate.edu/a/military-science/prospective-students/rotc-scholarships/*

NEW STUDENT REGISTRATION

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

PARKING SERVICES

The Department of Parking Services provides many services to students and the campus community. The department issues and manages over 10,000 parking permits annually. Parking permits are available online through the myCampus web portal. The department also manages the operation of the campus parking infrastructure including commuter and residential parking lots, several hundred contract parking spaces, parking structures, non-residential gate access, parking meters, and pay stations. Parking Services personnel enforce the campus parking regulations and process parking citation appeals. More information is available at http://parking.astate.edu. Parking Services can be contacted at 870-972-2945 or parking@astate.edu.

RED W.O.L.F. CENTER/CAMPUS RECREATION

The Red W.O.L.F. Center and Intramural Sports program provide students with a wide variety of activities that contribute to their overall health, social development, and well-being. The Red W.O.L.F. Center is an $18 million state-of-the-art fitness facility. The center opened in January 2010, with an indoor track, three basketball courts, a MAC gym (soccer), dance studio, free weight and cardiovascular areas, spinning studio, and assessment rooms. Students have the opportunity to participate in programs such as group fitness classes, fitness challenges, nutrition programs, weight loss/maintenance programs, and personal training and fitness assessments. The Intramural Sports program offers a wide range of individual and team sports. The Red W.O.L.F. Center and Intramural Sports offer a large variety of activities guaranteed to interest all.

Red W.O.L.F. Center, 870-972-3800.
Hours: Monday through Thursday, 6:00 a.m. to 11:00 p.m.
Friday, 6:00 a.m. to 10:00 p.m.
Saturday & Sunday, 2:00 p.m. to 10:00 p.m.

RESIDENCE HALL GOVERNANCE

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

RESIDENCE LIFE

The Department of Residence Life offers on-campus housing for full time college students in one of our residence halls: Arkansas Hall, Kays Hall, Northpark Quads, University Hall, Honors Living Learning Community, STEM Den, and ROTC. The Greek Village consists of five sorority houses for members who are at least sophomore status. Students who have earned at least sixty hours of college credit can reside in either the Red Wolf Den or Collegiate Park apartment complex. Housing is also available for students with families as well as nontraditional (undergraduates who are at least 26 years of age) and graduate students in The Village.

All single undergraduate students who have completed fewer than thirty (30) hours and are under twenty-one years of age must live on campus, unless living with parents or having been released by committee.

Any single student under twenty-one years of age with fewer than thirty (30) hours who plans to reside off campus in compliance with the above regulation must file an off-campus housing form with the Residence Life Office, P.O. Box 2774, State University, AR 72467. Single rooms are offered on a space-available basis only.

Any inquiries concerning student on-campus housing should be directed to the Office of Residence Life on our website at http://www.astate.edu/a/residence-life/ or by phone at 870-972-2042. A $100.00 deposit is required to reserve university housing.

STUDENT ACTIVITIES BOARD (SAB)

The Student Activities Board is composed of a president and six directors overseeing the following committees: Carl R. Reng Student Union Events, Special Events, Spirit Club, Multicultural Affairs, Issues and Awareness and Public Relations. SAB welcomes your participation by joining one of its committees—GET INVOLVED! Contact the office at 870-972-2055.

STUDENT AFFAIRS

The division of Student Affairs is under the leadership of the vice chancellor for Student Affairs. The goal of Student Affairs is to provide students the best possible campus environment for living and learning, and provide opportunities for them to grow academically, intellectually, socially and professionally. 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 the diverse campus 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 233. Visit the website at http://www.astate.edu/a/student-affairs/, 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 can found on the Student Affairs website at http://www.astate.edu/a/student-affairs/.

The guiding principles of university regulations are to promote student responsibility and accountability while protecting the community as a whole. The University has jurisdiction over any student or student organization alleged to have violated the Standards of Student Conduct. Off-Campus violations can also subject a student to the jurisdiction of the University Conduct System. Every student is responsible for living up to the standards that Arkansas State University has put forth in its policies.

Students are expected to conduct themselves in an appropriate manner and conform to the set Standards of Student Conduct at all times. Students who fail to abide by the University policies set forth in the Standards of Student Conduct fall under the jurisdiction of the Office of Student Conduct and the conduct process. Students who are found responsible for violating institutional policies will be sanctioned

in an educational manner. Sanctions that can be imposed as well as the conduct process can be found on the Student Affairs website at http://www.astate.edu/a/student-affairs/.

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-J campus may receive treatment for minor illnesses, injuries, and some 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, a registered nurse and a licensed practical nurse.

The SHC is located on Stadium Boulevard adjacent to First Care and the Sports Medicine facilities. The entrance to the facility faces the football stadium parking lot. The SHC is open Monday through Friday, from 8:00 a.m. to 5:00 p.m. Appointments are preferred and daily sick call times are from 8:00 to 9:00 a.m. and 1:00 to 2:00 p.m. for acute illnesses. Immunizations are administered daily. Students are encouraged to arrive between 11:00 a.m. and 1:00 p.m. for faster service.

Students who become ill or injured during the hours the center is closed may go to the

First Care Acute Care Center located adjacent to the SHC, or to one of the local emergency rooms at St. Bernards Medical Center or NEA Baptist Memorial Hospital. Other walk-in clinics also are available within Jonesboro city limits.

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 an 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. For appointments, call 870-972-2054.

Visit the Student Health Center website at http://www.astate.edu/a/student-health-center/.

CARL R. RENG STUDENT UNION

The Carl R. Reng Student Union provides students with a centralized location for attending to meeting 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: Student Account Services, Cashier's Window, Financial Aid and Scholarships, Leadership Center, Career Management Center, Counseling Center, Disability Services, Admissions, Records and Registration, 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.

Campus Information, located on the second level of the Carl R. Reng Student Union, is your source for happenings at ASU. The staff is trained to answer questions about the Carl R. Reng 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 Carl R. Reng 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 Carl R. Reng Student Union are brought to Campus Information and secured and documented until claimed. Whether helping a student find a classroom or providing information about activities on campus, the Carl R. Reng 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 and societies to coordinate the administration and security of standardized testing programs. Through our Testing Center,

students seeking admission to specialized undergraduate degree programs or postgraduate programs can take the required exams on any national test date. One program gives students the opportunity to earn college credit-by-exam. The Testing Center also administers exams to individuals from the surrounding communities to certify proficiency in the fields of teaching, contracting, or counseling.

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

Credit-by-exam
College Level Exam Program (CLEP) **

Undergraduate Admission
ACT Assessment
Test of English as a Foreign Language (TOEFL)**
COMPASS Diagnostic Assessment **
SAT

Assessment
COMPASS Placement Exam **
PRAXIS Academic Core**

Post-Graduate
Graduate Management Admission Test (GMAT) **
Graduate Record Exam (GRE)**
Law School Admission Test (LSAT)
Miller Analogies Test (MAT)**

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 twenty-two officers. The office is open 24 hours a day, with four police radio dispatchers. There are university police officers on duty around the clock, 365 days a year.

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

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

Note: Tuition and fees for students using Post 9/11 educational benefits will not be submitted until after the 11th class day.

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 Official in the Office of Admissions, Records and Registration 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://www.astate.edu/a/beck-pride-center/.

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 ASU

The university encourages students to engage in various types of community service opportunities that will enhance their college experience. The Volunteer ASU council was established during the 2012-2013 school year and is comprised of student leaders providing the ASU community a place to serve, learn, and make a statement by promoting and coordinating volunteer opportunities and building relationships within the community. This council puts together several campus-wide activities each semester to allow students to give back such as the Volunteer Fair, Alternative Spring Break, Blood Drives, and others.

In general, student volunteers are referred to organizations/agencies in the immediate area and will receive appropriate training from the agency prior to the volunteer work. Interested students should call the Leadership Center at (870) 972-2055 for more information on upcoming opportunities and how to get involved with Volunteer ASU.

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
- Alpha Tau Alpha
- ASU Rodeo Club
- Block and Bridle / Pre-Vet Club
- Collegiate FFA
- Collegiate Farm Bureau
- Delta Tau Alpha
- Plant Science Club

College of Business

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

College of Education and Behavioral Science

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

College of Engineering

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

College of Fine Arts

- AIGA ASU Chapter
- Arkansas Print Club
- ASU Art Student Union
- ASU Guitar Guild
- ASU Orchestra Society
- ASU Singers & Concert Choir
- Piano Society

College of Humanities and Social Sciences

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

College of Media and Communication

- American Advertising Federation
- Association for Women in Communications
- Gamma Epsilon Tau
- National Broadcasting Society
- National Press Photographers Association

Public Relations Student Society of America
Society of Professional Journalists
Undergraduate Student Research Association

College of Nursing and Health Professions
ASU Nurse Anesthesia Student Association
ASU Student Social Work Organization
ASU Student Nurses Association
National Student Speech, Language, Hearing Association
Physical Therapy Student Association
Student Association of Clinical\Laboratory Professionals
Student Association of Radiologic & Imaging Sciences

College of Sciences and Mathematics
American Chemical Society
Association of Computing Machinery
ASU Medical Arts Club
Mathematical Association of America
Pre-Pharmacy Club
Society of Physics Students
Upsilon Pi Epsilon

Department of Military Science
ROTC Ranger Challenge Platoon

The Honors College
Honors College Association

THE ASU ALUMNI ASSOCIATION

By building partnerships that involve alumni and friends in the life and work of Arkansas State University, Alumni Association members become a valuable part of ASU's success. With 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 Homecoming, reunions, 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 local and national discounts, the Inside-ASU e-newsletter and the award-winning magazine, *Voices*. For information, call (870) 972-2586 or visit http://www.astatealumni.org/.

THE FINE ARTS CENTER ART GALLERY

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

HONORARY AND PROFESSIONAL ORGANIZATIONS

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

AGRICULTURE BUSINESS—A professional organization for agriculture business students to promote academic and leadership qualities.
ALFRED R. SKOOG MEMORIAL CHAPTER OF THE AMERICAN CHORAL DIRECTORS ASSOCIATION—To further the knowledge and enjoyment of music in our schools and community.
THE ALPHA EAST ARKANSAS NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS—For students studying to become professional engineers.
ALPHA ETA SOCIETY—National honorary society for students in allied health.

ALPHA LAMBDA DELTA—National scholastic honorary society for freshmen.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ASU STUDENT BRANCH OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS—An organization to advance the professional development of students interested in electrical engineering as a profession.

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

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

BETA GAMMA SIGMA—National scholastic honorary society for business majors.

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

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

COLLEGIATE FFA—For students majoring in vocational agriculture.

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

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

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

GAMMA EPSILON TAU—National Organization for students in Graphic Communications.

GAMMA IOTA SIGMA—Professional collegiate insurance fraternity.

GAMMA SIGMA SIGMA—A national service sorority.

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

KAPPA MU EPSILON—National honorary fraternity for math majors.

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

LAMBDA ALPHA EPSILON—National honorary society for law enforcement.

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

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

LAMBDA PI ETA—National Communication Association for Speech Communications majors.

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

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

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

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

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

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

NATIONAL SOCIETY OF LEADERSHIP AND SUCCESS—Assists college students in achieving their goals and bettering their lives, in the process building leaders who make a better world.

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.

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

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

PI KAPPA DELTA—National honorary debate and forensics fraternity.

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

PI SIGMA ALPHA—National honor society for outstanding students in political science.
PLANT SCIENCE CLUB—Professional organization promoting Agronomy and Horticulture.
PRE-LAW CLUB—Promotes interest and knowledge in the law and the legal profession as well as prepare students for law school and taking the required entrance exam the LSAT.
PRE-PHARMACY CLUB—Encourages greater understanding between students and the pharmacy profession.
PRINT CLUB—Encourage the art of printmaking and collecting through cooperative purchasing of supplies and fundraising to assist in printmaking objects.
PSI CHI—To advance the science of psychology and to encourage, stimulate, and maintain scholarship of the individual members in all fields, and especially in psychology.
PUBLIC RELATIONS STUDENT SOCIETY OF AMERICA—National organization for students in public relations.
REHABILITATION COUNSELING ASSOCIATION—To advance the profession of Rehabilitation Counseling through the establishment of professional ethics, public understanding and supportive programs, which assist all persons with disabilities to become self-sufficient and contributing members of society.
SIGMA ALPHA IOTA—National professional music fraternity.
SIGMA ALPHA LAMBDA – Promotes and rewards academic achievement through community service, personal development, and lifelong professional fulfillment.
SIGMA PI SIGMA—National physics honorary society for students engaged in physics and related activities.
SIGMA THETA TAU—National honor society of nursing that recognizes superior scholarship and leadership achievement of nursing students at the baccalaureate and graduate levels. Membership is by selection and petition.
SIGMA XI—National scientific honorary fraternity for faculty members engaged in research.
SOCIETY FOR HUMAN RESOURCE MANAGEMENT—For persons interested in personnel management or labor unions. It is affiliated with the national organization which has a membership of over thirty thousand, three hundred professional chapters and two hundred student chapters.
SOCIETY OF MANUFACTURING ENGINEERS—To guide future engineers and provide exposure to today's growing industry.
SOCIETY OF PHYSICS STUDENTS—National organization for students majoring in Physics.
SOCIETY OF PROFESSIONAL JOURNALISTS—To promote, through service by students and professional journalists, the First Amendment and Freedom of Information, and to encourage more responsible media performance.
SOCIETY OF WOMEN ENGINEERS—A service organization that empowers women to succeed and advance in the field of engineering, and to be recognized for their life-changing contributions as engineers and leaders.
STUDENT ACTIVITIES BOARD—To provide diverse sources of entertainment and cultural activities for the student body as a whole.
STUDENT ARKANSAS EDUCATION ASSOCIATION—For all students who are planning to enter the teaching profession.
STUDENT ART EDUCATION ASSOCIATION—Local branch of Art Educators and the National Art Education Association.
STUDENT ASSOCIATION OF RADIOLOGIC AND IMAGING SCIENCES—To promote the science of medical imaging and radiation therapy and worthy projects in the community.
STUDENT ATHLETE ADVISORY ORGANIZATION—Promote the positive image of the student- athletes to the administration, faculty and student body of Arkansas State University.
STUDENT COUNCIL FOR EXCEPTIONAL CHILDREN—National organization for students in special education to promote the profession and welfare of exceptional students.
TAU BETA SIGMA—National honorary organization to promote the existence and welfare of the university bands.

UPSILON PI EPSILON—International honor society for the computing sciences. Recognizes academic excellence at both the undergraduate and graduate levels in the computing sciences.
WOMEN IN SCIENCE—To promote women in careers in the scientific fields.

RELIGIOUS ACTIVITIES

Arkansas State University is a state-supported institution and therefore nondenominational, but is distinctly interested in the religious life of its students and encourages them to attend regularly the place(s) of worship of their choice. Active Groups are:

Baptist Collegiate Ministries	Latter-Day Saints Student Association
Campus Christian Fellowship	Missionary Baptist Student Fellowship
Campus Outreach	Revolution Campus Ministry
Catalyst Ministries	Wesley Center
Catholic Newman Center	Wolflife Campus Ministry
Chi Alpha	

Churches of all the leading denominations are located in Jonesboro. They are actively interested in the young people attending the university and welcome them to all their services.

SOCIAL ORGANIZATIONS

Arkansas State University recognizes seven national sororities and ten national fraternities. All of these social organizations encourage high scholarship, social training, and good citizenship. For more information contact the Leadership Center at 870-972-2055.

Sororities
Alpha Gamma Delta
Alpha Kappa Alpha
Alpha Omicron Pi
Chi Omega
Delta Zeta
Zeta Phi Beta
Zeta Tau Alpha

Fraternities
Alpha Gamma Rho
Alpha Phi Alpha
Alpha Tau Omega
Kappa Alpha
Lambda Chi Alpha
Omega Psi Phi
Pi Kappa Alpha
Sigma Chi
Sigma Pi
Iota Phi Theta
Phi Beta Sigma

SPECIAL INTEREST ACTIVITIES

All students enrolled at Arkansas State University are urged to take part in the numerous special interest activities:

ASU Chapter of the NAACP: To foster the improvement of the political, educational, social and economic status of minorities; encourage the elimination of racial prejudice; and stimulate an appreciation of minority contributions to society.
ASU Cheerleaders: To represent the student body at various athletic functions throughout the year.
ASU Gaming Society: To provide and organize role-playing games, collectible card games, and strategy board games for ASU students.
ASU Honors Association: To foster social contact, the exchange of ideas among honors students and faculty, and encourage intellectual freedom, achievement, and growth among its members.
ASU Rugby Football Club: To offer any full time student or faculty member the opportunity to play and travel to other universities to play the sport of rugby.
ASU Rodeo Club: It is our mission to provide the opportunity for students to earn a college degree while pursuing the sport of college rodeo.
ASU Wildlife & Fisheries Club: Founded in 1994, the mission of the Wildlife and Fisheries Club is to encourage professionalism and high standards of scholarship among individual members. The Wildlife Club focuses on wildlife needs, problems, and events in the local area and it encourages the understanding of wildlife resource management sciences. The club regularly invites speakers to talk about wildlife and fisheries issues, performs fund raisers, and community service projects related to wildlife. The Wildlife Club participates annually in the Southeastern Wildlife Conclave, a regional competition for wildlife students.
Anime Club: To explore Japanese Culture through popular media.
Arkansas State Student Activist: This organization works with the community of Jonesboro to provide a structure that will allow the community to be more committed with furthering the education of its youth.
Ballroom Dancing Club: To create affordable opportunities for ballroom dancing and dance instruction as well as it promotes the benefits of ballroom dancing to the students, faculty, staff of ASU-J and the Jonesboro community.
Black Student Association: To develop university spirit among Black students, to promote high academic standards, to enhance social life, to promote racial harmony, and to serve as a medium between the Black student and administrative bodies.
Circle of Trust: Provides an avenue for retaining African-American females in higher education settings by providing setting standards of class, exceeding expectations, and overcoming barriers.
College Against Cancer: Promotes healthy lifestyles, educate the campus on cancer research, early detection, and prevention. They also organize the ASU-J Relay for Life.
College Democrats: For those students interested in State and National Democratic Party activities.
College Republicans Club: For those students interested in State and National Republican Party activities.
College Student Personnel Association: Provides academic support and mentorship to members. It provides workshop and other opportunities to enhance the career and professional development of the members. Lastly, it works to increase its member's knowledge on current issues and trends in the Student Affairs profession.
Delta Sigma Omicron: Provides advocacy for students who are disabled on the ASU-J campus. Serve as a leader in the community and presenting opportunities of live that are available to people with disabilities.
Diamond Dolls: Serve as facilitators and a spirit organization for the ASU Baseball team.
Everybody Doesn't: Empowers the college students to become leaders and take active roles on campus in the fight against drug and alcohol abuse.
Forensic Science Club: Promotes involvement in forensic endeavors to all students at ASU-J.

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

Gay-Straight Alliance: To help students and faculty understand the Lesbian, Gay, Bisexual, and Transgendered community. This ranges from workshops, events, and other activities to further building a safe environment for LGBT people at ASU.

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.

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

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.

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

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

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

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

Muslim Student Association: To assist people in understanding Islam.

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

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

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

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

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

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

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

Piano Society: To afford students and music lovers the opportunity to listen to live piano music, perform, attend off campus recitals, and maintain practice pianos in good working order in the College of Fine Arts.
Psychology Club: The purpose of the ASU Psychology Club is to promote interest in the field of psychology at ASU, to serve ASU and our community in varying ways in order to promote good will and charity, to enhance the knowledge of students interested in psychology, and to provide an opportunity for students to gain experience in psychological research.
Red Wolf Dancers: To perform drill and pom-pom activities at home football and basketball games.
Residence Hall Association: Serves as the governing body to all residence hall governance councils. RHA provides campus wide programming for students that live in on campus housing.
Rifle Team: In working with the ASU Armory/ROTC Program this groups works to teach marksmanship and to compete on at collegiate level competitions.
Rodeo Team: Provides the opportunity to learn the sport of college rodeo.
Scarlet Chess Club: Designed to introduce chess to the university at all levels of play.
Society of Neuroscience: Participants share a common interest and knowledge in Neuroscience. They share that knowledge with the Jonesboro and ASU communities respectively.
Society of Physics Students: Promotes the public interest of physics and provides academic opportunities for ASU-J students that are interested in Physics and related fields.
Sports Management Club: Provides an opportunity for academic and career success in the area of sports management.
Student Association of Clinical Laboratory Professionals (SACLP): To promote the awareness of the clinical laboratory sciences and advance the professional development of students in clinical laboratory education.
Student Association of Radiologic and Imaging Sciences (SARIS): To promote the science of radiologic technology and worthy projects in the interest of students in the radiologic sciences.
Ultimate Frisbee Association: Promotes the fellowship and fitness through athletic activity. This organization sponsors the annual Chad Lewis Memorial Ultimate Tournament.
United Voices Gospel Choir: To serve as a medium for God through songs that provide uplifting spirits both on and off campus, to sing praises unto the Lord, and to help others find the way by being a friend to all.
University Hall Council: To serve as a governing body for University Hall.

For an up-to-date listing please contact the Leadership Center at 870-972-2055.

STUDENT GOVERNMENT ASSOCIATION (SGA)

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, 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 online and twice a week in print by the University during fall and spring semesters. A faculty member of the Department of Media serves as advisor upon appointment by the dean of the College of Media and Communication 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 344 patrons, houses state-of-the-art lighting, sound and rigging systems. A program of student-directed laboratory theatre productions is presented in the black box experimental theatre, which seats up to 200 in a variety of configurations. Participation in these production programs provides experience not only for drama students but also for all students of the university, who are encouraged to take part in University Theatre activities.

Academic Programs

DEGREE PROGRAMS AND MAJORS

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

Associate of Arts (A.A.)

En Route Associate of Arts (A.A.) - General Education

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

Clinical Laboratory Science
*Crime Scene Investigation
Disaster Preparedness/Emergency Mgmt.
Law Enforcement
*Law Enforcement Administration
Physical Therapist Assistant
Radiologic Technology

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

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 Science (A.S.) - General Education

Bachelor of Arts (B.A.)

Art (emphasis in): —Art History
Chemistry (emphasis in): —Pre-Pharmacy
Communication Studies —Interpersonal Communication —Organizational Communication —Public Communication
Computer Science
Criminology
Economics (emphasis in): —Pre-Law
English

History
Music
Philosophy
Political Science
Sociology
Theatre (emphasis in): —Acting —Design Technology —Directing
World Languages and Culture —French —Spanish

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

Bachelor of Applied Science
Bachelor of Applied Science - Renewable Energy Technology

Bachelor of General Studies (B.G.S.)

General Studies

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

Art (emphasis in): —Art Education —Studio Art
Graphic Design (emphasis in): —Graphic Design —Digital Design

Bachelor of Music (B.M.)

Music (emphasis in): —Composition —Instrumental Performance —Keyboard Performance —Vocal Performance

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

Instrumental Music
Vocal Music

Bachelor of Science (B.S.)

Accounting
Athletic Training
Biological Sciences (emphasis in): —Biology —Botany —Environmental Biology —Pre-professional Studies —Zoology
Biotechnology

Business Administration —General —Sustainable Business Practices
Business Economics
Chemistry (emphasis in): —Chemistry —Pre-professional
Clinical Laboratory Science
Communication Disorders
Computer and Information Technology
Computer Science
Creative Media Production (emphasis in): —Audio/Video Production —Graphic Communications —Sports Production —Narrative Media
Disaster Preparedness/Emergency Mgmt.
Dietetics
Exercise Science
Finance (emphasis in): —Banking —Financial Management
Health Promotion
Health Studies
International Business
Global Supply Chain Management
Management (emphasis in): —General Management —Hospitality Management —Human Resource Management
Marketing (emphasis in): —Logistics —Marketing Management
Mathematics
Multimedia Journalism (emphasis in): —Broadcast Journalism —News Editorial —Photojournalism —Sports Reporting
Physics
Psychology
Sport Management:
Strategic Communication (emphasis in): —Advertising —Public Relations
Technology (emphasis in): —Computer Aided Drafting and Design —Computer Systems —Manufacturing-Industrial —Technology Management —Technical Studies

Wildlife Ecology and Management

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

Agricultural Business (emphasis in): —Agricultural Communications —Agricultural Economics —Agricultural Finance —Agricultural Marketing and Management —Farm Management
Animal Science (emphasis in): —Equine Management —Pre-Veterinary —Production and Management
Agricultural Studies (emphasis in): —Agricultural Education —Agricultural Science —Agricultural Systems Technology
Plant and Soil Science (emphasis in): —Agronomy —Environmental Horticulture —Science and Research

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

Early Childhood Edu. (Pre K-Grade 4)
English
General Sciences (emphasis in): —Biology —Chemistry —Physics
Mathematics
Middle-Level Education (Grades 4-8)
Physical Education
Social Science
World Languages and Culture —French —Spanish

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

Civil Engineering
Electrical Engineering
Mechanical Engineering

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

Civil Engineering

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

Electrical Engineering

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

Mechanical Engineering

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

Bachelor of Science in Interdisciplinary Studies

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

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

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

Radiologic Sciences (emphasis in): —Imaging Specialist *Computed Tomography* *General Radiography* *Mammography* —Diagnostic Medical Sonography —Magnetic Resonance Imaging —Nuclear Medicine Technology —Radiation Therapy —Radiology Management

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

Bachelor of Social Work

MINORS OFFERED

Arkansas State University offers 61 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.

Minor	Req. Hours
Accounting	21 hours
African-American Studies	18 hours
Agricultural Business	18 hours
Agricultural Mechanics	18 hours
Animal Science	18 hours
Art	21 hours
Art History	18 hours
Biology	19 hours
Chemistry	24 hours
Children's Advocacy Studies	21 hours
Cognitive Science	18 hours
Communication Studies	18 hours
Computer and Information Technology	18 hours
Computer Science	18 hours

Creative Media Production	19 hours
Criminology	18 hours
Crop Consulting and Agronomic Services	18-19 hours
Economics	18 hours
Electronic Commerce	18 hours
Engineering	23 hours
English	18 hours
Entrepreneurship	18 hours
Finance	18 hours
Financial Wealth Management	18-21 hours
Folklore Studies	18 hours
French	18 hours
General Business	21 hours
German	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	18 hours
International Business	18 hours
International Studies	18 hours
Leadership Studies	22-23 hours
Logistics	18 hours
Management	18 hours
Marine Science	18 hours
Marketing	18 hours
Mathematics	21 hours
Medieval Studies	18 hours
Military Science and Leadership	20-21 hours
Modern European Studies	18 hours
Multimedia Journalism	19 hours
Music	22 hours
Philosophy	18 hours
Physics	18 hours
Plant Science	18 hours
Political Science	18 hours
Psychology	21 hours
Religious Studies	18 hours
Renewable Energy Technology	18 hours
Sociology	18 hours
Spanish	18 hours

Spatial Technologies and GIS	18 hours
Strategic Communication	19 hours
Statistics	20 hours
Theatre	21 hours
United States History	18 hours
Women and Gender Studies	18 hours
Writing Studies	18 hours

ARMY ROTC PROGRAM

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

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

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

COMBINED-DEGREE PROGRAMS

ASU students who enroll in approved dental, medical, pharmacy, or law schools before receiving degrees at Arkansas State University may be eligible to transfer up to 30 credit hours from the professional school to apply toward completion of their baccalaureate degree at ASU. To qualify for a combined degree, students must meet the following requirements.

1. The last 30 credit hours immediately prior to entrance into the professional school must be completed in residence at Arkansas State University.
2. All requirements for the degree except no more than 30 transferable credit hours must be completed. The 30 transfer hours must have prior approval of the department chair.
3. A written statement of eligibility for the degree must be obtained from the Office of Admissions, Records and Registration

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

PRE-PROFESSIONAL PROGRAMS

There is no specific degree awarded in the pre-professional programs. It is common practice in the pre-dental, pre-medical, pre-physical therapy, pre-optometry, pre-veterinary and similar programs to work toward one of the bachelors degrees offered by the university. There is no one degree specified by medical or dental schools, but most students in these pre-professional programs major in chemistry, physics, biological sciences, or interdisciplinary studies.

Pre-Law Program

Prospective pre-law students should give careful consideration to the formulation of a definite plan for pre-law study. This should be based on the student's strengths and weaknesses, interests, and personal objectives in studying law. In general, the pre-law student should place primary emphasis on the acquisition of excellent methods of study, thought, and communication rather than on a specific body of factual knowledge. These skills can be acquired in a number of different areas, and successful law students and lawyers have college majors in almost every conceivable field.

A prospective student interested in pre-law should select a department in which to major. That department will have a pre-law advisor 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 advisors in the College of Business or the College of Humanities and Social Sciences.

Pre-Professional Advising Within Specific Colleges

(Refer to the index for page references of each pre-professional area offered.)

College of Agriculture
pre-forestry
pre-veterinary medicine
College of Humanities and Social Sciences
pre-law
College of Sciences and Mathematics
pre-medical
pre-dental
pre-optometry
pre-pharmacy
pre-chiropractic
pre-dental hygiene
College of Business
pre-law
College of Nursing and Health Professions
pre-dental hygiene
pre-respiratory therapy
pre-occupational therapy
pre-physical therapy

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

TECHNICAL CERTIFICATE PROGRAMS

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

A Certificate of Proficiency in Business Information Systems training is awarded upon completion of 24 semester hours of specified courses. The courses presented for this certificate must include ENG 1003, ENG 1013, and a minimum of 9 semester hours of Computer & Information Technology (CIT) courses.

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

SPECIAL PROGRAMS

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

Summer Sessions

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

Special Studies Courses

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

course numbers for such programs, which must be approved through normal university curriculum channels, will always be in the 90 series. The letter prefix will show the department offering the course, the first digit will indicate the level of study, and the last digit will show the hours of credit. Credit earned in some special studies courses may not be applicable toward a degree. A zero as the first digit in the course number will designate such non-degree-credit courses.

COMPRESSED VIDEO NETWORK PROGRAMS

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

Weather conditions or academic schedules at the various locations will on occasion require the recording 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 recorded. Students who are unable to attend the classes when they are originally conducted may view the recordings in lieu of attending the scheduled class sessions. CVN sites are located at A-State Jonesboro, ASU-Beebe, ASU-Mtn. Home, A-State Paragould, ASU-Newport, Arkansas Northeastern College, East Arkansas Community College, and Mid-South Community College. A-State 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 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 online 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.

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).

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.

HIGH SCHOOL CONCURRENT PROGRAM

University College 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.

ARKANSAS STATE UNIVERSITY DEGREE CENTERS

Arkansas State University has partnerships with five community colleges to provide various degrees on those college sites. Academic Affairs is the administering unit for those degree centers. Any questions concerning the following sites may be directed to (870) 972-2030.

Arkansas Northeastern College

Degrees offered are:

B.A. Criminology
B.A. Sociology
B.A.S. (Applied Sciences)
B.S. Business Administration
B.S. Technology
B.S.E. Early Childhood Education
B.S.E. Middle Level Education

Arkansas State University-Beebe

Degrees offered are:

A.A.S. Nursing (Traditional or LPN to RN Fast Track)
B.A. Criminology
B.A.S. (Applied Sciences)
B.S. Accounting
B.S. Business Administration
B.S. Management
B.S. Technology
B.S.A. Agriculture Business
B.S.E. Early Childhood Education
B.S.E. Mid-Level Education

East Arkansas Community College

Degrees offered are:

B.A. Criminology
B.S. Business Administration

Arkansas State University - Mtn. Home

Degrees offered are:

A.A.S. Nursing
B.A. Criminology
B.S. Accounting
B.S. Management
B.S.E. Early Childhood Education
B.S.E. Mid-Level Education

Mid-South Community College

Degrees offered are:

A.A.S. Nursing
B.A. Criminology
B.S. Business Administration
B.S.E. Early Childhood Education
B.S.E. Middle Level Education

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 at http://www.astate.edu/college/graduate-school/ or on the Office of Admissions, Records and Registration bulletin site at http://www.astate.edu/a/registrar/students/.

The Graduate School can be contacted at Dean B. Ellis Library Building, room 619, or from the following address:

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

GRADUATE SCHOOL COMPUTATION OF GRADES FOR ADMISSION PURPOSES

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

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:

Agriculture (MSA) - All Concentrations
Chemistry (MS)
Computer Science (MS)
Political Science (MS)
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 his/her advisor, the course professor, and the Graduate Dean (forms available in the Graduate Office),
4. enroll in no more than nine hours of graduate coursework for undergraduate credit.

For graduate credit:

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

Enrollment under this condition is limited to one term. Students will receive graduate credit only if a grade of "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.

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 Administration
Business Technology
Chemistry
Community College Administration
Communication Studies
English
History
Music Education
Physical Education
Political Science
Reading
Sociology
Vocational-Technical Administration

Specialist in Education

Educational Leadership
Psychology and Counseling —Mental Health Counseling —School Psychology —Flex Track
Reading

Master of Accountancy

Master of Arts

Biological Sciences
Communication Studies

Criminal Justice
English
History —Public —Global
Political Science
Sociology

Master of Business Administration

Concentrations
Healthcare Administration International Business Finance Logistics Management Information Systems

Master of Communication Disorders

Master of Engineering Management

Master of Music

Concentrations
Performance
Composition
Collaborative Piano
Piano Pedagogy

Master of Music Education

Master of Public Administration

Master of Rehabilitation Counseling

Master of Science

Biology
Chemistry
College Student Personnel Services
Computer Science
Disaster Preparedness and Emergency Management
Early Childhood Services
Environmental Sciences
Exercise Science
Mathematics
Sports Administration

Master of Science in Agriculture

Agricultural Business and Economics
Agricultural Education

Animal Science
Plant and Soil Science
Vocational-Technical Administration

Master of Science in Education

Curriculum and Instruction
Early Childhood Education
Educational Theory and Practice
Educational Leadership
Middle Level Education
Reading
School Counseling
Secondary Education Teaching Fields —Biology —Business Technology —Chemistry —English —Mathematics —Physical Education —Social Science
Special Education —Gifted, Talented, Creative —Instructional Specialist P-4 —Instructional Specialist 4-12

Master of Science in Engineering

Master of Science in Mass Communications

Journalism
Radio-Television

Master of Science in Nursing

Adult Health Nursing
Family Nurse Practitioner
Nurse Anesthesia

Master of Social Work

The General Education Program

STATEMENT OF MISSION FOR THE GENERAL EDUCATION PROGRAM OF ARKANSAS STATE UNIVERSITY

The general education program develops a foundation and motivation for the lifelong pursuit of learning in undergraduate students at Arkansas State University by introducing them to a broad range of essential areas of knowledge that will enable them to think critically and participate ethically in a democratic nation and 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. ***Using mathematics***. Students should be able to use, understand and apply basic mathematical skills in practical applications.
3. ***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.
4. ***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.
5. ***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.

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 and Mathematics 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 advisors should check the general education requirements specified by each college for its various majors. Except where modifications are noted for specific degree programs, all baccalaureate degree candidates are required to complete the following general education curriculum.

GENERAL EDUCATION CURRICULUM

FOR BACCALAUREATE, ASSOCIATE OF ARTS AND ASSOCIATE OF SCIENCE DEGREES

Communication: *Six (6) hours required* *Three (3) hours optional (see Departmental Option below)*	**Required Credit Hrs.**
COMS 1203, Oral Communication ENG 1003, Composition I (*required)* ENG 1013, Composition II (*required)*	6
Math: *Three (3) hours required;* *MATH 1023 - College Algebra is a requirement for certain degrees which will not be satisfied by MATH 1043 - Quantitative Reasoning*	**Required Credit Hrs.**
MATH 1023, College Algebra MATH 1043, Quantitative Reasoning Any MATH course that requires MATH 1023 as a prerequisite.	3
Science: *Eight (8) hours required*	**Required Credit Hrs.**
Physical Science - *Four (4) hours required* CHEM 1013 **AND** 1011, General Chemistry I and Laboratory CHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry and Laboratory GEOL 1003 **AND** 1001, Environmental Geology and Laboratory PHSC 1014, Energy and the Environment PHSC 1203 **AND** 1201, Physical Science and Laboratory PHYS 1103 **AND** 1101, Intro to Space Science and Laboratory PHYS 2034, University Physics I PHYS 2054, General Physics I	4
Life Science - *Four (4) hours required* BIO 2013 **AND** 2011, Biology of the Cell and Laboratory BIOL 1003 **AND** 1001, Biological Science and Laboratory BIOL 1033 **AND** 1001, Biology of Sex and Laboratory BIOL 1043 **AND** 1001, Plants & People and Laboratory BIOL 1063 **AND** 1001, People & Environment and Laboratory BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory **AND** BIO 2203 **AND** 2201, Anatomy and Physiology I and Laboratory **OR** BIO 2223 **AND** 2221, Anatomy and Physiology II and Laboratory	4
Fine Arts & Humanities: *Six (6) hours required* *Three (3) hours optional (see Departmental Option below)*	**Required Credit Hrs.**
Fine Arts - *Three (3) hours required* ART 2503 Fine Arts – Visual MUS 2503 Fine Arts – Musical THEA 2503 Fine Arts - Theatre	3
Humanities - *Three (3) hours required* ENG 2003, World Literature to 1660 ENG 2013, World Literature Since 1660 PHIL 1103, Introduction to Philosophy	3
Social Sciences: *Nine (9) hours required (One course must be selected from HIST 2763, HIST 2773 or POSC 2103)* *Three (3) hours optional (see Departmental Option below)*	**Required Credit Hrs.**
ANTH 2233, Introduction to Cultural Anthropology CMAC 1003, Mass Communication ECON 2313, Principles of Macroeconomics ECON 2333, Economic Issues & Concepts GEOG 2613, Introduction to Geography HIST 1013, World Civilization to 1660 HIST 1023, World Civilization since 1660 HIST 2763, United States History to 1876 HIST 2773, United States History since 1876 POSC 1003, Introduction to Politics POSC 2103, Introduction to US Government PSY 2013, Introduction to Psychology SOC 2213, Introduction to Sociology	9
Departmental Option: *Three (3) hours*	**Required Credit Hrs.**
The three (3) optional hours are chosen by the Department for the Degree plan and not the individual student. The three (3) hours will be from either Communication, Fine Arts & Humanities, or Social Sciences.	**3**
Total Required Hours:	**35**

NOTE: Making Connections is a University Requirement and is in addition to the State Minimum Core of 35 general education hours.

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

GENERAL EDUCATION CURRICULUM
FOR ASSOCIATE OF APPLIED SCIENCE DEGREES

Composition:	**Required Credit Hrs.**
ENG 1003, Composition I (*required)* ENG 1013, Composition II (*required)*	6
Natural Sciences and Mathematics: 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.	**Required Credit Hrs.**
MATH 1023, College Algebra	3
Select one of the following: BIOL 1003 AND 1001, Biological Science and Laboratory CHEM 1013 AND 1011, General Chemistry I and Laboratory CHEM 1043 AND 1041, Fundamental Concepts of Chemistry and Laboratory GEOL 1003 AND 1001, Environmental Geology and Laboratory PHSC 1014, Energy and the Environment PHSC 1203 AND 1201, Physical Science and Laboratory PHYS 1103 AND 1101, Introduction to Space Science and Laboratory PHYS 2034, University Physics I PHYS 2054, General Physics I PHYS 2073 AND 2071, Fundamental Physics and Laboratory	4
Social Sciences:	**Required Credit Hrs.**
Select one of the following: HIST 2763, The United States To 1876 HIST 2773, The United States Since 1876 POSC 2103, Introduction to United States Government	3
Computer Applications/Fundamentals:	**Required Credit Hrs.**
Select one of the following: CIT 1503, Microcomputer Applications CS 1013, Introduction to Computers	3
Total Required Hours:	**19**

GENERAL EDUCATION CURRICULUM
FOR ASSOCIATE OF GENERAL STUDIES DEGREES

Composition:	**Required Credit Hrs.**
ENG 1003, Composition I (*required)* ENG 1013, Composition II (*required)*	6
Natural Sciences and Mathematics: 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.	**Required Credit Hrs.**
MATH 1023, College Algebra	3
Select one of the following: BIOL 1003 AND 1001, Biological Science and Laboratory CHEM 1013 AND 1011, General Chemistry I and Laboratory CHEM 1043 AND 1041, Fundamental Concepts of Chemistry and Laboratory GEOL 1003 AND 1001, Environmental Geology and Laboratory PHSC 1014, Energy and the Environment PHSC 1203 AND 1201, Physical Science and Laboratory PHYS 1103 AND 1101, Introduction to Space Science and Laboratory PHYS 2034, University Physics I PHYS 2054, General Physics I PHYS 2073 AND 2071, Fundamental Physics and Laboratory	4
Arts and Humanities:	**Required Credit Hrs.**
Select one of the following: ART 2503, Fine Arts-Visual ENG 2003, World Literature to 1660 ENG 2013, World Literature Since 1660 MUS 2503, Fine Arts-Musical PHIL 1103, Introduction to Philosophy THEA 2503, Fine Arts-Theatre	3
Social Sciences:	**Required Credit Hrs.**
Select one of the following: ANTH 2233, Introduction to Cultural Anthropology ECON 2313, Principles of Macroeconomics ECON 2333, Economic Issues and Concepts GEOG 2613, Introduction to Geography HIST 1013, World Civilization To 1660 HIST 1023, World Civilization Since 1660 **Select one of the following:** HIST 2763, The United States To 1876 HIST 2773, The United States Since 1876 POSC 2103, Introduction to United States Government PSY 2013, Introduction to Psychology	6
Computer Applications/Fundamentals:	**Required Credit Hrs.**
Select one of the following: CIT 1503, Microcomputer Applications CS 1013, Introduction to Computers	3
Total Required Hours:	**25**

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
Department of Computer and Information Technology
Department of Economics and Finance
Department of Management and Marketing

COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCE

ASU Childhood Services
Center for Excellence in Education
Department of Health, Physical Education, and Sport Sciences
Department of Psychology and Counseling
Department of Teacher Education and Leadership
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

Colleges and Departments

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 MEDIA AND COMMUNICATION

Department of Communication
Department of Media

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
Disaster Preparedness Program
Health Studies Program
Nutritional Science Program

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

The Honors College

Rebecca Oliver, Director

Honors aims to create students who become active, creative scholars, fully prepared to contribute their knowledge and skills to the wider world. The Honors College offers special opportunities for Honors students to develop their multiple intelligences, enhance their analytical skills, and augment their knowledge and abilities in their chosen fields. The Honors College offers Honors sections of General Education courses, Honors-Option courses for upper division credit, Honors Independent Study course credit, and Honors Special Topics courses.

Honors students have the opportunity to live in the Honors Living-Learning Community (HLLC) which includes four residence hall buildings that house a total of 321 Honors students. The HLLC also includes the Honors Smart Classroom Building where many Honors courses are held in addition to special events, Honors College Association (HCA) meetings, and related activities.

ADMISSION TO THE HONORS COLLEGE

1. Entering freshmen must have an ACT composite score of 27 (or higher) AND a high school GPA of 3.50 (or higher) to be considered for admission. All incoming freshmen for Fall 2009 and beyond who meet this criteria will be notified and formally admitted to The Honors College. All students formally admitted to Arkansas State University will be automatically screened for admission to The Honors College; there is not a separate freshmen application for The Honors College. Transfer students with fewer than eighteen (18) hours must complete the HONORS TRANSFER APPLICATION to be considered for formal admission to The Honors College; ACT scores and high school grades will also be reviewed.

   NOTE: Students who entered ASU prior to Fall 2009 with an ACT composite score of 24 (or higher) OR a high school GPA of 3.50 (or higher) were considered "Honors Eligible." Students should consult with their departmental advisor and a member of The Honors College staff prior to enrolling in an honors course. Students that were considered "Honors Eligible" and who initially enrolled in Honors courses upon matriculation were grandfathered into The Honors College. Students that were considered "Honors Eligible" but did not initially enroll in Honors courses must complete the HONORS TRANSFER APPLICATION to be considered for formal admission to The Honors College.

2. Current ASU sophomores, juniors, seniors, or students transferring to Arkansas State University with eighteen (18) or more hours of work may apply for formal admission to The Honors College by completing the HONORS TRANSFER APPLICATION. Students with an outstanding academic record are strongly encouraged to apply for admission to The Honors College. Students applying should have a minimum cumulative GPA of 3.25 and be recommended by a faculty member or their academic advisor. Students formally admitted to The Honors College will be able to enroll in Honors courses.

3. Undergraduate students who do not meet these qualifications may be allowed to take an Honors course with a strong recommendation by the faculty member teaching the requested Honors course and the approval of the Director of The Honors College.

   NOTE: Honors students may take no more than ten (10) hours of Honors coursework in any one term.

HONORS RETENTION POLICY (EFFECTIVE FALL 2009)

It is the responsibility of each Honors student to maintain their academic standing. A formalized retention policy was introduced in Spring 2009 in order to effectively communicate what academic standards are expected of Honors students. This policy took effect in Fall 2009 and applies to all Honors students regardless of their matriculation date.

1. Honors students must maintain a cumulative GPA of 3.00 or higher to remain in good academic standing in Honors.

2. Honors students with a cumulative GPA of less than 3.00 for one semester are placed on probation in Honors. This applies to only the fall and spring semesters.

3. Students need to have a semester GPA of 3.25 or higher and/or a cumulative GPA of 3.00 or higher the following semester to be removed from probation in Honors. This allows a first term student with an extremely low GPA to redeem him or herself in their second semester.

4. Students with a cumulative GPA of less than 3.00 for two consecutive semesters are dismissed from Honors.

5. Plagiarism and violation of the student conduct code can be grounds for immediate dismissal from Honors.

NOTE: Institutional scholarship renewal and academic standing in Honors are separate and independent review processes; meaning it is possible that a student could lose their institutional scholarship and still maintain their standing in Honors.

HONORS COURSE COMPLETION POLICY

Honors students must successfully complete Honors courses with a grade of C or better to be counted toward graduation with distinction from The Honors College. This includes graduating "In University Honors," "In Honors," or earning an Honors Certificate. Students who earn a D or F will not be able to count a course toward their total number of Honors credit hours.

HONORS TRANSFER CREDIT POLICY

Transfer students who are formally admitted to The Honors College may count up to six Honors credit hours from their previous institution if they meet the following criteria:

1. Honors course(s) is denoted on the official transcript from the previous institution
2. Student has earned a grade of A or B in the Honors course(s)
3. Honors credit hours from both community colleges and four-year institutions can be considered

Each Honors transfer student will have their transcript reviewed by The Honors College staff for a determination of which 6 Honors credit hours can be counted toward graduation with distinction from Honors.

HONORS FORMS AND PROCEDURES

Honors students should familiarize themselves with the forms and procedures for special Honors credit hours opportunities that are on the Honors website at http://www.astate.edu/college/honors-college/student-information/.

1. Honors Option Course Application & Procedure
Students who are formally admitted to The Honors College may earn Honors credit for an upper-level course in their major program of study by contracting with the professor for significant additional work of an independent character as a supplement to the standard requirements for the course.

2. Honors Independent Study Application
Honors Independent Study is a course of study initiated by an Honors student and carried out under the supervision of a member of the faculty with appropriate expertise.

3. Honors Thesis Application & Guidelines
Honors students in good academic standing in The Honors College may undertake thesis study in his or her major field of study or his or her declared minor. A student must have senior Honors standing to apply to undertake an Honors senior thesis.

4. Petition to Enroll in a Graduate Course for Undergraduate Credit
Students who are formally admitted to The Honors College may petition to enroll in a graduate course for undergraduate credit.

5. Petition to Substitute an Upper-Level Course for a General Education Requirement
Students who are formally admitted to The Honors College may petition to substitute an upper-level course for a general education requirement.

GRADUATE "IN UNIVERSITY HONORS"

To graduate "In University Honors," students must take at least twenty-four (24) hours of Honors coursework. Twelve or more of these hours must be upper-division (junior/senior level) work. Students should be enrolled in at least one Honors course each semester to progress toward graduation. Students earning "In University Honors" are required to complete Honors Senior Thesis credit hours in their major (or minor) area of study and must have at least a 3.50 cumulative GPA.

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

Students earning the distinction "In University Honors" receive a certificate and gold medallion to wear at Commencement and at other university functions.

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.

University College

Jill Simons, Ed.D., Dean

The primary focus of the University College Dean's office is to provide campus-wide attention to academic retention and student success initiatives with primary oversight of the following areas:

- Provide comprehensive academic advising and mentoring support services for all first-year students, undeclared majors and special student populations to help clarify academic and personal strengths.
- Provide academic skills instruction to instill personal responsibility and prepare students for a successful transition into and through higher education.
- Provide a comprehensive academic support structure to enhance student success toward degree attainment.
- Provide alternative degree options to meet unique interests and goals of students.
- Provide campus-wide academic retention oversight including planning reporting and assessing initiatives.
- Provide a dynamic work environment that encourages collaboration, professional development and meaningful assessment.

STUDENT OUTREACH SYSTEM (SOS):

Paula James, Coordinator

University College sponsors a campus-wide, early alert, academic referral program which provides faculty with an opportunity to communicate with students and select SOS administrators about student behaviors which are affecting academic performance. Each referred student is contacted by the SOS Team with an offer of assistance. Typical referrals include absenteeism, poor test performance, missing coursework and/or excessive tardiness. Faculty and SOS Team participate in the program voluntarily.

DEGREE COMPLETION OPPORTUNITIES:

University College offers incoming, transfer, and current students who are in need of custom degree or degree completion alternatives several options. These include the En Route Associate of Arts or Associate of Science degrees, the Associate of General Studies degree, and the Bachelor of Science in Interdisciplinary Studies degree. A Minor in Leadership Studies is also offered. See University College Degree Options

RETENTION SERVICES:

University College hosts the campus Academic Retention Consortium (ARC) which is designed to ensure that ASU has a steadfast commitment to data-driven, strategic planning for student success. The primary goal of ARC is to provide a better understanding of and response to the persistence and graduation patterns of ASU students.

EARLY ACCESS

University College oversees the administration of Arkansas State University-Jonesboro's High School Concurrent Program. Academic oversight of the program's concur¬rent 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.

FIRST YEAR EXPERIENCE

Kerry Tew, Director

All first-year students are required to take a First Year Experience (FYE) Seminar called Making Connec¬tions during their first semester of enrollment at ASU regardless of the number of concurrent, AP and other college credits earned while in high school. This course is an integral part of the overall first year experience and is designed to assist students to make a smooth transition to the university experience. There are a variety of FYE courses offered, including numerous discipline-specific sections as well as sections for undecided majors and First Year Studies students. All courses have a common core cur¬riculum that includes academic performance skills, time management, research skills, problem solving and understanding university policies and expectations. University College also supports the First-year Advisor Board and First-year Honor Societies.

FIRST YEAR STUDIES

Paula Bradberry, Director
Instructors: *Carter, Doyle, Ferrell, Green, Khalil, Mungle, Smith, Stripling, Wharton*

FIRST YEAR STUDIES

First Year Studies is the academic home for students entering the university through the FYS Admissions program. The department also houses developmental courses in math, reading and writing and coordinates services to freshman international students through the International Academic Success Institute. In addition, courses in reading, writing, math and career planning are available to any ASU student who has need of such courses.

Students who do not meet the regular admissions standards of the university of an ACT composite score of 21 and a 2.75 high school grade point average can be admitted through First Year Studies (formerly Academic Success Institute) if they have an 19 composite on the ACT (or equivalent scores on other accepted tests) and a 2.30 high school grade point average. Students admitted through FYS complete a comprehensive two-semester program that utilizes intrusive advising, tutoring, workshops, strict class attendance regulations, and limited course placement. Students whose ACT or other equivalent scores in reading, writing and mathematics are below a 19 are required by Arkansas law to take developmental courses in those areas during the first two periods of enrollment. While in First Year Studies, students complete developmental courses (if required), general education courses and a two-semester student success curriculum that includes Making Connections and UC 1032 FYS Success Strategies. Students must meet the FYS program and grade point average requirements to continue at ASU. Additional Information about admission through First Year Studies is available at the University College website.

WILSON CENTER FOR ACADEMIC ADVISING AND LEARNING ASSISTANCE

Melissa Jackson, Director
Advisors: *Curbo, Granberry*

The Wilson Advising Center works collaboratively with the campus community to provide a quality academic advising experience for both the students and faculty of Arkansas State University. The center promotes the academic development of college students through an array of advising, mentoring, and instructional opportunities to assist students in identifying academic interests, values, needs, and abilities to set attainable academic and life goals.

The Wilson Advising Center is the primary home for advisement of exploratory (undecided) students at Arkansas State University. This office offers walk-in style services Monday through Friday from 8:00am-5:00pm. Any student, regardless of their major, is encouraged to contact this office with general advising questions or concerns at 972-3001.

The Advising Center also provides services for students placed on academic probation or suspension. See College Choices and Restart@state under academic standing policies in the bulletin for more

information on academic standing programs. The Advising Center is the first stop for students who need to withdraw from ASU. The Advising Center provides faculty advisor trainings, and promotes continual professional development of academic advisors at ASU.

STUDENT SUPPORT SERVICES AND UPWARD BOUND (TRIO)

Jerrod Lockhart, Director - Student Support Services
Rasheda Hamilton, Director - Upward Bound

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 Hall. 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. In addition, students with disabilities may be eligible for Student Support Services.

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 successfully complete a four year college degree. Upward Bound accomplishes this goal through a variety of activities including: tutoring and awareness classes on Saturdays during the academic year, a mandatory six-week intensive summer residential program that focuses on academic preparation for college, social and cultural enrichment activities, career and college planning, and a College Bridge program for graduating seniors.

Eligibility for TRIO Programs is based on student/family incomes and/or parent educational attainment.

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:// www.astate.edu/college/university-college/upward-bound/.

LEARNING SUPPORT SERVICES

Vallary Bingham, Coordinator

University College's Learning Support Services nurture successful, independent learners at Arkansas State University through individual and group tutoring, course-based support, and academic coaching. Programs offered by Learning Support Services include the Learning Support Center and Writing Lab, Supplemental Instruction (SI), and Structured Learning Assistance (SLA). All services are provided free of charge to ASU students.

The Learning Support Center and Writing Lab, located on the first floor of the Dean B. Ellis Library, offer drop-in and appointment-based tutoring for all 1000- and 2000-level general education courses as well as some upper division core courses. The Math Lab and Writing Lab each offer a twenty seat computer lab for additional tutoring and resources pertaining to Hawkes-based Algebra courses and college-level writing assignments.

Supplemental Instruction (SI) is course-based academic support program targeting historically difficult courses through regularly scheduled, peer-facilitated study sessions. These sessions are open to all students enrolled in the targeted course and are attended on a voluntary basis. SI sessions reinforce study skills and basic skills while reviewing course content in a collaborative learning environment.

Structured Learning Assistance (SLA) is a proactive academic support program that identifies high-risk general education and developmental courses. Students register into course sections supported by SLA and are provided with three hours of additional course support each week. Attendance at the weekly workshops is required until the first examination or assessment and then is only required when a student drops below a set grade in the targeted course. Thus, SLA workshops are required when students need extra assistance and optional when they are successful in the course.

Department of Interdisciplinary Studies

Nikesha Nesbitt, Program Director
Advisors: *Kuizin, Lynn*

The Department of Interdisciplinary Studies in University College oversees the general and interdisciplinary degree options. Student interested in designing a unique program of study should contact this department.

BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES DEGREE PROGRAM

The Bachelor of Science Degree in Interdisciplinary Studies (BSIS) is designed to offer highly motivated and self-directed students the opportunity to design their own major. As an alternative to traditional majors, the BSIS Program allows students to pursue their educational goals in areas not available within existing departmental curricula. With the help of a faculty sponsor, students select courses on the basis of a unifying issue, topic, theme, culture, period, or question which is considered the thematic study. Approved thematic courses must be interdisciplinary in nature, pull from at least two fields or disciplines, and may not duplicate an existing major. Courses may be chosen from any of the departments within the University. Experiential learning is strongly encouraged. Students may seek national exchange and study abroad opportunities, internships and independent studies as part of their thematic coursework. Each student's program of study is developed with the advice and approval of both the student's chosen faculty sponsor and a BSIS advisor. Students seeking a minor must use classes independently of those used in an area of emphasis. Students seeking a double major concurrently with their Interdisciplinary Studies degree or students who have completed a degree and are returning to complete a degree in Interdisciplinary Studies may only apply their general education courses toward additional second program of study.

Admission into the program requires a minimum of a 2.50 GPA, 30 earned credit hours, a completed application, and acceptance by the Dean of the University College.

The requirements for the BSIS major are as follows:

1. A formal proposal written during the student's enrollment in the Introduction to Interdisciplinary Studies (IDS 2013), a three credit class.
2. Completion of at least 36 related upper-level courses (numbered 3000 or above) in student's thematic study, totaling a minimum of 36 credits over a period of at least four semesters. Thematic study courses must be completed with a minimum grade of C.

Major in Interdisciplinary Studies

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections (or equivalent course)	3
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) *Requirements based on previous major.* **Students with this major must take the following:** *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	35
Foreign Language Requirement:	**Sem. Hrs.**
Foreign Language	6
Major Requirements: Grade of "C" or better required for all Approved Thematic Courses	**Sem. Hrs.**
Approved Thematic Courses (must include at least 36 upper-level hours):	45
Experiential Learning	**Sem. Hrs.**
IDS 2023, Introduction to Service Learning	3
IDS 3023, Advanced Service Learning	3
Research Course	**Sem. Hrs.**
IDS 2013, Introduction to Interdisciplinary Studies	3
IDS 3013, Critical Thinking in the Profession	3
Leadership Development	**Sem. Hrs.**
IDS 4023, Leadership in the Profession	3
Senior Capstone	**Sem. Hrs.**
IDS 4013, Seminar in Professional Development	3
Electives:	**Sem. Hrs.**
Electives	13
Total Required Hours:	**120**

Bachelor of General Studies*

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) **** The Bachelor of General Studies degree program does not have a major.***	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections (or equivalent course)	3
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) *Requirements based on previous major.* **Students with this major must take the following:** *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	35
Major Requirements:	**Sem. Hrs.**
First Emphasis Area (must include at least 12 upper-level hours):	18
Second Emphasis Area (must include at least 12 upper-level hours):	18
Third Emphasis Area (must include at least 12 upper-level hours):	18
CS 1013, Introduction to Computers **OR** CIT 1503, Micro Applications	0-3
Sub-total	**54-57**
Core Courses:	**Sem. Hrs.**
IDS 3013, Critical Thinking in the Profession	3
IDS 4013, Seminar in Professional Development	3
IDS 4023, Leadership in the Profession	3
Sub-total	**9**
Electives:	**Sem. Hrs.**
Electives	16-19
Total Required Hours:	**120**

ASSOCIATE OF GENERAL STUDIES DEGREE PROGRAM

The fundamental purpose of the program is to enable students at Arkansas State University to assume the responsibility for developing a personalized program of study to meet particular career goals and/or individual needs. The flexibility of the program permits the completion of the general education curriculum along with combinations of a selection of elective courses that may be desired by students, but would otherwise be difficult, or impossible, to obtain in other existing undergraduate degree programs. Students seeking entrance into the Associate of General Studies program must satisfy university admission standards identical to those required of applicants for four-year university programs. Students may transfer from the Associate of General Studies program to other degree programs, and may well do so if they change career objectives and/or goals.

An Associate of General Studies degree may be conferred upon students who satisfactorily complete the appropriate curriculum and meet the specific requirements for the degree. Students pursuing the Associate of General Studies degree are responsible for complying with the general academic regulations of the university as well as all other university policies and requirements. A 2.0 cumulative grade point average is required on all course work.

Associate of General Studies

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of General Studies Degrees (p. 84)	25
Electives:	**Sem. Hrs.**
Electives	35
Total Required Hours:	**60**

EN ROUTE 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-J 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 Office of Admissions, Records and Registration for a degree audit.

En Route

Associate of Arts

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, First Year Experience - Making Connections (or other approved FYE course)	3
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Arts Degrees (p. 84)	35
Arts Core:	**Sem. Hrs.**
Any combination of courses NOT taken as General Education or First Year Experience	15
Electives:	**Sem. Hrs.**
Electives	7
Total Required Hours:	**60**

En Route

Associate of Science

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, First Year Experience - Making Connections (or other approved FYE course)	3
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Science Degrees (p. 84)	35
Science Core:	**Sem. Hrs.**
Any combination of courses NOT taken as General Education or First Year Experience	15
Electives:	**Sem. Hrs.**
Electives	7
Total Required Hours:	**60**

University College Minors

Minor in Leadership Studies

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.

Required Courses: Any student who completes the necessary courses may declare this minor and have it appear on the transcript. Each Department which offers a course included in the minor will determine for its own majors whether courses taken for their minor can also count toward their major.	**Sem. Hrs.**
BCOM 3573, Managerial Communication	3
MGMT 3153, Organizational Behavior	3
MGMT 3613, Leadership	3
COMS 3203, Business and Professional Communication **OR** UC 1002, Introduction to Leadership Development	2-3
UC 3012, Seminar in Leadership Development	2
UC 480V, Special Problems in Leadership Development	3
Select two of the following: COMS 2243, Principles of Argumentation COMS 3243, Principles of Persuasion COMS 4203, Small Group Communication COMS 4243, Interpersonal Communication COMS 4253, Intercultural Communication PSY 3303, Motivation PSY 4743, Organizational Psychology	6
Total Required Hours:	**22-23**

College of Agriculture and Technology

Professor Timothy N. Burcham, Dean
Professors: *Agnew, Armah, Cramer, Greenwalt, Hood, W. Humphrey, Kennedy, Phillips, Teague*
Associate Professors: *Green, Morris, Pittcock, Savary, Shumway*
Assistant Professors: *K. Humphrey, Sharma, Wells*
Instructors: *Fenner, Ren, White*

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.

Agricultural Programs

COLLEGE OF AGRICULTURE CORE COURSES

College of Agriculture Core Courses:	Sem. Hrs.
AGEC 1003, Introduction to Agricultural Business	3
AGRI 3233, Applied Agricultural Statistics **OR** ECON 2113, Business Statistics **OR** STAT 3233, Applied Statistics I	3
AGRI 3723, Agricultural Connections: Technical Interpretation and Professional Applications	3
ANSC 1613, Introduction to Animal Science	3
PSSC 1303, Introduction to Plant Science	3
PSSC 2813, Soils	3
Total Required Hours:	**18**

Major in Agricultural Business

Bachelor of Science in Agriculture
Emphasis in Agricultural Communications

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ECON 2313, Macroeconomics* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
AGEC 3003, Agricultural Marketing	3
AGEC 4033, Agricultural Law **OR** LAW 2023, Legal Environment of Business	3
AGEC 4053, Agricultural Finance	3
AGEC 4073, Agricultural Business Management	3
AGEC 4083, Agricultural Policy and Current Issues	3
CIT 1503, Microcomputer Applications	3
ECON 2323, Principles of Microeconomics	3
MGMT 3153, Organizational Behavior **OR** MGMT 3123 Principles of Management	3
MKTG 3013, Marketing	3
Sub-total	**33**
Emphasis Area (Agricultural Communications): Student may select from one of the career specialty areas or consult an advisor and design a program to meet the student's particular career goals. The student considering graduate school is strongly encouraged to take MATH 2143, Business Calculus or any other calculus course as an elective if it is not part of the emphasis area.	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMP 2313, Multimedia Production	3
MMJ 2013, Multimedia Reporting	3
Nine hours of upper-level MMJ electives	9
Sub-total	**19**
Electives:	**Sem. Hrs.**
Electives	**12**
Total Required Hours:	**120**

Major in Agricultural Business

Bachelor of Science in Agriculture
Emphasis in Agricultural Economics

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ECON 2313, Macroeconomics* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
AGEC 3003, Agricultural Marketing	3
AGEC 4033, Agricultural Law **OR** LAW 2023, Legal Environment of Business	3
AGEC 4053, Agricultural Finance	3
AGEC 4073, Agricultural Business Management	3
AGEC 4083, Agricultural Policy and Current Issues	3
CIT 1503, Microcomputer Applications	3
ECON 2323, Principles of Microeconomics	3
MGMT 3153, Organizational Behavior **OR** MGMT 3123 Principles of Management	3
MKTG 3013, Marketing	3
Sub-total	**33**
Emphasis Area (Agricultural Economics): Student may select from one of the career specialty areas or consult an advisor and design a program to meet the student's particular career goals. The student considering graduate school is strongly encouraged to take MATH 2143, Business Calculus or any other calculus course as an elective if it is not part of the emphasis area.	**Sem. Hrs.**
CIT 3523, Operations Management	3
ECON 3313, Microeconomic Analysis	3
ECON 3353, Macroeconomic Analysis	3
MATH 2143, Business Calculus	3
Electives in AGEC, ECON, MATH, MGMT	6
Sub-total	**18**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Major in Agricultural Business

Bachelor of Science in Agriculture
Emphasis in Agricultural Finance

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ECON 2313, Macroeconomics* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
AGEC 3003, Agricultural Marketing	3
AGEC 4033, Agricultural Law **OR** LAW 2023, Legal Environment of Business	3
AGEC 4053, Agricultural Finance	3
AGEC 4073, Agricultural Business Management	3
AGEC 4083, Agricultural Policy and Current Issues	3
CIT 1503, Microcomputer Applications	3
ECON 2323, Principles of Microeconomics	3
MGMT 3153, Organizational Behavior **OR** MGMT 3123 Principles of Management	3
MKTG 3013, Marketing	3
Sub-total	**33**
Emphasis Area (Agricultural Finance): Student may select from one of the career specialty areas or consult an advisor and design a program to meet the student's particular career goals. The student considering graduate school is strongly encouraged to take MATH 2143, Business Calculus or any other calculus course as an elective if it is not part of the emphasis area.	**Sem. Hrs.**
AGEC 3053, Commodity Futures Markets	3
ECON 3323, Money and Banking	3
FIN 3713, Business Finance	3
Electives in AGEC, FIN, ECON	9
Sub-total	**18**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Major in Agricultural Business

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ECON 2313, Macroeconomics* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
AGEC 3003, Agricultural Marketing	3
AGEC 4033, Agricultural Law **OR** LAW 2023, Legal Environment of Business	3
AGEC 4053, Agricultural Finance	3
AGEC 4073, Agricultural Business Management	3
AGEC 4083, Agricultural Policy and Current Issues	3
CIT 1503, Microcomputer Applications	3
ECON 2323, Principles of Microeconomics	3
MGMT 3153, Organizational Behavior **OR** MGMT 3123 Principles of Management	3
MKTG 3013, Marketing	3
Sub-total	**33**
Emphasis Area (Agricultural Marketing and Management): Student may select from one of the career specialty areas or consult an advisor and design a program to meet the student's particular career goals. The student considering graduate school is strongly encouraged to take MATH 2143, Business Calculus or any other calculus course as an elective if it is not part of the emphasis area.	**Sem. Hrs.**
AGEC 3053, Commodity Futures Markets	3
AGEC 4023, International Commodity Marketing	3
MKTG 3043, Retailing **OR** AGEC 3063, Agricultural Sales and Services	3
Electives in AGEC, MKTG, MGMT	9
Sub-total	**18**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Major in Agricultural Business

Bachelor of Science in Agriculture
Emphasis in Farm Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ECON 2313, Macroeconomics* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
AGEC 3003, Agricultural Marketing	3
AGEC 4033, Agricultural Law **OR** LAW 2023, Legal Environment of Business	3
AGEC 4053, Agricultural Finance	3
AGEC 4073, Agricultural Business Management	3
AGEC 4083, Agricultural Policy and Current Issues	3
CIT 1503, Microcomputer Applications	3
ECON 2323, Principles of Microeconomics	3
MGMT 3153, Organizational Behavior **OR** MGMT 3123 Principles of Management	3
MKTG 3013, Marketing	3
Sub-total	**33**
Emphasis Area (Farm Management): Student may select from one of the career specialty areas or consult an advisor and design a program to meet the student's particular career goals. The student considering graduate school is strongly encouraged to take MATH 2143, Business Calculus or any other calculus course as an elective if it is not part of the emphasis area.	**Sem. Hrs.**
AGEC 3013, Agricultural Records **OR** ACCT 4013, Tax Accounting	3
AGEC 3053, Commodity Futures Markets	3
AGEC 4013, Farm Appraisal	3
Electives in PSSC, AGEC, ANSC	9
Sub-total	**18**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Major in Agricultural Studies

Bachelor of Science in Agriculture
Emphasis in Agricultural Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
See emphasis area below.	
Emphasis Area (Agricultural Science):	**Sem. Hrs**
CHEM 1052, Fundamental Concepts of Organic and Biochemistry	2
Electives from AGEC, AGED, ANSC, AGRI, PSSC/HORT, TECH *No more than 12 hours in one area.*	44
Sub-total	**46**
Minor:	**Sem. Hrs**
Minor must be approved by advisor and should not include courses taken to fulfill general education requirements.	**18**
Total Required Hours:	**120**

Major in Agricultural Studies

Bachelor of Science in Agriculture
Emphasis in Agricultural Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
See emphasis area below.	
Emphasis Area (Agricultural Education):	**Sem. Hrs**
ANSC, 1621, Introduction to Animal Science Laboratory	1
PSSC 2811, Soils Lab	1
CHEM 1052, Fundamental Concepts of Organic and Biochemistry	2
Select three of the following: AGED 2433, Principles of Agricultural Power: Electricity and Internal Combustion Engines AGED 2453, Application of Welding Technologies to Agriculture AGED 3433, Agricultural Equipment Hydraulic Systems AGED 3453, Agricultural Structural Systems	9
Twelve hours of the following must be upper-level:	
AGRI or AGED elective	0-3
AGEC elective	3
ANSC elective	3-6
HORT elective	0-3
PSSC elective	3-6
TECH elective	3
Sub-total	**31**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs**
AGED 1403, Basic Agricultural Mechanics	3
AGED 1411, Introduction to Agricultural and Extension Education	1
AGED 4433, Methods of Teaching Agricultural Mechanics	3
AGED 4462, Agricultural Youth Organizations	2

Major in Agricultural Studies (cont.)

Bachelor of Science in Agriculture
Emphasis in Agricultural Education

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

SCED 2513 Introduction to Secondary Teaching	3
VOED 4503, Foundations of Adult Education in Vocational Education	3
PSY, 3703, Educational Psychology	3
*EDAG 4623, Special methods for Teaching Agricultural Education	3
*TIAG 4826, Teaching Internship in the Secondary School	12
Sub-total	**33**
Total Required Hours:	**120**

Major in Agricultural Studies

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *PHYS 2054, General Physics I* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
PSSC 3503, Agriculture Spatial Technologies I	3
Emphasis Area (Agricultural Systems Technology):	**Sem. Hrs**
AGEC 3003, Agricultural Marketing **OR** AGEC 3013, Agricultural Records **OR** AGEC 3063, Agricultural Sales and Service	3
AGED 3433, Agricultural Equipment Hydraulic Systems	3
AGRI 3543, Fundamentals of GIS/GPS	3
AGRI 4223, Agriculture and the Environment	3
AGRI 4773, Remote Sensing	3
CHEM 1043, Fundamental Concepts of Chemistry	3
MATH 1033, Plane Trigonometry	3
PHYS 2064. General Physics II	4
PSSC 3323, Weeds and Weed Control	3
PSSC 3513, Agricultural Spatial Technologies II	3
PSSC 4543, Advanced GIS for Agriculture and Natural Resources	3
PSSC 4713, Soil Quality Assessment and Interpretation **OR** PSSC 4853, Soil and Water Conservation	3
TECH 2453, Solid Works I	3
TECH 2863, Principles of Technology	3
TECH 3803, Electrical Systems	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4883, Work Center Management	3
Upper-level electives in PSSC	3
Upper-level electives in TECH	3
Sub-total	**61**
Total Required Hours:	**120**

Major in Animal Science

Bachelor of Science in Agriculture
Emphasis in Equine Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements: In order to receive General Education credit for either of the microbiology courses, students with this major must take BIO 1303 **AND** 1301, Biology of Animals and Laboratory. The credit hours for the Biology of Animal courses will NOT count toward the total General Education hours.	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* ***OR*** *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Laboratory* *BIO 2103* ***AND*** *2101, Microbiology for Nursing and Allied Health and Laboratory* ***OR*** *BIO 4104, Microbiology* *ECON 2313, Principles of Macroeconomics* ***OR*** *ECON 2333, Economic issues and Concepts* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
CHEM 1052, Fundamental Concepts of Organic and Biochemistry **OR** CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	2 or 4
BIO 1303 **AND** 1301, Biology of Animals and Lab **OR** BIO 2013 **AND** 2011, Biology of the Cell and Lab	4
ANSC 1621, Introduction to Animal Science Laboratory	1
ANSC 3613, Nutritional Management of Domestic Animals	3
ANSC 3633, Veterinary Anatomy and Physiology	3
AGRI 2213, Genetic Improvement of Plants and Animals **OR** BIO 3013, Genetics	3
Select four of the following: ANSC 3203, Small Animal Care and Management ANSC 3653, Meat Science and Processing ANSC 3663, Sheep Production ANSC 4623, Beef Production ANSC 4643, Techniques of Farm Animal Production	12
Sub-total	**28 or 30**
Emphasis Area (Equine Management):	**Sem. Hrs.**
AGEC 4073, Agricultural Business Management	3
ANSC 1522, Beginning English Equitation	2
ANSC 1602, Equitation	2

Major in Animal Science (cont.)

Bachelor of Science in Agriculture
Emphasis in Equine Management

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

ANSC 1612, Intermediate Western Equitation	2
ANSC 2623, Equine Care and Management	3
ANSC 4613 Horse Production	3
ANSC 4743, Equine Nutrition	3
Sub-total	**18**
Electives:	**Sem. Hrs.**
Electives	**16 or 18**
Total Required Hours:	**120**

Major in Animal Science

Bachelor of Science in Agriculture
Emphasis in Production and Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements: In order to receive General Education credit for either of the microbiology courses, students with this major must take BIO 1303 **AND** 1301, Biology of Animals and Laboratory. The credit hours for the Biology of Animal courses will NOT count toward the total General Education hours.	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* ***OR*** *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Laboratory* *BIO 2103* ***AND*** *2101, Microbiology for Nursing and Allied Health and Laboratory* ***OR*** *BIO 4104, Microbiology* *ECON 2313, Principles of Macroeconomics* ***OR*** *ECON 2333, Economic issues and Concepts* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
CHEM 1052, Fundamental Concepts of Organic and Biochemistry **OR** CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	2 or 4
BIO 1303 **AND** 1301, Biology of Animals and Lab **OR** BIO 2013 **AND** 2011, Biology of the Cell and Lab	4
ANSC 1621, Introduction to Animal Science Laboratory	1
ANSC 3613, Nutritional Management of Domestic Animals	3
ANSC 3633, Veterinary Anatomy and Physiology	3
AGRI 2213, Genetic Improvement of Plants and Animals **OR** BIO 3013, Genetics	3
Select four of the following: ANSC 3203, Small Animal Care and Management ANSC 3653, Meat Science and Processing ANSC 3663, Sheep Production ANSC 4613, Horse Production ANSC 4623, Beef Production ANSC 4633, Diseases of Farm Animals ANSC 4743, Equine Nutrition	12
Sub-total	**28 or 30**
Emphasis Area (Production and Management):	**Sem. Hrs.**
AGEC 4073, Agricultural Business Management	3
ANSC 3073, Poultry Flock Management	3
ANSC 4663, Principles of Breeding	3
ANSC 4673, Digestive Physiology and Nutrition of Animals	3
ANSC 4683, Theriogenology	3
Sub-total	**15**
Electives:	**Sem. Hrs.**
Electives	**19 or 21**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Animal Science

Bachelor of Science in Agriculture
Emphasis in Pre-veterinary

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements: In order to receive General Education credit for either of the microbiology courses, students with this major must take BIO 1303 **AND** 1301, Biology of Animals and Laboratory. The credit hours for the Biology of Animal courses will NOT count toward the total General Education hours.	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* ***OR*** *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Laboratory* *BIO 4104, Microbiology* *ECON 2313, Principles of Macroeconomics* ***OR*** *ECON 2333, Economic issues and Concepts* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
BIO 1303 **AND** 1301, Biology of Animals and Lab **OR** BIO 2013 **AND** 2011, Biology of the Cell and Lab	4
ANSC 1621, Introduction to Animal Science Laboratory	1
ANSC 3613, Nutritional Management of Domestic Animals	3
ANSC 3633, Veterinary Anatomy and Physiology	3
AGRI 2213, Genetic Improvement of Plants and Animals **OR** BIO 3013, Genetics	3
Select three of the following: ANSC 3203, Small Animal Care and Management ANSC 3653, Meat Science and Processing ANSC 3663, Sheep Production ANSC 4613, Horse Production ANSC 4623, Beef Production ANSC 4643 Techniques of Farm Animal Production	9
Sub-total	**27**
Emphasis Area (Pre-veterinary):	**Sem. Hrs.**
ANSC 4673, Digestive Physiology and Nutrition of Animals	3
ANSC 4683, Theriogenology	3
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 4243, Biochemistry	3
MATH 1033, Plane Trigonometry **OR** MATH 1054, Precalculus	3-4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
Sub-total	**24-25**
Electives:	**Sem. Hrs.**
Electives	**12-13**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Plant and Soil Science

Bachelor of Science in Agriculture
Emphasis in Agronomy

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Lab* *BIOL 1003* ***AND*** *1001, Biological Sciences and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
AGEC 3013, Agricultural Records **OR** CIT 1503, Microcomputer Applications	3
AGRI 2213, Genetic Improvement of Plants and Animals	3
AGRI 4223, Agriculture and the Environment	3
BIO 3303 **AND** 3301, General Entomology and Laboratory **OR** BIO 3313 **AND** 3311, Economic Entomology and Laboratory	4
PSSC 3313, Plant Disease Management	3
PSSC 2811, Soils Laboratory	1
PSSC 1301, Plant Science Laboratory	1
PSSC 4313, Plant Growth and Development	3
Sub-total	**21**
Emphasis Area (Agronomy):	**Sem. Hrs.**
AGRI 3543, Fundamentals of GIS	3
CHEM 1052, Fundamentals Concepts of Chemistry II	2
PSSC 3323, Weeds and Weed Control	3
PSSC 3503, Agricultural Spatial Technologies	3
PSSC 4813, Soil Fertility	3
PSSC or HORT electives, or BIO 1503, Biology of Plants, or related area	18
Sub-total	**32**
Electives:	**Sem. Hrs.**
Electives	**11**
Total Required Hours:	**120**

Major in Plant and Soil Science

Bachelor of Science in Agriculture
Emphasis in Science/Research

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *CHEM 1011, General Chemistry I and Laboratory* *BIOL 1003* ***AND*** *1001, Biological Sciences and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
AGEC 3013, Agricultural Records **OR** CIT 1503, Microcomputer Applications	3
AGRI 2213, Genetic Improvement of Plants and Animals	3
AGRI 4223, Agriculture and the Environment	3
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3303 **AND** 3301, General Entomology and Laboratory **OR** BIO 3313 **AND** 3311, Economic Entomology and Laboratory	4
PSSC 3313, Plant Disease Management	3
PSSC 2811, Soils Laboratory	1
PSSC 1301, Plant Science Laboratory	1
PSSC 4313, Plant Growth and Development	3
Sub-total	**25**
Emphasis Area (Science/Research):	**Sem. Hrs.**
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic I and Laboratory	4
CHEM 3113 **AND** 3111, Organic II and Laboratory	4
CHEM 4243, Biochemistry	3
Select one of the following: MATH 2204, Calculus I MATH 2194, Survey of Calculus AGRI 4233, Experimental Agricultural Statistics	3-4
PSSC or HORT electives or related area	10-11
Sub-total	**29**
Electives:	**Sem. Hrs.**
Electives	**10**
Total Required Hours:	**120**

Major in Plant and Soil Science

Bachelor of Science in Agriculture
Emphasis in Environmental Horticulture

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Lab* *BIOL 1003* ***AND*** *1001, Biological Sciences and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Agriculture Core Courses:	**Sem. Hrs.**
(See Beginning of Agriculture Section)	**18**
Major Requirements:	**Sem. Hrs.**
AGEC 3013, Agricultural Records **OR** CIT 1503, Microcomputer Applications	3
AGRI 2213, Genetic Improvement of Plants and Animals	3
AGRI 4223, Agriculture and the Environment	3
BIO 3303 **AND** 3301, General Entomology and Laboratory **OR** BIO 3313 **AND** 3311, Economic Entomology and Laboratory	4
PSSC 3313, Plant Disease Management	3
PSSC 2811, Soils Laboratory	1
PSSC 1301, Plant Science Laboratory	1
PSSC 4313, Plant Growth and Development	3
Sub-total	**21**
Emphasis Area (Environmental Horticulture):	**Sem. Hrs.**
CHEM 1052, Fundamental Concepts of Organic and Biochemistry	2
HORT 3293, Landscape Plant Materials	3
HORT 2253, Fundamentals of Horticulture	3
HORT 4253, Greenhouse Management	3
HORT electives, or BIO 1503, Biology of Plants, or related area	18
PSSC 3323, Weeds and Weed Control	3
Sub-total	**32**
Electives:	**Sem. Hrs.**
Electives	**11**
Total Required Hours:	**120**

Agricultural Programs Minors

Minor in Agricultural Business

Required Courses:	Sem. Hrs.
Agricultural Business Electives	6
Upper-level Agricultural Business Electives	12
Total Required Hours:	**18**

Minor in Agricultural Mechanics

Required Courses: All Agricultural Mechanics courses have an AGED Prefix. Three hours of AGEN, lower or upper-level, may be used to satisfy the requirements of this minor.	Sem. Hrs.
Agricultural Mechanics Electives	6
Upper-level Agricultural Mechanics Electives	12
Total Required Hours:	**18**

Minor in Crop Consulting and Agronomic Services

Required Courses: Students must maintain a minimum GPA of 3.0 and a grade of at least a "C" for each course in the minor.	Sem. Hrs.
BIO 3313, Economic Entomology	3
PSSC 3323, Weeds and Weed Control	3
PSSC 3503, Agricultural Spatial Technologies I	3
PSSC 4813, Soil Fertility	3
Select two of the following: PSSC 3313, Plant Disease Management PSSC 3513, Agricultural Spatial Technologies II PSSC 4713, Soil Quality Assessment and Interpretation PSSC 4804, Principles of Crop Production PSSC 4853, Soil and Water Conservation	6-7
Total Required Hours:	**18-19**

Minor in Animal Science

Required Courses:	Sem. Hrs.
Animal Science Electives	6
Upper-level Animal Science Electives	12
Total Required Hours:	**18**

Minor in Horticulture

Required Courses:	Sem. Hrs.
Horticulture Electives	6
Upper-level HORT, AGRI or PSSC electives, as approved by advisor	12
Total Required Hours:	**18**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Agricultural Programs Minors

Minor in Plant Science

Required Courses:	Sem. Hrs.
Plant Science Electives	6
Upper-level Plant Science Electives	12
Total Required Hours:	**18**

Minor in Spatial Technologies and Geographic Information Systems

Required Courses: Students must maintain a minimum GPA of 3.0 and a grade of at least a "C" for each course in the minor.	Sem. Hrs.
AGRI 3543, Fundamentals of GIS/GPS	3
AGRI 4773, Remote Sensing	3
PSSC 3503, Agricultural Spatial Technologies I	3
PSSC 3513, Agricultural Spatial Technologies II	3
PSSC 4543, Advanced GIS for Agri. & Natural Res.	3
PSSC 4813, Soil Fertility	3
Total Required Hours:	**18**

Technology Program

BACHELOR OF SCIENCE DEGREE

The Bachelor of Science degree with a major in Technology offers five emphasis areas: *Technical Studies, Technology Management, Computer Aided Drafting and Design, 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.

The ***Computer Aided Drafting and Design*** option is focused to develop and train qualified personnel in the use of computer aided technology for designing objects, real or virtual. The design of geometrics models using parametric procedures, using driven dimension, and tolerances. These procedures in CAD, will allow students the ability to apply the principles in manufacturing settings. Graduates with this emphasis will serve all manufacturing clients such as Civil, Mechanical, Electrical, and Industrial engineering groups.

Prior Learning Assessment is a program that enables students to earn college credit for learning acquired outside of the traditional college classroom. Seminars are provided to assist students in the development of prior learning portfolios. Upon completion of the assessment process, up to 25 percent of the degree requirements may be awarded using TECH 3721-9, Technical Career Subjects and/or TECH 1891-9, Occupational Studies Credit.

Students who are graduates of two-year occupational programs may be considered as candidates to enroll in the Bachelor of Science - Technology degree program.

The Bachelor of Science - Technology degree is accredited by the Higher Learning Commission.

Major in Technology

Bachelor of Science
Emphasis in Computer Aided Drafting and Design
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
CIT 3013 Management Information Systems	3
ENG 3043, Technical Writing	3
MGMT 3153, Organizational Management **OR** Sociology Elective **OR** Psychology Elective	3
RET 3113, Fund. Applications of Renewable Energy	3
TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
TECH 4853, Lean 6 Sigma for Manufacturing	3
TECH 4883, Work Center Management	3
Sub-total	**30**
Emphasis Area (Computer Aided Drafting and Design): Grade of "C" or better required for all Emphasis Area Requirements	**Sem. Hrs.**
MATH 1033, Plane Trigonometry	3
TECH 2453, Technology Design - Solid Works I	3
TECH 2863, Principles of Technology	3
TECH 3413, AutoCAD / Inventor	3
TECH 3403, Pro Engineer	3
TECH 3433, AutoCAD 3-D Modeling	3
TECH 3453, Advanced Technology Design - Solid Works II	3
TECH 3473, Structural Drafting	3
TECH 3843, Manufacturing Materials and Processes	3
TECH 3853, Computer Aided Manufacturing (CAM)	3
TECH 3873, Tool Design	3
TECH 4743, Computer Numeric Control	3
TECH 4873, Motion and Time Study	3
Sub-total	**39**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Technology

Bachelor of Science
Emphasis in Computer Systems

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
CIT 3013 Management Information Systems	3
ENG 3043, Technical Writing	3
MGMT 3153, Organizational Management **OR** Sociology Elective **OR** Psychology Elective	3
RET 3113, Fund. Applications of Renewable Energy	3
TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
TECH 4853, Lean 6 Sigma for Manufacturing	3
TECH 4883, Work Center Management	3
Sub-total	**30**
Emphasis Area (Computer Systems): Grade of "C" or better required for all Emphasis Area Requirements Courses denoted below with an asterisk (*) cannot be taken on the ASU-J campus; they are taught only at the 2+2 program institutions.	**Sem. Hrs.**
* TECH 1013, Networking Essentials - Cisco I	3
* TECH 1023, Router Technologies - Cisco II	3
* TECH 2033, Advanced Routing and Switching - Cisco III	3
* TECH 2043, WAN Technologies and Design - Cisco IV	3
* TECH 2053, Building Scalable Networks - Cisco V	3
* TECH 2063, Remote Access Networks - Cisco VI	3
TECH 4843, Labor Relations	3
TECH 2863, Principles of Technology	3
Technology Electives	15
Sub-total	39
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Major in Technology

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
CIT 3013 Management Information Systems	3
ENG 3043, Technical Writing	3
MGMT 3153, Organizational Management **OR** Sociology Elective **OR** Psychology Elective	3
RET 3113, Fund. Applications of Renewable Energy	3
TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
TECH 4853, Lean 6 Sigma for Manufacturing	3
TECH 4883, Work Center Management	3
Sub-total	**30**
Emphasis Area (Manufacturing - Industrial): Grade of "C" or better required for all Emphasis Area Requirements	**Sem. Hrs.**
TECH 2863, Principles of Technology	3
TECH 3803, Electrical Systems	3
TECH 3823, Mechanics I	3
TECH 3883, Machine Design	3
TECH 3843, Manufacturing Materials & Processes	3
TECH 3873, Tool Design	3
TECH 3813, Programmable Logic Control	3
TECH 4843, Labor Relations	3
TECH 4873, Motion and Time Study	3
Technology Electives	12
Sub-total	**39**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Major in Technology

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
CIT 3013 Management Information Systems	3
ENG 3043, Technical Writing	3
MGMT 3153, Organizational Management **OR** Sociology Elective **OR** Psychology Elective	3
RET 3113, Fund. Applications of Renewable Energy	3
TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
TECH 4853, Lean 6 Sigma for Manufacturing	3
TECH 4883, Work Center Management	3
Sub-total	**30**
Emphasis Area (Technology Management): Grade of "C" or better required for all Emphasis Area Requirements	**Sem. Hrs.**
TECH 2863, Principles of Technology	3
TECH 3713, Fiscal Aspects	3
TECH 3753, Legal Aspects	3
TECH 3843, Manufacturing Materials and Processes	3
TECH 4843, Labor Relations	3
Accounting Electives	3-6
Management Electives	6-9
Technology Electives	9-15
Sub-total	**39**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Major in Technology

Bachelor of Science
Emphasis in Technical Studies

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course	**Sem. Hrs.**
AGRI 1213, Making Connections in Agriculture	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
CIT 3013 Management Information Systems	3
ENG 3043, Technical Writing	3
MGMT 3153, Organizational Management **OR** Sociology Elective **OR** Psychology Elective	3
RET 3113, Fund. Applications of Renewable Energy	3
TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
TECH 4853, Lean 6 Sigma for Manufacturing	3
TECH 4883, Work Center Management	3
Sub-total	**30**
Emphasis Area (Technical Studies): Grade of "C" or better required for all Emphasis Area Requirements	**Sem. Hrs.**
TECH 2863, Principles of Technology	3
TECH 3843, Manufacturing Materials and Processes	3
TECH 4843, Labor Relations	3
Technical Electives (ENGR, MATH, PHYS, CHEM, RET, CIT)	12
Technology Electives	18
Sub-total	**39**
Electives:	**Sem. Hrs.**
Electives	**13**
Total Required Hours:	**120**

Bachelor of Applied Science*

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

University Requirements:	
Students interested in pursuing a Bachelor of Applied Science degree must schedule a personal interview with a BAS advisor. During this interview, the advisor will outline in detail the requirements for the BAS program. The advisor 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 ASU admission application process with acceptance. 4. Completion of the State Minimum General Education Core. 5. Completion of a total of 120 hours of which 45 hours are upper-level (3000-4000) 6. Minimum GPA of 2.00 on all coursework at ASU and a 2.00 average on all coursework presented for graduation. ***The Bachelor of Applied Science degree program does not have a major.***	
General Education Requirements:	**Sem. Hrs.**
Communication (9 hrs required) COMS 1203, Oral Communications ENG 1003, Composition I (C or Better) ENG 1013, Composition II (C or Better)	9
Math (3 hours required) MATH 1023, College Algebra (or any MATH course that requires MATH 1023 as a prerequisite.)	3
Science (8 hours required) **Select one of the following combinations:** BIO 2013 **AND** 1021, Biology of the Cell and Laboratory BIO 2103 **AND** 2101, Microbiology for Nursing and Laboratory BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory BIOL 1003 **AND** 1001, Biological Science and Laboratory BIOL 1033 **AND** 1001, Biology of Sex and Laboratory BIOL 1043 **AND** 1001, Plants and People and Laboratory BIOL 1063 **AND** 1001, People and the Environment and Laboratory **Select one of the following combinations:** CHEM 1013 **AND** 1011, General Chemistry I and Laboratory CHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry and Laboratory GEOL 1003 **AND** 1001, Environmental Geology and Laboratory PHSC 1014, Energy and the Environment PHSC 1203 **AND** 1201, Physical Science and Laboratory PHYS 1103 **AND** 1101, Intro to Space Science and Laboratory PHYS 2034, University Physics I PHYS 2054, General Physics I	8
Fine Arts and Humanities (6 hrs required) **Fine Arts (select one of the following):** ART 2503, Fine Arts-Visual MUS 2503, Fine Arts-Musical THEA 2503, Fine Arts-Theatre **Humanities (select one of the following):** ENG 2003, World Literature to 1660 ENG 2013, World Literature Since 1660 PHIL 1103, Introduction to Philosophy	6

Bachelor of Applied Science (cont.)

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

Social Sciences (9 hours required) HIST 2763, The United States To 1876 HIST 2773, The United States Since 1876 POSC 2103, Introduction to United States Government **Select two of the following:** ANTH 2233, Introduction to Cultural Anthropology CMAC 1003, Mass Communication ECON 2313 Principles of Macroeconomics ECON 2333, Economic Issues and Concepts GEOG 2613, Introduction to Geography HIST 1013, World Civilization to 1660 HIST 1023, World Civilization since 1660 POSC 1003, Introduction to Politics PSY 2013, Introduction to Psychology SOC 2213, Introduction to Sociology	9
Sub-total	**35**
Degree Requirements:	**Sem. Hrs.**
CIT 3013, Management Information Systems	3
ENG 3043, Technical Writing	3
MGMT 3153, Organizational Behavior	3
RET 3113, Fund. Applications of Renewable Energy	3
TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
TECH 4853, Lean 6 Sigma for Manufacturing	3
TECH 4883, Work Center Management	3
Sub-total	**30**
AAS Career Block:	**Sem. Hrs.**
AAS Technical Professional Courses *(Students with less than 40 hours must complete additional coursework to meet the 120 hours degree requirement. (PLA credit may be applicable))*	40
Focused Study:	**Sem. Hrs.**
In consultation with their advisor, students must select 15 hours of 3000-4000 level courses within one area of study.	15
Total Required Hours:	**120**

Bachelor of Applied Science*

Emphasis in Renewable Energy Technology

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

University Requirements:	
Students interested in pursuing a Bachelor of Applied Science degree must schedule a personal interview with a BAS advisor. During this interview, the advisor will outline in detail the requirements for the BAS program. The advisor 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 ASU admission application process with acceptance. 4. Completion of the State Minimum General Education Core. 5. Completion of a total of 120 hours of which 45 hours are upper-level (3000-4000) 6. Minimum GPA of 2.00 on all coursework at ASU and a 2.00 average on all coursework presented for graduation. **** The Bachelor of Applied Science with emphasis in Renewable Energy Technology degree program does not have a major.***	
General Education Requirements:	**Sem. Hrs.**
Communication (9 hrs required) COMS 1203, Oral Communications ENG 1003, Composition I (C or Better) ENG 1013, Composition II (C or Better)	9
Math (3 hours required) MATH 1023, College Algebra (or any MATH course that requires MATH 1023 as a prerequisite)	3
Science (8 hours required) **Select one of the following combinations:** BIO 2013 **AND** 1021, Biology of the Cell and Laboratory BIO 2103 **AND** 2101, Microbiology for Nursing and Laboratory BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory BIOL 1003 **AND** 1001, Biological Science and Laboratory BIOL 1033 **AND** 1001, Biology of Sex and Laboratory BIOL 1043 **AND** 1001, Plants and People and Laboratory BIOL 1063 **AND** 1001, People and the Environment and Laboratory **Select one of the following combinations:** CHEM 1013 **AND** 1011, General Chemistry I and Laboratory CHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry and Laboratory GEOL 1003 **AND** 1001, Environmental Geology and Laboratory PHSC 1014, Energy and the Environment PHSC 1203 **AND** 1201, Physical Science and Laboratory PHYS 1103 **AND** 1101, Intro to Space Science and Laboratory PHYS 2034, University Physics I PHYS 2054, General Physics I	8
Fine Arts and Humanities (6 hrs required) **Fine Arts (select one of the following):** ART 2503, Fine Arts-Visual MUS 2503, Fine Arts-Musical THEA 2503, Fine Arts-Theatre **Humanities (select one of the following):** ENG 2003, World Literature to 1660 ENG 2013, World Literature Since 1660 PHIL 1103, Introduction to Philosophy	6

Bachelor of Applied Science (cont.)

Emphasis in Renewable Energy Technology

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

Social Sciences (9 hours required) HIST 2763, The United States To 1876 HIST 2773, The United States Since 1876 POSC 2103, Introduction to United States Government **Select two of the following:** ANTH 2233, Introduction to Cultural Anthropology CMAC 1003, Mass Communication ECON 2313 Principles of Macroeconomics ECON 2333, Economic Issues and Concepts GEOG 2613, Introduction to Geography HIST 1013, World Civilization to 1660 HIST 1023, World Civilization since 1660 POSC 1003, Introduction to Politics PSY 2013, Introduction to Psychology SOC 2213, Introduction to Sociology	9
Sub-total	**35**
Degree Requirements:	**Sem. Hrs.**
CIT 3013, Management Information Systems	3
ENG 3043, Technical Writing	3
MGMT 3153, Organizational Behavior	3
RET 3113, Fund. Applications of Renewable Energy	3
TECH 3773, Statistics	3
TECH 3863, Industrial Safety	3
TECH 4813, Operations Systems Research	3
TECH 4823, Quality Assurance	3
TECH 4853, Lean 6 Sigma for Manufacturing	3
TECH 4883, Work Center Management	3
Sub-total	**30**
AAS Career Block:	**Sem. Hrs.**
AAS Technical Professional Courses *(Students with less than 40 hours must complete additional coursework to meet the 120 hours degree requirement. (PLA credit may be applicable))*	40
Emphasis Area (Renewable Energy Technology):	**Sem. Hrs.**
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 4313, Wind Energy Technology	3
Sub-total	**15**
Total Required Hours:	**120**

Technology Program Minors

Minor in Renewable Energy Technology

Required Courses:	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 4313, Wind Energy Technology	3
Total Required Hours:	**18**

ASSOCIATE OF SCIENCE IN TECHNOLOGY

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 requirements when a four-year degree is not warranted.

The student must complete a minimum of 62 credit-hours of work and must adhere to all policies established by the university. Flexibility is provided through counseling and the review of prior experience which may be substituted for formal college credit.

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

Major in Technology

Associate of Science

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Science Degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*	**35**
Major Requirements:	**Sem. Hrs.**
TECH 1413, Engineering Graphics	3
TECH 2863, Principles of Technology	3
TECH 3773, Statistics	3
Technology Electives	9
Sub-total	**18**
Electives:	**Sem. Hrs.**
Technical Electives	**9**
Total Required Hours:	**62**

College of Business

Associate Professor Shane Hunt, Dean
Professor Jim Washam, Associate Dean

MISSION STATEMENT

The mission of the ASU College of Business is to provide high-quality management education to traditional and non-traditional students in the MidSouth and to provide support for businesses and communities through research, economic development activities, and consultative services.

The college strives to build challenging programs of excellence with emphasis on leadership/values, international business, technology, entrepreneurship, and economic development through an educational process that fosters analytical thinking, problem solving, communication skills, and experiential learning. Emphasis is placed on undergraduate education, while meeting the needs of the business community through select graduate degrees and professional workforce development programs.

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

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

Because knowledge of technology is essential to success in business, the college provides three modern computer labs for student use. To broaden their educational experiences, students may become involved in auxiliary and outreach activities through the 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.

Two graduate degrees are available in the College of Business: the Master of Business Administration (MBA) and the Master of Accountancy (MACC). Students should refer to the Graduate Bulletin for complete details about these programs.

DEGREE REQUIREMENTS

BACCALAUREATE DEGREES

Except for business technology and economics majors, College of Business students who meet the prescribed degree requirements will be awarded the Bachelor of Science degree. Students majoring in business technology will be awarded the Bachelor of Science in Education degree upon completion of their degree requirements. Students majoring in economics will be awarded the Bachelor of Arts degree upon completion of their degree requirements. Students following a program leading to a degree in the College of Business are required to complete a minimum of 43 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 and Behavioral Science.

In addition to meeting the University Requirements for all Baccalaureate Degrees (refer to index for page reference) as presented by the university, any candidate for a degree in the College of Business must also meet the following specific requirements:

1. Maintain a minimum GPA of 2.25 or a grade of at least a “C” for each course in the College of Business core courses, based on the last grade earned in each course.
2. Maintain a minimum GPA of 2.25 or a grade of at least a “C” for each required course in the major, based on last grade earned in each course.

3. Maintain an overall GPA of 2.25.
4. Complete at least 30 of the last 36 semester hours in courses offered by ASU-Jonesboro. At least 50 percent of the business credit hours required for a baccalaureate degree and 50 percent of business courses required for a major in business must be earned in the ASU-Jonesboro College of Business.
5. Take freshman and sophomore courses prior to taking junior and senior business courses. The student must earn 45 Junior/Senior hours. No upper-level degree credit will be given for courses taken prior to the completion of 54 semester hours of earned credit.

A College of Business student may take a double major in business. She/he may also elect a business minor, in consultation with his/her advisor. Students majoring in the College of Business may not minor in Business Administration.

NOTE: 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.

COLLEGE OF BUSINESS CORE COURSES

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 or 2.25 overall core GPA required Courses denoted below by an asterisk (*) must be completed before enrolling in upper (junior/senior) level classes.	**Sem. Hrs.**
*ACCT 2033, Introduction to Financial Accounting	3
*ACCT 2133, Introduction to Managerial Accounting	3
BCOM 2563, Business Communication	3
*CIT 1503, Microcomputer Applications **OR** CS 1013, Introduction to Computers	3
CIT 3013, Management Information Systems	3
CIT 3523, Operations Management	3
*ECON 2113, Business Statistics I	3
*ECON 2323, Principles of Microeconomics	3
FIN 3713, Business Finance	3
LAW 2023, Legal Environment of Business	3
MGMT 3153, Organizational Behavior	3
MGMT 4813, Strategic Management	3
MKTG 3013, Marketing	3
Total Required Hours:	**39**

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 that includes General Education requirements and all lower-level College of Business courses except for BCOM 2563 and LAW 2023; (2) complete MATH 2143; (3) complete and file a degree plan which is done in consultation with the student's advisor.

Students majoring in fields outside the College of Business may enroll in upper-level courses in business, provided they have the proper prerequisites, and have completed 54 semester hours of credit prior to enrollment. Students not majoring in business are limited to a maximum of 30 semester hours of College of Business courses. Students not enrolled in the College of Business will need to contact the relevant department to obtain a permit for registration in upper-level courses.

Department of Accounting

Professor, John Robertson, Chair
Professors: *Dancer, Quinn*
Assistant Professors: *Kim, Laird, Pae, Peterson*
Instructors: *Carmack, Powell*

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 120 course hours. Many states, including Arkansas, currently require 150 hours to sit for the Certified Public Accountant (CPA) exam. The CPA license is only required by law for individuals doing audits; however, many non-auditors 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 30 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.

Accounting majors (a) should not take accounting courses during their freshman year and (b) should consult with their advisors concerning CPA exam requirements.

Please visit http://www.astate.edu/college/business/.

Major in Accounting

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
ACCT 3003, Intermediate Accounting I	3
ACCT 3013, Intermediate Accounting II	3
ACCT 3033, Intermediate Accounting III	3
ACCT 3053, Cost Accounting with a Managerial Emphasis	3
ACCT 4013, Tax Accounting I	3
ACCT 4033, Accounting Information Systems	3
ACCT 4053, Auditing I	3
LAW 4043, Law of Business Organizations	3
Accounting Elective *ACCT 430V, Special Problems in Accounting and ACCT 4783, Internship in Accounting MAY NOT be used to satisfy the Accounting Elective.*	3
Sub-total	**27**
Electives:	**Sem. Hrs.**
Electives	**16**
Total Required Hours:	**120**

Department of Accounting Minors

Minor in Accounting

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
ACCT 2133, Introduction to Managerial Accounting	3
ACCT 3003, Intermediate Accounting I	3
ACCT 3013, Intermediate Accounting II	3
ACCT 3053, Cost Accounting with a Managerial Emphasis	3
ACCT 4013, Tax Accounting I	3
ECON 2333, Economics Issues and Concepts, **OR** ECON 2323, Principles of Microeconomics	3
Total Required Hours:	**21**

Department of Computer and Information Technology

Professor John Robertson, Chair
Professors: *Fish, Jones, Moeeni, R. Ruby, Segall, Seydel*
Associate Professors: *P. Ruby, Sinclaire, Syamil, Zhang*

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

BUSINESS TECHNOLOGY PROGRAM:

In conjunction with the College of Education and Behavioral Science, 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 and Behavioral Science, 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 Behavioral Science, 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 additional 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 electronic commerce 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://www.astate.edu/college/business/ for further information about the CIT Department, its degree programs, classes, and more.

Major in Computer and Information Technology

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section) *Grade of "C "or better required in CIT 3013, Management Information Systems*	**39**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
CIT 2033, Programming Fundamentals	3
CIT 2523, Telecommunications and Networking Essentials	3
CIT 3403, Database Management	3
CIT 4453, Global E-Commerce	3
CIT 4653, Automatic Data Capture	3
CIT 4853, IT Project Management	3
Select five of the following: CIT 3033, Intermediate Programming CIT 3353, Mobile and Web Applications Development CIT 3413, Advanced Database Management CIT 3623, LAN Administration CIT 3663, Data Mining CIT 3853, Computer Forensics CIT 409V, Special Problems in CIT CIT 4523, Advanced Network Telecommunications CIT 4623, Computer Security CIT 4863, Current Topics in CIT CIT 4883, Internship in CIT	15
Sub-total	**33**
Electives:	**Sem. Hrs.**
Electives	**10**
Total Required Hours:	**120**

ASSOCIATE OF SCIENCE IN COMPUTER AND INFORMATION TECHNOLOGY

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.

Major in Computer and Information Technology

Associate of Science

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Science Degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *COMS 1203, Oral Communications* *ECON 2313, Principles of Macroeconomics*	**35**
Major Requirements:	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
CIT 1503, Microcomputer Applications **OR** CS 1013, Introduction to Computers	3
CIT 2033, Programming Fundamentals	3
CIT 2523, Telecommunications and Networking Essentials	3
CIT 3013, Management Information Systems	3
CIT 3403, Database Management	3
CIT or CS Electives *CS 1013 may not be used to satisfy this requirement.*	6
Sub-total	**24**
Electives:	**Sem. Hrs.**
Electives	**1**
Total Required Hours:	**60**

Certificate in Business Information Systems (BIS)

The BIS program is intended to deliver training that provides foundation working knowledge in information technology. The resulting certificate is independent of any degree program and can be used either to enhance whatever degree is being pursued by the student or to demonstrate IT accomplishments of the non-degree-seeking student. For the latter, the BIS certificate incorporates a basic communications component, a Business foundation component, and a strong basic IT component.

Requirements:	
Communications Component	**Sem. Hrs.**
ENG 1003, Composition I	3
ENG 1013, Composition II	3
Business Knowledge Component	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
Business Electives	6
Information Technology Component	**Sem. Hrs.**
CIT 1503, Microcomputer Applications	3
CIT 2033, Programming Fundamentals	3
CIT 3403, Database Management	3
Total Required Hours:	**24**

Department of Computer and Information Technology Minors

Minor in Computer and Information Technology

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
CIT 2033, Programming Fundamentals	3
CIT 2523, Telecommunications and Networking Essentials	3
CIT 3013, Management Information Systems	3
CIT 3403, Database Management	3
Select two of the following: CIT 4453, Global E-commerce CIT 4653, Automatic Data Capture CIT 4853, IT Project Management	6
Total Required Hours:	**18**

Minor in Electronic Commerce

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
CIT 3353, Mobile and Web Applications Development **OR** MMJ 4373, Internet Communications	3
CIT 3403, Database Management	3
CIT 4453, Global E-Commerce	3
MKTG 3013, Marketing **OR** MKTG 3163, Supply Chain Management	3
Select two of the following: CIT 2033, Programming Fundamentals CIT 4883, Internship (in area in E-Commerce) **OR** MKTG 4283, Internship GCOM 3673, Digital Design	6
Total Required Hours:	**18**

Department of Economics and Finance

Associate Professor Patricia Quinn Robertson, Chair
Professors: *Brown, Crawford, Kesselring, Latanich, Marburger, Pittman, Taylor*
Associate Professors: *Guha, Kern*
Assistant Professors: *Hu, Tew*
Instructors: *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 major graduates 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 Business Administration

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
Select one from each of the following categories:	
Accounting Elective ACCT 3053, Cost Accounting with a Managerial Emphasis ACCT 4013, Tax Accounting I ACCT 4153, Fraud Examinations	3
Finance Elective FIN 3763, Financial Institutions and Markets FIN 4723, Investments FIN 4743, Managerial Finance FIN 4753, Capital Management	3
International Elective ECON 4103, International Trade ECON 4143, Export Policy and Procedures ECON 4353, Economic Development FIN 3813, International Finance Management and Banking	3
Macro Economics Elective ECON 3323, Money and Banking ECON 3353, Macroeconomic Analysis ECON 3363, Labor Economics ECON 4323, Economic Policy Analysis	3
Management Elective MGMT 3143, Human Resource Management MGMT 3183, Entrepreneurship MGMT 3613, Leadership MGMT 4123, International Management MGMT 4163, Small Business Management	3
Marketing Elective MKTG 3033, Advertising and Promotion MKTG 3043, Retailing MKTG 4023, Services Marketing MKTG 4043, Consumer Behavior MKTG 4113, International Marketing	3
Micro Economics Elective ECON 3313, Microeconomic Analysis ECON 4303, Sports Economics ECON 4333, Government Regulations of Business ECON 4343, Managerial Economics ECON 4363, Global Environmental Policies	3
Upper-level Business Elective	3
Sub-total	**24**

Major in Business Administration (cont.)

Bachelor of Science

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

Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in Business Administration

Bachelor of Science
Emphasis in Sustainable Business Practices

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
Select one from each of the following categories:	
Accounting Elective ACCT 3053, Cost Accounting with a Managerial Emphasis ACCT 4013, Tax Accounting I ACCT 4153, Fraud Examinations	3
Finance Elective FIN 3763, Financial Institutions and Markets FIN 4723, Investments FIN 4743, Managerial Finance FIN 4753, Capital Management	3
International Elective ECON 4103, International Trade ECON 4143, Export Policy and Procedures ECON 4353, Economic Development FIN 3813, International Finance Management and Banking	3
Macro Economics Elective ECON 3323, Money and Banking ECON 3353, Macroeconomic Analysis ECON 3363, Labor Economics ECON 4323, Economic Policy Analysis	3
Sub-total	**12**
Emphasis Area (Sustainable Business Practices):	**Sem. Hrs.**
MGMT 3193, Social Impact Management	3
MKTG 4393, Social Marketing	3
ECON 4363, Global Environmental Policies	3
Select one of the following: AGRI 4223, Agriculture and the Environment ECON 468V (Special Problems, with Economics and Finance department approval) FIN 489V (Special Problems, with Economics and Finance department approval) IB 427V (Special Problems, with Economics and Finance department approval) MGMT 429V (Special Problems, with Economics and Finance department approval) MKTG 419V (Special Problems, with Economics and Finance department approval)	3
Sub-total	**12**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Business Economics

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
ECON 3313, Microeconomic Analysis	3
ECON 3323, Money and Banking	3
ECON 3353, Macroeconomic Analysis	3
Upper-level Economics Electives *Students with this major must select at least one course from each of the following categories to fulfill upper-level elective requirements.* **International** ECON 4103, International Trade ECON 4143, Export Policy and Procedures ECON 4353, Economic Development ECON 468V, Special Problems in Economics **Public Policy and Business** ECON 4323, Economic Policy Analysis ECON 4333, Government Regulation of Business ECON 4363, Global Environmental Policies ECON 468V, Special Problems in Economics **Theory of the Firm** ECON 3363, Labor Economics ECON 4343, Managerial Economics ECON 468V, Special problems in Economics	15
Sub-total	**24**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in Economics

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem. Hrs.**
Foreign Language (refer to index for page reference)	**0-12**
Major Requirements:	**Sem. Hrs.**
CIT 3013, Management Information Systems	3
ECON 2313, Principles of Macroeconomics *Required ONLY if not taken to satisfy a part of the General Education Requirements*	0-3
ECON 2323, Principles of Microeconomics	3
ECON 3313, Microeconomic Analysis	3
ECON 3323, Money and Banking	3
ECON 3353, Macroeconomic Analysis	3
Upper-level Economics Electives	12
Upperl-level History Electives	3
Upper-level Political Science Electives	6
Upper-level Sociology Elective	3
Sub-total	**39-42**
Electives:	**Sem. Hrs.**
Electives	**28-43**
Total Required Hours:	**120**

Major in Economics

Bachelor of Arts
Emphasis in Pre-Law

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem. Hrs.**
Foreign Language (refer to index for page reference)	**0-12**
Major Requirements:	**Sem. Hrs.**
ECON 2313, Principles of Macroeconomics *Required ONLY if not taken to satisfy a part of the General Education Requirements*	0-3
ECON 2323, Principles of Microeconomics	3
ECON 3313, Microeconomic Analysis	3
ECON 3353, Macroeconomic Analysis	3
ENG 3013, Practical Writing **OR** ENG 3043, Technical Writing	3
LAW 2023, Legal Environment of Business	3
PHIL 1503, Logic and Practical Reasoning	3
COMS 2243, Principles of Argumentation **OR** COMS 3243, Principles of Persuasion	3
Economics Electives *Choose any four upper-level.*	12
Philosophy and Political Science Electives *Choose any three upper-level.*	9
Law and Management Electives (select two of the following): LAW 4033, Law of Commercial Transactions LAW 4043, Law of Business Organizations LAW 4053, Employment Law MGMT 3163, Labor Relations and Collective Bargaining REI 4413, Real Estate Law	6
Sub-total	**48-51**
Electives:	**Sem. Hrs.**
Electives	**19-34**
Total Required Hours:	**120**

Major in Finance

Bachelor of Science
Emphasis in Financial Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
ACCT 3003, Intermediate Accounting I	3
FIN 3763, Financial Institutions and Markets **OR** ECON 3323, Money and Banking	3
FIN 4723, Investments	3
FIN 4753, Capital Management	3
Sub-total	**12**
Emphasis Area (Financial Management):	**Sem. Hrs.**
Select four of the following (two must be FIN or REI courses): AGEC 3053, Commodity Futures Markets MKTG 3093, Professional Selling and Sales Management STAT 3233, Applied Statistics I Any upper-level ECON Course Any upper-level FIN Course Any upper-level REI Course Any upper-level ACCT Course	12
Sub-total	**12**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in Finance

Bachelor of Science
Emphasis in Banking

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
ACCT 3003, Intermediate Accounting I	3
FIN 3763, Financial Institutions and Markets **OR** ECON 3323, Money and Banking	3
FIN 4723, Investments	3
FIN 4753, Capital Management	3
Sub-total	**12**
Emphasis Area (Banking):	**Sem. Hrs.**
FIN 3773, Financial Risk Management	3
FIN 4743, Managerial Finance	3
FIN 4763, Bank Management	3
FIN 4773, Advanced Bank Management	3
Select one of the following: ACCT 3013, Intermediate Accounting II ECON 3323, Money and Banking ECON 4343, Managerial Economics FIN 3813, International Financial Management & Banking MKTG 3023, Applied Research REI 4423, Real Estate Finance	3
Sub-total	**15**
Electives:	**Sem. Hrs.**
Electives	**16**
Total Required Hours:	**120**

Department of Finance Minors

Minor in Economics

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
ECON 2313, Principles of Macroeconomics	3
ECON 2323, Principles of Microeconomics	3
ECON 3313, Microeconomic Analysis	3
ECON 3353, Macroeconomic Analysis	3
Upper-level Economics Electives	6
Total Required Hours:	**18**

Minor in Finance

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
FIN 3713, Business Finance	3
FIN 3763, Financial Markets and Institutions **OR** ECON 3323, Money and Banking	3
FIN 4723, Investments	3
FIN 4753, Capital Management	3
Upper-level FIN or REI Electives	6
Total Required Hours:	**18**

Minor in Financial Wealth Management

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
ACCT 2023, Fundamental Accounting Concepts *Non-College of Business majors are required to take this course.*	0-3
ACCT 4013, Tax Accounting I	3
ACCT 4163, Estate Planning	3
FIN 2013, Personal Asset Management **OR** FIN 4723, Investments	3
FIN 4013, Financial Wealth Management	3
LAW 4043, Law of Business Organizations	3
MKTG 3093, Professional Selling and Sales Management	3
Total Required Hours:	**18-21**

Department of Finance Minors

Minor in General Business

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
ACCT 2023, Fundamental Accounting Concepts **OR** ACCT 2133, Introduction to Managerial Accounting	3
ECON 2323, Principles of Microeconomics **OR** ECON 2333, Economic Issues and Concepts	3
FIN 3713, Business Finance	3
LAW 2023, Legal Environment of Business	3
MGMT 3153, Organizational Behavior	3
MKTG 3013, Marketing	3
Upper-level College of Business Elective	3
Total Required Hours:	**21**

Department of Management and Marketing

Associate Professor Melodie Philhours, Interim Chair
Professors: *Bevill, Frey, Hester, G. Hudson, T. Hudson, Nonis, Roe*
Associate Professors: *Chang, Cocchiara, Hunt, Mello, Philhours, Relyea, Cocchiara*
Assistant Professors: *McDaniel*

The Department of Management and Marketing offers a curriculum designed to provide professional training as well as to develop the competence of students seeking careers within business enterprises. Business executives have taken on increasing responsibilities during recent years due to a growing realization that the employees of their firms and the markets they serve have become more complex and demanding. The five majors within the department offer positive programs of learning designed to contribute to the students' advancement in the business world.

MANAGEMENT PROGRAM:

Management is getting work done through other people. Managers perform a wide range of workplace activities, from establishing organization goals and ensuring progress towards those goals to organizing when and how activities and resources should be grouped together. Managers are asked to solve challenging workplace problems, often with limited human and financial resources. The Management major prepares students to design rewards for improved performance, set goals that motivate workers, and build an environment to create and sustain a competitive advantage. Elective concentration may be chosen in Human Resource Management or Hospitality Management.

MARKETING PROGRAM:

The fundamental purpose of marketing is to create value for your customers. This purpose is fulfilled by both organizations and individuals in both profit and not for profit settings. Fulfilling this purpose requires the creation, communication and delivery of a product, service or idea so that exchange can take place. The major in marketing prepares students to plan and implement successful marketing strategies across a variety of industries. Elective concentration may be chosen in Marketing Management or Logistics.

INTERNATIONAL BUSINESS PROGRAM:

In today's global marketplace, all business is international! The major in International Business prepares students for managerial careers in this global market. It is interdisciplinary in nature and emphasizes the development of language skills and an understanding of the sociocultural, political, managerial, marketing and economic processes in an international environment.

Major in Global Supply Chain Management

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
IB 4143, Export Policy & Procedures	3
MKTG 3023, Applied Research	3
MKTG 3063, Transportation	3
MKTG 3163, Supply Chain Management	3
MKTG 4103, Concepts of Business Logistics	3
MKTG 4123, Organizational Purchasing	3
MKTG 4133, International Logistics	3
Select one of the following: ACCT 3053, Cost Accounting with a Managerial Emphasis CIT 4453, Global E Commerce CIT 4853, IT Project Management ECON 4103, International Trade MGMT 4123, International Management MKTG 4113, International Marketing	3
Sub-total	**24**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in International Business

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Language Requirements	**Sem. Hrs.**
French, German, Chinese, Arabic, or Spanish *International Business majors should take their foreign language during their freshman and sophomore years. No waiver will be allowed for the language requirement. If English is a second language, 12 hours of 3000 level English courses may be used to meet the language requirement.*	**12**
Major Requirements:	**Sem. Hrs.**
CIT 4453, Global E-Commerce	3
FIN 3813, International Financial Management and Banking	3
ECON 4143, Export Policies and Procedures	3
MKTG 4113, International Marketing	3
MKTG 4133, International Logistics and Outsourcing	3
MGMT 3193, Social Impact Management	3
MGMT 4123, International Management	3
Select one of the following: IB 3013, Global Leadership Experience IB 4283, International Business Practicum	3
Sub-total	**24**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**7**
Total Required Hours:	**120**

Major in Management

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
MKTG 3023, Applied Research	3
MGMT 3143, Human Resource Management	3
MGMT 4123, International Management	3
Sub-total	**9**
Emphasis Area (General Management):	**Sem. Hrs.**
MGMT 3123, Principles of Management	3
MGMT 3613, Leadership	3
MGMT 4163, Small Business Management	3
Select two of the following: ACCT 3053, Cost Accounting with a Managerial Emphasis MGMT 3163, Labor Relations and Collective Bargaining **OR** MGMT 4173, Compensation Management MGMT 3183, Entrepreneurship MGMT 3193, Social Impact Management MGMT 4143, Organizational Change and Development MGMT 4183, Family Business Management MGMT 4193, Management Internship MGMT 4393, Management of Service Operations **OR** MKTG 4023, Services Marketing	6
Sub-total	**15**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in Management

Bachelor of Science
Emphasis in Hospitality Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
MKTG 3023, Applied Research	3
MGMT 3143, Human Resource Management	3
MGMT 4123, International Management	3
Sub-total	**9**
Emphasis Area (Hospitality Management):	**Sem. Hrs.**
ACCT 3063, Hospitality Accounting	3
LAW 4063, Hospitality Law	3
MKTG 3033, Advertising & Promotion	3
MKTG 4023, Services Marketing	3
MGMT 4193, Management Internship **OR** MKTG 4283, Marketing Internship	3
Sub-total	**15**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in Management

Bachelor of Science
Emphasis in Human Resource Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
MKTG 3023, Applied Research	3
MGMT 3143, Human Resource Management	3
MGMT 4123, International Management	3
Sub-total	**9**
Emphasis Area (Human Resource Management):	**Sem. Hrs.**
LAW 4053, Employment Law	3
MGMT 3163, Labor Relations and Collective Bargaining	3
MGMT 4173, Compensation Management	3
Select two of the following: BCOM 3573, Managerial Communication MGMT 3173, Special Topics in Human Resources MGMT 3193, Social Impact Management MGMT 4143, Organizational Change and Development MGMT 4193, Management Internship	6
Sub-total	**15**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in Marketing

Bachelor of Science
Emphasis in Marketing Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
MKTG 3023, Applied Research	3
MKTG 3163, Supply Chain Management	3
MKTG 4043, Consumer Behavior	3
MKTG 4083, Marketing Research Design and Analysis	3
MKTG 4223, Marketing Management	3
Sub-total	**15**
Emphasis Area (Marketing Management):	**Sem. Hrs.**
MKTG 4113, International Marketing	3
Select two of the following (at least one must be in MKTG): ACCT 3053, Cost Accounting with a Managerial Emphasis BCOM 3573, Managerial Communication CIT 4453, Global E-Commerce ECON 4343, Managerial Economics MGMT 3183, Entrepreneurship MKTG 3033, Advertising and Promotion MKTG 3043, Retailing MKTG 3063, Transportation MKTG 3093, Professional Selling and Sales Management MKTG 4023, Services Marketing MKTG 4073, Social Media Marketing MKTG 4103, Concepts of Business Logistics MKTG 4123, Organizational Purchasing MKTG 4133, International Logistics and Outsourcing MKTG 4283, Marketing Internship MKTG 4343, Sports Marketing MKTG 4393, Social and Nonprofit Marketing	6
Sub-total	**9**
Electives:	**Sem. Hrs.**
Electives (must include at least 3 upper-level hours)	**19**
Total Required Hours:	**120**

Major in Marketing

Bachelor of Science
Emphasis in Logistics

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41) *(For College of Business requirements, see p. 132)*	
First Year Making Connections Course:	**Sem. Hrs.**
BUSN 1003, First Year Experience Business	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2143, Business Calculus with a "C" or better.* *ANTH 2233, Introduction to Cultural Anthropology* ***OR*** *SOC 2213, Introduction to Sociology* *ECON 2313, Principles of Macroeconomics* *COMS 1203, Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
College of Business Core Courses:	**Sem. Hrs.**
(See Beginning of Business Section)	**39**
Major Requirements:	**Sem. Hrs.**
MKTG 3023, Applied Research	3
MKTG 3163, Supply Chain Management	3
MKTG 4043, Consumer Behavior	3
MKTG 4083, Marketing Research Design and Analysis	3
MKTG 4223, Marketing Management	3
Sub-total	**15**
Emphasis Area (Logistics):	**Sem. Hrs.**
MKTG 3063, Transportation	3
MKTG 4103, Concepts of Business Logistics	3
MKTG 4133, International Logistics and Outsourcing	3
Select one of the following: ACCT 3053, Cost Accounting with a Managerial Emphasis BCOM 3573, Managerial Communication ECON 4333, Government Regulation of Business ECON 4343, Managerial Economics MGMT 4123, International Management MKTG 3043, Retailing MKTG 3093, Professional Selling and Sales Management MKTG 4123, Organizational Purchasing MKTG 4273, Supply Chain Management Internship	3
Sub-total	**12**
Electives:	**Sem. Hrs.**
Electives	**16**
Total Required Hours:	**120**

Department of Management and Marketing Minors

Minor in Entrepreneurship

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
ACCT 2033, Introduction to Financial Accounting	3
ECON 2313, Principles of Macroeconomics **OR** ECON 2323, Principles of Microeconomics	3
FIN 3713, Business Finance	3
MKTG 3013, Marketing	3
MGMT 3183, Entrepreneurship	3
MGMT 4163, Small Business Management	3
MGMT 4183, Family Business Management	3
Total Required Hours:	**21**

Minor in International Business

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
MGMT 4123 International Management	3
MKTG 4113 International Marketing	3
MKTG 4133 International Logistics and Outsourcing	3
ECON 4143 Export Policies and Procedures	3
CIT 4453 Technologies for Global E-Commerce	3
MGMT 3193 Social Impact Management	3
Total Required Hours:	**18**

Minor in Logistics

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor.	**Sem. Hrs.**
ECON 2313, Principles of Macroeconomics **OR** ECON 2323, Principles of Microeconomics	3
MKTG 3013, Marketing	3
MKTG 3063, Transportation	3
MKTG 3163, Supply Chain Management	3
MKTG 4103, Concepts of Logistics	3
MKTG 4133, International Logistics and Outsourcing	3
Total Required Hours:	**18**

Department of Management and Marketing Minors (cont.)

Minor in Management

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor. The ECON and ACCT courses listed below are prerequisites for MGMT 3153.	**Sem. Hrs.**
ACCT 2023, Fundamental Accounting Concepts **OR** ACCT 2033, Introduction to Financial Accounting	3
ECON 2323, Principles of Microeconomics **OR** ECON 2333, Economic Issues and Concepts	3
MGMT 3153, Organizational Behavior	3
Select three of the following: MGMT 3143, Human Resource Management MGMT 3163, Labor Relations and Collective Bargaining MGMT 3613, Leadership MGMT 4163, Small Business Management MGMT 4193, Internship	9
Total Required Hours:	**18**

Minor in Marketing

Required Courses: Students must maintain a minimum GPA of 2.25 or a grade of at least a "C" for each course in the minor. The ECON and ACCT courses listed below are prerequisites for MKTG 3013.	**Sem. Hrs.**
ACCT 2023, Fundamental Accounting Concepts, **OR** ACCT 2033, Introduction to Financial Accounting	3
ECON 2323, Principles of Microeconomics **OR** ECON 2333, Economic Issues and Concepts	3
MKTG 3013, Marketing	3
Select three upper-level Marketing courses: *Students may substitute PR 4113, Integrated Marketing Communications for one of the three upper-level Marketing courses.*	9
Total Required Hours:	**18**

College of Education and Behavioral Science

Professor Susan Hanrahan, Interim Dean

The faculty of the College of Education and Behavioral Science 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 and Behavioral Science:

ASU Childhood Services
Center for Excellence in Education
Department of Psychology and Counseling
Department of Teacher Education and Leadership
Department of Health, Physical Education, and Sport Sciences
Professional Education Programs

TEACHER EDUCATION PROGRAM

The College of Education and Behavioral Science 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 Behavioral Science and the interdisciplinary Council on Professional Education. It is strongly recommended that students interested in teacher education and teacher education majors consult their advisor frequently.

The Bachelor of Science in Education degree is offered in the following majors:

Agriculture Education (BSA)
Art
Business Education
Early Childhood Education (P-4)
Early Childhood Special Education (P-4)
English
General Science
—Biology
—Chemistry
—Physics
Mathematics
Middle-Level Education (4-8)
Music (BME)
Physical Education
Social Science
World Languages and Cultures
—French
—Spanish

The Title II Teacher Education Report Card was enacted by the United States Congress in 1998. Accountability measures for new teachers, which include standardized test scores and other information about the institution's teacher education program, are a part of the institutional and state reports mandated by this legislation. Institutions are required to report this information through publications such as school catalogs and promotional materials sent to prospective students, secondary guidance counselors, and potential employers of their graduates. With increased demands by the public for improved schools and increased student achievement, the knowledge, skills, and dispositions of teachers are central to the success of all students. One component of all teacher education programs is standardized tests. The PRAXIS I test assesses basic computation and literacy skills. The PRAXIS II assesses professional teaching knowledge and academic content knowledge. Below are the PRAXIS I and PRAXIS II scores for the Arkansas State University students during the 2011-2012 academic year. Additional information about teacher education programs at Arkansas State University may be accessed at http://www.astate.edu/education/.

TEACHER EDUCATION GRADUATES

Major Categories	ASU Pass Rate	State Pass Rate
Basic Skills [PRAXIS I]	100%	100%
*Professional Knowledge [PRAXIS II]	93%	96%
*Academic Content Area [PRAXIS II]	82%	92%

**These data reflect test takers, including those who were not reported in data below.*

ADMISSION AND RETENTION

All candidates for Bachelor of Science in Education, Bachelor of Music Education, and Bachelor of Science in Agriculture (Agriculture Education) degrees must obtain official admission into the Teacher Education Program.

Admission, retention, and course prerequisite/requirement details can also be found in the Teacher Education Handbook. Students choosing to make formal application and/or retention into the Teacher Education Program must meet requirements of the following five checkpoints listed below. Individual departments and programs may have admission and retention requirements that exceed those requirements identified below. Check with your academic advisor to determine if your program has additional requirements.

CHECKPOINT 1: ADMISSION INTO THE TEACHER EDUCATION PROGRAM

Students making formal application into the teacher education program must meet the following admission requirements.

ADMISSION REQUIREMENTS

1. Attain minimum passing scores on the Praxis I (PPST) for reading, math and writing tests (see form in the Teacher Education Handbook for minimum scores)
2. Attain minimum overall GPA of 2.50 (Program of Study students must have a minimum of 3.0 overall in courses for Program of Study.)
3. Complete the following courses with a grade of "C" or better in each: ENG 1003, Composition I; ENG 1013, Composition II; MATH 1023, College Algebra; Introduction to Education (specific to each department); and COMS 1203,Oral Communication or Speech Proficiency (as specified by the department)
4. Complete minimum of 30 semester hours
5. Complete an evaluation of Career Decision Awareness
6. Submit a completed application form
7. Submit a two-page typewritten philosophy of education
8. Obtain a signed Clarification of Teacher Education Admissions/Retention Standards
9. Appear individually for a personal interview before the Department Screening Committee
10. Verify no conviction of a felony or crimes listed in the Teacher Education Handbook
11. Verify that student has received a copy of the Conceptual Framework

Students will not be permitted to enroll in specified professional education courses until they have been formally admitted into the teacher education program. Such courses are designated in the respective programs in the Undergraduate Bulletin. When your application is approved by the Professional Education Programs Director, the student will receive a formal letter of acceptance. Official admittance to the teacher education program does not carry a guarantee of continuance in the program. In addition to the retention checkpoints described below, the student must maintain academic proficiency, moral responsibility, emotional stability, and satisfactory professional growth to continue in the program.

After being admitted into the teacher education program, the student must also meet specific performance measures to continue in the program. The student will be required to complete certain unit assessments as outlined in course syllabi and post his/her work to the unit's electronic portfolio system.

CHECKPOINT 2: PRE-TEACHER INTERN CHECK

Students must meet the following requirements one year prior to the internship semester to continue in the program.

1. Maintain a minimum overall GPA of 2.50 (minimum of 3.0 in all course work required for Program of Study students)
2. Earn a "C" or better in all Professional Education courses

CHECKPOINT 3: INTENT FOR TEACHING INTERNSHIP CHECK

Students must meet the following requirements one semester prior to the internship semester to continue in the program.

1. Maintain a minimum overall GPA of 2.50 (minimum of 3.0 in all course work required for Program of Study students)
2. Earn a "C" or better in all Professional Education courses

CHECKPOINT 4: INTERNSHIP CHECK

Students must meet the following minimum performance requirements to be validated for the internship.

1. Formal admittance into the teacher education program
2. Senior standing–a minimum of 90 semester hours
3. Pre-Teacher Intern Check Form filed with the Office of Professional Education Programs
4. Completion of professional education courses for secondary education majors and professional education/major courses for early childhood, early childhood/special education, (P-4) and middle level (4-8) majors with the exception of the teaching internship semester (students must have a 'C' or better in the Professional Education Courses.)
5. Attainment of a minimum grade point average of 2.50 in all course work and a minimum grade point average of 2.50 in the major area (a minimum of 3.0 in all course work is required for Program of Study (POS) students and a minimum grade point average of 3.0 in the major area)
6. Meet prescribed department proficiencies if required
7. Completion of intent application forms for teaching internship eight weeks before the end of the semester or one week before the pre-registration date of the semester preceding teaching internship
8. A medical examination report (TB skin test) to be presented at the time the candidate applies for teaching internship
9. Attend the orientation sessions for the teaching internship
10. Verification of no conviction of a felony or crimes listed in the Teacher Education Handbook
11. Verification of no Child Maltreatment

Transfer students must meet the above prerequisites and complete a minimum of twelve (12) semester hours of resident work at Arkansas State University to be eligible to enroll in the teaching internship.

CHECKPOINT 5: EXIT ASSESSMENT CHECK

Students must meet the following minimum performance requirements to graduate from the teacher education program.

1. Successful performance in the teaching internship
2. Maintain a minimum overall GPA of 2.50 (minimum of 3.0 in all course work required for Program of Study)
3. Meet Learning to Teach, Teaching to Learn portfolio requirements
4. Meet Praxis II assessments as specified by the program
5. Meet graduation check sheet requirements

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 2513, Introduction to Secondary Teaching
PSY 3703, Educational Psychology
ELSE 3643, The Exceptional Student in the Regular Classroom
OR for Physical Education majors, PE 4703, Adaptive Physical Education

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
*ED___ 45___3, Methods and Materials for Teaching in the Secondary School

**Course prefix and number are dependent upon the field of study the student is pursuing.*

PROFESSIONAL SEMESTER:

During the professional semester the student will be required to spend sixteen full weeks in a North Central Association approved cooperating school—for which the student receives twelve (12) semester hours of credit.

*TI___ 4826, Teaching Internship in the Secondary School

**Course prefix and number are dependent upon the field of study the student is pursuing.*

TRANSPORTATION FOR FIELD EXPERIENCES

Students are responsible for arranging their own transportation to school field experiences and internship and subsequent expenses incurred.

GRADUATION REQUIREMENT

Teacher education students (BSA-Agriculture Education; BME Music Education; 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).

SPECIAL DEPARTMENTAL NONREFUNDABLE COURSE FEES

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

Department of Psychology and Counseling

Professor Kris Biondolillo, Interim Chair
Professors: *Hall, Jones, McGregor, Pearce, Saarnio, Yanowitz*
Associate Professors: *Davis, Khramtsova, Ochs, Peck*
Assistant Professors: *Butler, Overley, Pimpleton, Peters, Strait, Weatherford, Wilkinson*
Instructors: *Roland*

The Department of Psychology and Counseling is committed to serving the university, the profession, and the public by contributing to excellence in education, high professional standards for service delivery, and consumer advocacy. The department is also committed to research and scholarly activities to expand the academic knowledge base and to improve the quality of professional services.

The primary mission of the department is to teach basic principles underlying psychology as a behavioral science and to prepare graduate-level students to become psychological-counseling professional service providers. At the baccalaureate level, there is a major and a minor in psychology, service courses for Professionally Emerging Teachers and other programs including general education. At the graduate level, the program prepares professional service personnel at the master and specialist degree levels as school, community, and rehabilitation counselors; educational and psychological examiners; and college student personnel specialists. The department also provides advanced educational psychology as a core course for MSE majors as Emerging Professionals.

Major in Psychology

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PSY 1013, Making Connections: Psychological Wellness	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: A PSY course taken to satisfy requirements for a minor and/or a second major cannot also be used to satisfy major credit hour requirements in the psychology major.	**Sem. Hrs.**
PSY 2013, Introduction to Psychology *Required ONLY if not taken as part of the General Education Requirements.*	0-3
PSY 2023, Psychology as a Science and a Profession	3
PSY 3103 **AND** PSY 3101, Quantitative Methods for Behavioral Sciences and Laboratory	4
PSY 3113, Research Design in Psychology	3
PSY 3123 **AND** PSY 3121, Experimental Methods in Psychology and Laboratory	4
Psychology as a Natural Science (select two of the following): PSY 3214, Introduction to Neuroscience PSY 3303, Motivation PSY 4323, Physiological Psychology PSY 4343, Learning Processes PSY 4363, Cognitive Psychology	6
Psychology as a Social Science(select three of the following): *Only two of the three following courses may be used to satisfy the requirements for this category: PSY 3403, PSY 3413 and PSY 3453* PSY 3403, Child Psychology PSY 3413, Adolescent Psychology PSY 3453, Developmental Psychology PSY 3523, Introduction to Social Psychology PSY 3823, History of Psychology PSY 4533, Abnormal Psychology PSY 4543, Personality Development	9
Integrative Psychology (select twelves hours from the following): *PSY courses from Psychology as a Natural Science or Psychology as a Social Science may be substituted for courses in this category.* PSY 3603, Positive Psychology PSY 3613, Cultural Psychology PSY 3703, Educational Psychology PSY 380V, Special Problems PSY 4053, Today's Families PSY 4173, Introduction to Psychological Tests and Measurements PSY 4723, Organizational Psychology PSY 4853, Psychological Seminar	12
Sub-total	**41-44**
Minor or Area of Concentration (as approved by advisor):	**Sem. Hrs.**
Sub-total	**18-24**
Electives:	**Sem. Hrs.**
Electives	**14-23**
Total Required Hours:	**120**

Department of Psychology and Counseling Minors

Minor in Psychology

Required Courses:	Sem. Hrs.
PSY 2013, Introduction to Psychology	3
Psychology elective	3
Upper-level Psychology electives	15
Total Required Hours:	**21**

Department of Teacher Education and Leadership

Professor Ron Towery, Interim Chair
Professors: *Beineke, Lawler, Maness, McBride, J. Nichols, Towery,*
Associate Professors: *Bounds, Bradley, Fillippino, Gao, Grady, Grymes, Henley, Holman, Johnson-Leslie, Keyes, Lamb-Milligan, Meeks, Murphy, Neal, L. Owens, Ross, Singleton, Williams*
Assistant Professors: *Bowser, Choi, Davis, Hux, Kelly, McJunkin, McMurtry, Song, Stewart*
Instructors: *Johnson, Woods*

The mission of the Department of Teacher Education and Leadership 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 and Leadership. 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 years prior to the student's enrollment in either the BSE in Early Childhood Education or the BSE in Middle Level Education will be reviewed for relevance and may not be acceptable to completion of the BSE degree.

Major in Early Childhood Education

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

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections: Education	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *PHSC 1203* ***AND*** *PHSC 1201, Physical Science and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ENG 2003, World Literature to 1660* ***OR*** *ENG 2013, World Literature Since 1660* *HIST 2763, The United States To 1876* ***OR*** *HIST 2773, The United States Since 1876* *HIST 1013, World Civilization To 1660* ***OR*** *HIST 1023, World Civilization Since 1660* *PSY 2013, Introduction to Psychology* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Additional Requirements:	**Sem. Hrs.**
GEOG 2613, Introduction to Geography	3
Physical Education activity course	1
POSC 2103, Introduction to United States Government	3
Sub-total	**7**
Professional Education Requirements: Courses denoted below with an asterisk (*) require admission to the Teacher Education Program.	**Sem. Hrs.**
ECH 2003, Introduction to Educational Technology	3
ECH 2013, Survey of Early Childhood Education	3
ECH 2033, Introduction to Elementary School Teaching: Field Experience I	3
ECH 2023, Child Development	3
*ECH 3013, Children's Literature in the Preschool and Primary Grades	3
*ECH 3043, Program Development and Management for Early Care and Education Centers	3
*ECH 3053, Curriculum Development in Early Childhood Education	3
*ECH 3063, Individualizing Programs for Children and Families	3
*ECH 3073, Children, Families & Community Relationships: Field Experiences II	3
*ECH 3083, Integration of Technology into the Curriculum	3
*ECH 3004, Instructional Models, Strategies and Assessments	4
*ECH 4012, Organizing and Managing the Learning Environment	2
*ECH 4013, Field Experiences III. Pre-Internship	3
*ECH 4023, Methods and Materials of Language Arts and Social Studies	3
*ECH 4043, Methods and Materials of Math and Science	3
*ECH 4063, Social Foundations of Education	3
*ECH 4086, Teaching Internship in Early Childhood Education - Kindergarten	6
*ECH 4096, Teaching Internship in the Elementary School - Primary Grades 1-3	6
ELSE 3643, The Exceptional Student in the Regular Classroom	3
*RDNG 3203, Foundations of Reading	3

Major in Early Childhood Education (cont.)

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

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

*RDNG 4403, Early Literacy: Theory and Practice	3
Sub-total	**69**
Specialty Area Requirements:	**Sem. Hrs.**
GSP 3203, Science in the Elementary Classroom	3
MATH 2113, Mathematics for School Teachers I	3
MATH 2123, Mathematics for School Teachers II	3
Sub-total	**9**
Total Required Hours:	**123**

Licensure Requirement (not a program requirement):	**Sem. Hrs.**
HIST 3083, History of Arkansas (not counted in total required hours for degree program)	**3**

Major in Mid-Level Education

Bachelor of Science in Education
(Grades 4 - 8 License)
Specialty of Math and Science (This is not an emphasis.)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections: Education	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *PHSC 1203* ***AND*** *PHSC 1201, Physical Science and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ENG 2003, World Literature to 1660* ***OR*** *ENG 2013, World Literature Since 1660* *HIST 2763, The United States To 1876* ***OR*** *HIST 2773, The United States Since 1876* *HIST 1013, World Civilization To 1660* ***OR*** *HIST 1023, World Civilization Since 1660* *PSY 2013, Introduction to Psychology* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Associate of Arts in Teaching Equivalency Requirements:	**Sem. Hrs.**
GEOG 2613, Introduction to Geography	3
POSC 2103, Introduction to United States Government	3
Sub-total	**6**
Professional Education Requirements: Courses denoted below with an asterisk (*) require admission to the Teacher Education Program.	**Sem. Hrs.**
ELSE 3643, The Exceptional Student in the Regular Classroom	3
MLED 2003, Introduction to Educational Technology	3
MLED 2033, Introduction to Teaching	3
*MLED 3003, Nature and Needs of the Mid-Level Learner	3
*MLED 3083, Integration of Technology into the Curriculum	3
*MLED 3013, Literacy Through Literature for the Middle Grades	3
*MLED 3004, Instructional Models, Strategies and Assessment	4
*MLED 3002, Theories and Strategies of Middle Grades Classroom Management	2
*MLED 3073, Key Issues of Teaching and Learning in Middle Grades	3
*MLED 4013, Methods and Materials for Teaching Language Arts and Social Studies in the Middle Grades	3
*MLED 4023, Methods and Materials for Teaching Mathematics and Science in the Middle Grades	3
*MLED 4033, Curriculum Applications in the Middle Grades: Field II	3
*MLED 4063, Social Foundations of Education	3
*MLED 4106, Teaching Internship Grades 4-5	6
*MLED 4116, Teaching Internship Grades 6-8	6
*RDNG 4343, Reading in the Content Areas: Middle and Secondary Schools	3
Sub-total	**54**

Major in Mid-Level Education (cont.)

Bachelor of Science in Education
(Grades 4 - 8 License)
Specialty of Math and Science (This is not an emphasis.)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

Additional Requirements:	**Sem. Hrs.**
Select one of the following not previously taken for General Education requirements: ENG 2003, World Literature to 1660 ENG 2013, World Literature Since 1660 ENG 3323, American Literature To 1865 ENG 3363, American Literature Since 1865	3
GEOL 1003 **AND** 1001, Environmental Geology and Laboratory **OR** PHYS 1103 **AND** 1101, Space Science and Laboratory **OR** GEOL 3723, Physical Geography	3-4
GSP 3203, Science for Teachers	3
MATH 2113, Mathematics for School Teachers I	3
MATH 2123, Mathematics for School Teachers II	3
MATH 3133, Mathematics for School Teachers III	3
Sub-total	**18-19**
Specialty Area (Math and Science):	**Sem. Hrs.**
MATH 3003, Geometry for the Middle School Teacher	3
Select one of the following: MATH 1054, Precalculus Mathematics MATH 2194, Survey of Calculus MATH 2204, Calculus I STAT 3233, Applied Statistics I Other electives as approved by advisor	3-4
Select one of the following combinations: BIO 1303 **AND** 1301, Biology of Animals and Laboratory BIO 1503 **AND** 1501, Biology of Plants and Laboratory CHEM 1003, Introduction to Chemistry Other electives as approved by advisor	3-4
Sub-total	**9-11**
Total Required Hours:	**125-128**

Licensure Requirement (not a program requirement):	**Sem. Hrs.**
HIST 3083, History of Arkansas (not counted in total required hours for degree program)	**3**

Major in Mid-Level Education

Bachelor of Science in Education
(Grades 4 - 8 License)
Specialty of English/Language Arts and Social Studies (This is not an emphasis.)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections: Education	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *PHSC 1203* ***AND*** *PHSC 1201, Physical Science and Laboratory* *BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory* *ENG 2003, World Literature to 1660* ***OR*** *ENG 2013, World Literature Since 1660* *HIST 2763, The United States To 1876* ***OR*** *HIST 2773, The United States Since 1876* *HIST 1013, World Civilization To 1660* ***OR*** *HIST 1023, World Civilization Since 1660* *PSY 2013, Introduction to Psychology* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Associate of Arts in Teaching Equivalency Requirements:	**Sem. Hrs.**
GEOG 2613, Introduction to Geography	3
POSC 2103, Introduction to United States Government	3
ENG 3323, American Literature To 1865 **OR** ENG 3363, American Literature Since 1865	3
Sub-total	**9**
Professional Education Requirements: Courses denoted below with an asterisk (*) require admission to the Teacher Education Program.	**Sem. Hrs.**
ELSE 3643, The Exceptional Student in the Regular Classroom	3
MLED 2003, Introduction to Educational Technology	3
MLED 2033, Introduction to Teaching	3
*MLED 3003, Nature and Needs of the Mid-Level Learner	3
*MLED 3083, Integration of Technology into the Curriculum	3
*MLED 3013, Literacy Through Literature for the Middle Grades	3
MLED 3004, Instructional Models, Strategies and Assessment	4
MLED 3002, Theories and Strategies of Middle Grades Classroom Management	2
*MLED 3073, Key Issues of Teaching and Learning in Middle Grades	3
*MLED 4013, Methods and Materials for Teaching Language Arts and Social Studies in the Middle Grades	3
*MLED 4023, Methods and Materials for Teaching Mathematics and Science in the Middle Grades	3
*MLED 4033, Curriculum Applications in the Middle Grades: Field II	3
*MLED 4063, Social Foundations of Education	3
*MLED 4106, Teaching Internship Grades 4-5	6
*MLED 4116, Teaching Internship Grades 6-8	6
*RDNG 4343, Reading in the Content Areas: Middle and Secondary Schools	3
Sub-total	**54**

Major in Mid-Level Education (cont.)

Bachelor of Science in Education
(Grades 4 - 8 License)
Specialty of English/Language Arts and Social Studies (This is not an emphasis.)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

Additional Requirements:	Sem. Hrs.
Select one of the following not previously taken for General Education requirements: ENG 2003, World Literature to 1660 ENG 2013, World Literature Since 1660 ENG 3323, American Literature To 1865 ENG 3363, American Literature Since 1865	3
GEOL 1003 **AND** 1001, Environmental Geology and Laboratory **OR** PHYS 1103 **AND** 1101, Space Science and Laboratory **OR** GEOL 3723, Physical Geography	3-4
GSP 3203, Science for Teachers	3
MATH 2113, Mathematics for School Teachers I	3
MATH 2123, Mathematics for School Teachers II	3
MATH 3133, Mathematics for School Teachers III	3
Sub-total	**18-19**
Specialty Area (English/Language Arts and Social Studies):	**Sem. Hrs.**
Select one of the following: ENG 3003, Advanced Composition ENG 3583, Literature for Adolescents ENG 4043, Theory in the Teaching of Composition ENG 4063, Comparative Modern Grammars Other electives as approved by advisor	3
Select two of the following: HIST 1013, World Civilization To 1660 **OR** HIST 1023 World Civilization Since 1660 HIST 2763, The United States To 1876 **OR** HIST 2773, The United States Since 1876 Other electives as approved by advisor	6
Sub-total	**9**
Total Required Hours:	**128-129**

Licensure Requirement (not a program requirement):	Sem. Hrs.
HIST 3083, History of Arkansas (not counted in total required hours for degree program)	**3**

Department of Health, Physical Education, and Sport Sciences

Professor Paul Finnicum, Interim Chair
Professors: *Adams, Dean, Jones, Stillwell*
Associate Professors: *Bryant, Church, LaVetter, Mooneyhan*
Assistant Professors: *Espinoza, Olushola, Perkey, Thrasher, Wheeler*
Instructors: *Adams, Hilson, Huckabee, Sibrava, Tilley*

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

The Arkansas State University Athletic Training Program (ATP) 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 Board of Certification (BOC) for Athletic Trainers and embark on a career as a certified athletic trainer (ATC®). The ATP 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.

ATHLETIC TRAINING ADMISSION REQUIREMENTS

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

1. Declared major in Bachelor of Science in Athletic Training.
2. Minimum of 30 semester hours.
3. Minimum cumulative GPA of 2.75, and recommended GPA of 3.0 on athletic training prerequisites.
4. 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 2883.
5. Completion of one semester of directed clinical observation with 50 hours being accumulated under the supervision of a certified athletic trainer and completion of all assigned directed observer proficiencies.
6. Completion of personal interview with program selection committee upon request.
7. Submission of all program application forms to program director.

The number of appointments to the program will vary from year to year depending on space availability, approximately 20 per class. Program application materials must be received by April 1 of each year in order to be considered for Fall entry into the ATP. Candidates will be notified of their admission status after June 1 of each academic year.

Technical standards for admission to the Athletic Training Program can be found on the program's website at http://www.astate.edu/college/education/departments/health-physical-educations-and-sport-sciences/.

Prior to taking first clinical experience course the student must hold:

1. Professional liability insurance (minimum $2,000,000/4,000,000 coverage)
2. Acceptable immunization status including TB screening
3. Completed physical examination form

Major in Athletic Training

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
HPES 1013, Introduction to HPESS (Making Connections)	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2103* ***AND*** *2101, Microbiology for Nursing and Allied Health Professionals and Laboratory* *PSY 2013, Introduction to Psychology* *SOC 2213, Introduction to Sociology* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
AT 2301, Clinical Instruction in Athletic Training I	1
AT 2311, Clinical Experience in Athletic Training I	1
AT 2401, Clinical Instruction in Athletic Training II	1
AT 2411, Clinical Experience in Athletic Training II	1
AT 2733 **AND** AT 2731, Care and Prevention of Athletic Injuries and Laboratory	4
AT 2883, Foundations of Athletic Training	3
AT 3301, Clinical Instruction in Athletic Training III	1
AT 3311, Clinical Experience in Athletic Training III	1
AT 3401, Clinical Instruction in Athletic Training IV	1
AT 3411, Clinical Experience in Athletic Training IV	1
AT 3733 **AND** AT 3731, Advanced Assessment of Athletic Injuries and Laboratory	4
AT 3743 **AND** AT 3741, Therapeutic Exercise and Laboratory	4
AT 3833 **AND** AT 3831, Therapeutic Modalities and Laboratory	4
AT 4301, Clinical Instruction in Athletic Training V	1
AT 4311, Clinical Experience in Athletic Training V	1
AT 4401, Clinical Instruction in Athletic Training VI	1
AT 4411, Clinical Experience in Athletic Training VI	1
AT 4723, Athletic Training Administration	3
AT 4743, Athletic Training Seminar	3
Sub-total	**37**

Major in Athletic Training (cont.)

Bachelor of Science

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

Required Support Courses:	**Sem. Hrs.**
BIO 2203 A**ND** 2201, Human Anatomy and Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
ES 4693, Techniques of Strength Training and Conditioning	3
ES 3553, Basic Physiology of Activity	3
ES 4763, Kinesiology	3
ES 3543, Human Anatomy and Anatomical Fundamentals of Motion	3
ES 3633, Nutrition for Health, Sport, and Exercise	3
ES 3743, Research and Statistical Methods in Exercise Science	3
HLTH 2513, Principles of Personal Health	3
HP 2013, Medical Terminology	3
HP 3003, General Gross Anatomy	3
NRS 3023, Interdisciplinary Clinical Pathophysiology	3
PE 1002, Concepts of Fitness	2
PHYS 2133 Survey of Physics for the Health Professions **OR** PHYS 2054, General Physics I	3-4
Sub-total	**43-44**
Electives:	**Sem. Hrs.**
Electives	**1-2**
Total Required Hours:	**120**

Major in Exercise Science

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
HPES 1013, Introduction to HPESS (Making Connections)	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following (Grade of "C" or better required):** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013, General Chemistry I* ***AND*** *CHEM 1011, General Chemistry I Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy/Physiology II and Laboratory	4
ES 3543, Human Anatomy and Anatomical Fundamentals of Motion	3
ES 3553, Basic Physiology of Activity	3
ES 3623, Techniques of Physiological Fitness Assessment	3
ES 3633, Nutrition for Health, Sport and Exercise	3
ES 3653, Techniques of Aerobic Conditioning	3
ES 3713, Cardiovascular Physiology	3
ES 3743, Research and Statistical Methods in Exercise Science	3
ES 4673, Exercise Prescription for Special Populations	3
ES 4683, Exercise Prescription and Fitness Programming	3
ES 4693, Techniques of Strength Training and Conditioning	3
ES 4763, Kinesiology	3
ES 4813, Applied Motor Learning	3
ES 4843, Practicum/Pre-Internship	3
HLTH 2513, Principles of Personal Health	3
HLTH 2523, First Aid and Safety	3
HLTH 4543, Drug Use and Abuse	3
HLTH 4633, Health Promotion Assessment Planning	3
HLTH 4643, Health Promotion Implementation and Evaluation	3
HPES 1883, Foundations of HPESS *Must be completed ONLY if HPES 1013 is not completed as the First Year Making Connections Course.*	0-3
HPES 4896, Internship in HPESS **OR** HPES 4863, Internship in HPESS I **AND** HPES 4893, Internship in HPESS II	6
PE 1002, Concepts of Fitness	2
PE 4843, Philosophy and Ethics in Sport	3
Sub-total	**73-76**
Electives:	**Sem. Hrs.**
Electives	**6-9**
Total Required Hours:	**120**

Major in Health Promotion

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
HPES 1013, Introduction to HPESS (Making Connections)	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
CIT 1503, Microcomputer Applications	3
ES 3543, Human Anatomy and Anatomic Fundamentals of Motion	3
ES 3553, Basic Physiology of Activity	3
ES 3623, Techniques of Physiological Fitness Assessment	3
ES 3653, Techniques of Aerobic Conditioning	3
ES 4693, Techniques of Strength Training and Conditioning	3
HLTH 2513, Principles of Personal Health	3
HLTH 2523, First Aid and Safety	3
HLTH 3523, Public and Community Health	3
HLTH 3533, Strategies for Teaching Health Education	3
HLTH 3563, Human Sexuality	3
HLTH 4513, Consumer Health	3
HLTH 4523, Current Issues in Health	3
HLTH 4543, Drug Use and Abuse	3
HLTH 4633, Health Promotion Assessment and Planning	3
HLTH 4643, Health Promotion Implementation and Evaluation	3
HPES 1883, Foundations of HPESS *Must be completed ONLY if HPES 1013 is not completed as the First Year Making Connections Course.*	0-3
HPES 4896, Internship in HPESS **OR** HPES 4863, Internship in HPESS I **AND** HPES 4893, Internship in HPESS II	6
HP 2013, Medical Terminology	3
GCOM 3673, Desktop Publishing & Publication Design	3
NS 2203, Basic Human Nutrition	3
NRS 3353, Aging and the Older Adult **OR** SOC 4353, Sociology of Aging	3
PE 1002, Concepts of Fitness	2
Sub-total	**76-79**
Electives:	**Sem. Hrs.**
Electives	**3-6**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Physical Education

Bachelor of Science in Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
HPES 1013, Introduction to HPESS (Making Connections)	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: A GPA of 2.75 or better required for all Major Requirements. Please consult with advisor for additional information.	**Sem. Hrs.**
ES 3543, Human Anatomy and Anatomic Fundamentals of Motion	3
ES 3553, Basic Physiology of Activity	3
ES 4763, Kinesiology	3
HLTH 2513, Principles of Personal Health	3
HLTH 2523, First Aid and Safety	3
HLTH 3533, Strategies for Teaching Health Education	3
HPES 1883, Foundations of HPESS *Must be completed ONLY if HPES 1013 is not completed as the First Year Making Connections Course.*	0-3
PE 1002, Concepts of Fitness	2
PE 3802, Physical Education for Teachers of Young Children	2
PE 3822, Theory and Practice of Teaching Rhythmical Activities	2
PE 3832, Theory and Practice of Teaching Fitness Concepts	2
PE 3842, Theory and Practice of Teaching Leisure Sports	2
PE 3862, Theory and Practice of Teaching Racquet Sports	2
PE 3892, Theory and Practice of Teaching Team Sports	2
PE 4663, Motor Skills Development for Children	3
PE 4703, Adaptive Physical Education	3
PE 4753, The Physical Education Curriculum	3
PE 4783, Organization and Administration of Physical Education	3
PE 4793, Evaluation in Physical Education	3
PE 1311, Beginning Swimming **OR** PE 2311, Intermediate Swimming	1
PE 1411, Track and Field	1
PE 1511, Gymnastics	1
Physical Education Electives	**0-3**
Sub-total	**53**

Major in Physical Education

Bachelor of Science in Education

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

Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Instructional Design	5
*EDPE 4583, Methods and Materials for Teaching Physical Education in the Secondary School	3
*SCED 4713, Educational Measurement with Computer Applications	3
*TIPE 4826, Teaching Internship in the Secondary School	12
Sub-total	**29**
Total Required Hours:	**120**

Teaching Endorsements

Coaching

Required in Arkansas for coaching football, basketball, and track.

Requirements:	Sem. Hrs.
ES 3553, Basic Physiology of Activity	3
ES 4693, Techniques of Strength Training and Conditioning	3
PE 3813, Concepts of Athletic Training	3
PE 3872, Rules and Officiating	2
PE 4743, Legal Issues in Sports	3
PE 4873, Organization and Administration of Interscholastic Athletics **OR** PE 4783, Organization and Administration of Physical Education	**3**
Select two of the following: PE 4822, Theory and Practice of Coaching Football PE 4832, Theory and Practice of Coaching Basketball PE 4842, Theory and Practice of Coaching Track PE 4852, Theory and Practice of Coaching Baseball PE 4872, Theory and Practice of Coaching Volleyball PE 4882, Theory and Practice of Coaching Soccer PE 480V, SPTW III: Basketball Coaching & Conditioning PE 480V, SPTW: Coaching Young Athlete	4
Total Required Hours:	**21**

Driver Education

Requirements:	Sem. Hrs.
DRED 4263, Basic Driver Education	3
DRED 4273, Advanced Driver Education	3
HLTH 2523, First Aid and Safety	3
Total Required Hours:	**9**

Major in Sport Management

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
HPES 1013, Introduction to HPESS (Making Connections)	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements	**Sem. Hrs.**
COMS 3203, Business & Professional Communication	3
CIT 1503, Microcomputer Applications	3
ES 3743, Research and Statistics in Exercise Science	3
HPES 1883, Foundations of HPESS *Must be completed ONLY if HPES 1013 is not completed as the First Year Making Connections Course.*	0-3
HPES 4896, Internship in HPESS **OR** HPES 4863, Internship in HPESS I **AND** HPES 3893, Internship in HPESS II	6
PE 1002, Concepts of Fitness	2
PE 3853, Sports Promotion and Sales Management	3
PE 3863, Economic and Financial Mgmt for Sport Organizations	3
PE 3873, Facility and Event Management	3
PE 3893, Sports in Society	3
PE 4743, Legal Issues in Sport	3
PE 4773, Organization and Management of Sports Programs	3
PE 4843, Philosophy and Ethics in Sports	3
PE 4853, Applied Psychology of Sports and Exercise	3
PE 4873, Organization and Administration of Interscholastic Athletes	3
PR 3003, Principles of Public Relations	3
Sub-total	**47-50**
Minor (select one of the following): Refer to appropriate college for information regarding specific minors.	**Sem. Hrs.**
Creative Media Production	19
General Business	21
Marketing	18
Multimedia Journalism	19
Sub-total	**18-21**
Electives:	**Sem. Hrs.**
Electives	**11-17**
Total Required Hours:	**120**

College of Engineering

Associate Professor Paul Mixon, Interim Dean

One of the hallmarks of modern times is the acceptance of accelerating change, both in technological products and in educational philosophies. Few college graduates 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. Also, each course in the Engineering Core Curriculum must be completed with a grade of "C" or better. 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 major requirements or (2.) 2.5 or greater grade point average in the 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 4003-6) or Honors Senior Thesis (HNRS 4893-6). Either course would be valuable in preparation for graduate studies.

GENERAL EDUCATION CURRICULUM FOR COLLEGE OF ENGINEERING BACCALAUREATE DEGREES

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

General Education Requirements: A course may be counted in satisfaction of only one area requirement. With the exception of English courses (ENG), no more than two selections may have the same prefix. A science course and its laboratory will count as a single selection.	**Sem. Hrs.**
Communication ENG 1003, Composition I ENG 1013, Composition II COMS 1203, Oral Communication *(Required Departmental Gen. Ed. Option)*	9
Mathematics MATH 2204, Calculus I	4
Science CHEM 1013 **AND** CHEM 1011, General Chemistry I and Laboratory PHYS 2034, University Physics I	8
Arts and Humanities **Fine Arts (select one of the following):** ART 2503, Fine Arts - Visual MUS 2503, Fine Arts - Musical THEA 2503, Fine Arts - Theatre **Humanities (select one of the following):** ENG 2003, World Literature to 1660 ENG 2013, World Literature Since 1660 PHIL 1103, Introduction to Philosophy	6
Social Sciences *The State Minimum General Education Core allows engineering students to substitute higher-level math and/or science courses as part of this requirement.* **Select one of the following:** HIST 2763, The United States To 1876 HIST 2773, The United States Since 1876 POSC 2103, Introduction to United States Government **Substitution of Higher Math (student must complete both):** MATH 2214, Calculus II MATH 3254, Calculus III	11
Total:	**38**

CORE AND ADDITIONAL SUPPORT COURSES FOR COLLEGE OF ENGINEERING BACCALAUREATE DEGREES

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

College of Engineering Core Courses: Grade of "C" or better required.	**Sem. Hrs.**
ENGR 1402, Concepts of Engineering	2
ENGR 1412, Software Applications for Engineers	2
ENGR 2401, Applied Engineering Statistics	1
ENGR 2403, Statics	3
ENGR 2413 **AND** ENGR 2411, Mechanics of Materials and Laboratory	4
ENGR 2423 **AND** ENGR 2421, Electric Circuits I and Laboratory	4
ENGR 3423, Dynamics	3
ENGR 3433, Engineering Economics	3
ENGR 3443, Engineering Thermodynamics I	3
ENGR 4401, Senior Seminar	1
ENGR 4453, Numerical Methods for Engineers	3
ENGR 4463, Senior Design I	3
ENGR 4482, Senior Design II	2
Total:	**34**

Additional Support Courses: The additional support courses listed below are required for all engineering baccalaureate degrees.	**Sem. Hrs.**
MATH 4403, Differential Equations	3
Science Elective	4
Total:	**7**

Engineering Program

Professors: *R. Engelken*
Associate Professors: *B. Edgar, A. Elsayed, S. Haran, B. Kemp, S. Kher, P. Mixon, P. Sherman*
Assistant Professors: *T. Bhatt, Z. Hossain, Y. Hwang, K. Jeong, I. Seok*
Instructors: *J. Stewart, L. Walker*

The Engineering Program curriculum is structured to give all students a working knowledge of the engineering sciences and a progressive level of understanding and participation in the overall design process. The Engineering Program offers a Bachelor of Science in Engineering (BSE) degree with professional concentration areas in civil, electrical, and mechanical engineering; or an individually planned program that may combine or cut across traditional fields of engineering and applied sciences.

The BSE degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org/.

PROGRAM EDUCATIONAL OBJECTIVES

It is the goal of the Arkansas State University Bachelor of Science in Engineering Program to provide its students with the knowledge, skills, and perspectives that will prepare its graduates to accomplish the following educational objectives:

1. Graduates have successfully advanced in engineering practice as evidenced by contributions to their employers and the greater engineering community.
2. Graduates have pursued graduate degrees or completed professional development activities to advance their knowledge base in their field.
3. Graduates have made a broader contribution by providing an engineering perspective to the challenges and opportunities of society.

The desired outcomes or skills possessed by the engineering graduates are listed below:

1. A good understanding of mathematics, science, and engineering, and an ability to apply this knowledge in engineering practice;
2. An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data;
3. An ability to function on multi-disciplinary teams;
4. An ability to identify, formulate, and solve engineering problems;
5. An understanding of professional and ethical responsibility;
6. An ability to communicate effectively, both orally and in writing;
7. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
8. A recognition of the need for, and an ability to engage in, life-long learning;
9. A knowledge of contemporary issues;
10. An ability to use the techniques, skills, and modern engineering tools necessary for entry-level practice in their area of concentration; and
11. An ability to analyze and design a system, component, or process to meet desired needs in their area of concentration within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

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

Major in Engineering

Bachelor of Science in Engineering

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENGR 1402, Concepts of Engineering (See College of Engineering Core Courses)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for College of Engineering	**38**
Additional Support Courses:	**Sem. Hrs.**
Refer to Additional Support Courses for College of Engineering	**7**
College of Engineering Core Courses:	**Sem. Hrs.**
Refer to College of Engineering Core Courses	**34**
Areas of Concentration: In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Science in Engineering requires that one of the two following conditions be met: 1. "C" or better in each course in the 46-hour concentration area; **OR** 2. 2.5 (or greater) grade point average in the 46-hour concentration areas listed below.	**Sem. Hrs.**
Students must select an area of concentration from one of the three following areas (see below for detailed area of concentration course lists): Civil Engineering Mechanical Engineering Electrical Engineering	**46**
Total Required Hours:	**125**

Area of Concentration: Civil Engineering

Civil Engineering:	**Sem. Hrs.**
BIOL 1063, People and the Environment	3
CE 2202, Civil Engineering Presentations	2
CE 2223, Plane Surveying	3
CE 3213, Structural Analysis I	3
CE 3223, Civil Engineering Materials	3
CE 3233, Structural Analysis II **OR** CE 4263, Water and Waste Treatment	3
CE 3253, Engineering Hydrology	3
CE 3263, Introduction to Environmental Engineering	3
CE 3273, Water and Waste Systems	3
CE 4203, Transportation Engineering I	3
CE 4233, Foundation Engineering	3
CE 4243, Reinforced Concrete Design	3
CE 4253, Soil Mechanics	3
CE 4251, Soil Mechanics Laboratory	1
CE 4283, Structural Steel Design	3
ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3
Total Required Hours:	**46**

Area of Concentration: Electrical Engineering

Electrical Engineering: Electives denoted with an asterisk (*) may be selected from any courses within the designated elective group; subject to a program advisor's approval. They must make a rational contribution to the student's personal and professional education goals.	**Sem. Hrs.**
CHEM 1023, General Chemistry II	3
CS 2114, Structured Programming	4
EE 3401, Electronics I Laboratory	1
EE 3403, Electronics I	3
EE 3313, Electric Circuits II	3
EE 3333, Digital Electronics I	3
EE 3343, Engineering Fields and Waves I	3
EE 3353, Continuous and Analog Systems	3
EE 3383, Principles and Practices in Electrical Engineering	3
EE 4323, Electrical Machinery **OR** EE 4353, Power Systems	3
EE 4373, Electronics II **OR** EE 3363, Semiconductor Matl and Devices I	3
EE 4773, Intermediate Electrical Engineering Laboratory **OR** EE 3303, Semiconductor and Optoelectronic Materials and Devices I Laboratory	3
EE 4383, Digital Electronics II **OR** EE 4313, Control Systems	3
ENGR 4413, Engineering Problem Solving	3
*Engineering Electives	2
*Approved Electives	3
Total Required Hours:	**46**

Area of Concentration: Mechanical Engineering

Mechanical Engineering: Electives denoted with an asterisk (*) may be selected from any courses within the designated elective group; subject to a program advisor's approval. They must make a rational contribution to the student's personal and professional education goals.	**Sem. Hrs.**
CHEM 1023, General Chemistry II	3
ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3
ME 2502, Solid Modeling for Mechanical Engineers	2
ME 3504, Process Monitoring and Control	4
ME 3513, Mechanical Vibrations	3
ME 3533, Engineering Thermodynamics II	3
ME 4503, Fluid and Thermal Energy Systems	3
ME 4543, Machine Design	3
ME 4553, Heat Transfer	3
ME 4563, Introduction to Manufacturing Processes	3
ME 4573, Mechanical System Design	3
*Mechanical Engineering Electives	9
*Approved Electives	3
Total Required Hours:	**46**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Civil Engineering Program

Associate Professors: *A. Elsayed*
Assistant Professors: *Z. Hossain, Y. Hwang*
Instructors: *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 focus in transportation, water resources, structural, and geotechnical areas. Other traditional areas such as materials and environmental are covered in the curriculum, as well as a strong general education component. The faculty is involved in research, solving engineering problems in the community, and consulting work. These experiences are brought into the classroom so that students 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 is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org/.

PROGRAM EDUCATIONAL OBJECTIVES

The Civil Engineering Program educational objectives are:

1. Graduates have successfully advanced in civil engineering practice as evidenced by their achievements and contributions to their employers and the greater engineering community.
2. Graduates have pursued graduate degrees or completed professional development activities in continuing to advance their knowledge base in civil engineering or related professional fields.
3. Graduates are actively working to improve their community and society in general by utilizing and sharing their engineering expertise.

The Civil Engineering Program's outcomes define the knowledge, skills, attitudes, and behaviors that program graduates are expected to have by the time of graduation. Graduates of the Civil Engineering Program will have:

1. A good understanding of mathematics, science, and engineering, and an ability to apply this knowledge in engineering practice;
2. An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data;
3. An ability to function on multidisciplinary teams;
4. An ability to identify, formulate, and solve engineering problems;
5. An understanding of professional and ethical responsibility;
6. An ability to communicate effectively, both orally and in writing;
7. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
8. A recognition of the need for, and an ability to engage in, life-long learning;

9. A knowledge of contemporary issues;
10. An ability to use the techniques, skills, and modern engineering tools necessary for entry-level practice in civil engineering; and
11. An ability to analyze and design a system, component, or process to meet desired needs in civil engineering within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

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 Civil Engineering

Bachelor of Science in Civil Engineering

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENGR 1402, Concepts of Engineering (See College of Engineering Core Courses)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for College of Engineering	**38**
Additional Support Courses:	**Sem. Hrs.**
Refer to Additional Support Courses for College of Engineering	**7**
College of Engineering Core Courses:	**Sem. Hrs.**
Refer to College of Engineering Core Courses	**34**
Major Requirements: In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Science in Civil Engineering requires that one of the two following conditions be met: 1. "C" or better in each course in the 49-hour major courses; **OR** 2. 2.5 (or greater) grade point average in the 49-hour major courses listed below.	**Sem. Hrs.**
BIOL 1063, People and the Environment	3
CE 2202, Civil Engineering Presentations	2
CE 2223, Plane Surveying	3
CE 3213, Structural Analysis I	3
CE 3223, Civil Engineering Materials	3
CE 3233, Structural Analysis II **OR** CE 4263, Water and Waste Treatment	3
CE 3253, Engineering Hydrology	3
CE 3263, Introduction to Environmental Engineering	3
CE 3273, Water and Waste Systems	3
CE 4203, Transportation Engineering I	3
CE 4223, Transportation Engineering II	3
CE 4233, Foundation Engineering	3
CE 4243, Reinforced Concrete Design	3
CE 4253, Soil Mechanics	3
CE 4251, Soil Mechanics Laboratory	1
CE 4283, Structural Steel Design	3
ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3
Sub-total	**49**
Total Required Hours:	**128**

Electrical Engineering Program

Professors: *R. Engelken*
Associate Professors: *B. Kemp, S. Kher, P. Mixon*
Assistant Professors: *T. Bhatt*

Electrical engineering is a broad field that cuts across many other fields that utilize electrical energy; electrical/electronic 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 (BSE) degree program, and in the Bachelor of Science in Electrical Engineering (BSEE) degree program. Student knowledge, capabilities, and professionalism are also enhanced through involvement in the ASU Student Branch of the Institute of Electrical and Electronics Engineers, student research and industrial internship opportunities, seminars, and a variety of other service, social, and professional activities.

ASU electrical engineering graduates 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 is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org/.

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 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. Graduates have successfully advanced in electrical/computer engineering or related relevant practice as evidenced by contributions to their employers and the greater professional community.
2. Graduates have pursued graduate degrees or completed professional development activities in continuing to advance their knowledge base in electrical engineering or related professional fields.
3. Graduates have made a broader contribution by providing an engineering or otherwise technical or objective perspective to the challenges and opportunities of society.

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. Graduates of the Electrical Engineering Program will have:

1. A good understanding of mathematics, science, and engineering, and an ability to apply this knowledge in engineering practice;
2. An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data;
3. An ability to function on multi-disciplinary teams;
4. An ability to identify, formulate, and solve engineering problems;
5. An understanding of professional and ethical responsibility;
6. An ability to communicate effectively, both orally and in writing;
7. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
8. A recognition of the need for, and an ability to engage in, life-long learning;
9. A knowledge of contemporary issues;
10. An ability to use the techniques, skills, and modern engineering tools necessary for entry-level practice in electrical engineering; and
11. An ability to analyze and design a system, component, or process to meet desired needs in electrical engineering within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Major in Electrical Engineering

Bachelor of Science in Electrical Engineering

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENGR 1402, Concepts of Engineering (See College of Engineering Core Courses)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for College of Engineering	**38**
Additional Support Courses:	**Sem. Hrs.**
Refer to Additional Support Courses for College of Engineering	**7**
College of Engineering Core Courses:	**Sem. Hrs.**
Refer to College of Engineering Core Courses	**34**
Major Requirements: Electives denoted with an asterisk (*) may be selected from any courses within the designated elective group; subject to a program advisor's approval. They must make a rational contribution to the student's personal and professional education goals. In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Science in Electrical Engineering requires that one of the two following conditions be met: 1. "C" or better in each course in the 49-hour major courses; **OR** 2. 2.5 (or greater) grade point average in the 49-hour major courses listed below.	**Sem. Hrs.**
CHEM 1023, General Chemistry II	3
CS 2114, Structured Programming	4
EE 3401, Electronics I Laboratory	1
EE 3403, Electronics I	3
EE 3313, Electric Circuits II	3
EE 3333, Digital Electronics I	3
EE 3343, Engineering Fields and Waves I	3
EE 3353, Continuous and Analog Systems	3
EE 3383, Principles and Practices in Electrical Engineering	3
EE 4323, Electrical Machinery **OR** EE 4353, Power Systems	3
EE 4333, Communications Theory	3
EE 4373, Electronics II **OR** EE 3363, Semiconductor Materials and Devices I	3
EE 4773, Intermediate EE Lab **OR** EE 3303, Semiconductor and Optoelectronics Matl and Devices I Lab	3
EE 4383, Digital Electronics II **OR** EE 4313, Control Systems	3
ENGR 4413, Engineering Problem Solving	3
*Engineering Electives	2
*Approved Electives	3
Sub-total	**49**
Total Required Hours:	**128**

Mechanical Engineering Program

Associate Professors: *B. Edgar, S. Haran, P. Sherman*
Assistant Professors: *K. Jeong, I. Seok*
Instructors: *L. Walker*

The practice of Mechanical Engineering requires the ability to apply the principles of engineering, basic sciences, and mathematics (including multivariate calculus and differential equations) to model, analyze, design, and realize physical systems, components or processes. Mechanical Engineers must be able to work professionally in both thermal and mechanical systems areas as required in fields such as aerospace and automotive design, biomedical and biomechanical processes, engineering materials research, HVAC design, machinery design, manufacturing processes, power generation, and robotics.

The mission of the Mechanical Engineering Program is to provide quality educational opportunities, promote scholastic achievement, and to encourage creative as well as quantitative analytical methods for problem solving. This is accomplished through:

- effective classroom and laboratory instruction that stress sound engineering fundamentals;
- multiple thermal and mechanical design experiences in the laboratory, classroom, and through design competitions; and
- opportunities to participate in research, industrial internships, and in professional engineering societies through student membership.

The Mechanical Engineering Program offers a Bachelor of Science in Mechanical Engineering (BSME) which provides the educational foundation for graduates to pursue a wide range of career opportunities including service as a practicing engineer and pursuit of professional licensure; graduate study in engineering or other fields; or entrance into a professional school such as medicine or law.

The Mechanical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org/.

PROGRAM EDUCATIONAL OBJECTIVES

The educational objectives for the Mechanical Engineering Program are:

1. Graduates have successfully advanced in mechanical engineering practice as evidenced by their achievements and contributions to their employers and the greater engineering community.
2. Graduates have pursued graduate degrees or completed professional development activities in continuing to advance their knowledge base in the mechanical engineering or related professional fields.
3. Graduates have made a broader contribution to local and national economic development by providing a mechanical engineering perspective to the challenges and opportunities of society.

The Mechanical 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. Graduates of the Mechanical Engineering Program will have:

1. A good understanding of mathematics, science, and engineering, and an ability to apply this knowledge in engineering practice;
2. An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data;
3. An ability to function on multidisciplinary teams;
4. An ability to identify, formulate, and solve engineering problems;
5. An understanding of professional and ethical responsibility;
6. An ability to communicate effectively, both orally and in writing;
7. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;

8. A recognition of the need for, and an ability to engage in, life-long learning;
9. A knowledge of contemporary issues;
10. An ability to use the techniques, skills, and modern engineering tools necessary for entry-level practice in mechanical engineering; and
11. An ability to analyze and design a system, component, or process to meet desired needs in mechanical engineering within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Major in Mechanical Engineering

Bachelor of Science in Mechanical Engineering

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENGR 1402, Concepts of Engineering (See College of Engineering Core Courses)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for College of Engineering	**38**
Additional Support Courses:	**Sem. Hrs.**
Refer to Additional Support Courses for College of Engineering	**7**
College of Engineering Core Courses:	**Sem. Hrs.**
Refer to College of Engineering Core Courses	**34**
Major Requirements: Electives denoted by an asterisk (*) must be chosen from a list of approved electives, which is available from Mechanical Engineering advisors and through the department office. All students must complete at least one thermal/fluid systems stem elective and one mechanical systems stem elective. In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Science in Mechanical Engineering requires that one of the two following conditions be met: 1. "C" or better in each course in the 49-hour major courses; **OR** 2. 2.5 (or greater) grade point average in the 49-hour major courses listed below.	**Sem. Hrs.**
CHEM 1023, General Chemistry II	3
ENGR 3471, Fluid Mechanics Laboratory	1
ENGR 3473, Fluid Mechanics	3
ME 2502, Solid Modeling for Mechanical Engineers	2
ME 3504, Process Monitoring and Control	4
ME 3513, Mechanical Vibrations	3
ME 3533, Engineering Thermodynamics II	3
ME 3613, Control Systems for Mechanical Engineers	3
ME 4503, Fluid and Thermal Energy Systems	3
ME 4543, Machine Design	3
ME 4553, Heat Transfer	3
ME 4563, Introduction to Manufacturing Processes	3
ME 4573, Mechanical System Design	3
ME 4613 Introduction to Mechatronics	3
*ME Elective, Thermal Systems	3
*ME Electives	3
Professional Development Elective *This elective may be selected outside the College of Engineering, subject only to advisor's approval. It must make a rational contribution to the student's personal and professional education goals.*	3
Sub-total	**49**
Total Required Hours:	**128**

Department of Engineering Minors

Minor in Engineering

We propose that each student declaring a minor do so as early in their education as possible and that each student have appointed by the appropriate engineering program director a designated engineering minor advisor in the College of Engineering who will recommend and approve in writing on a designated form any and all engineering courses taken by the student. It is expected that the student's primary academic advisor in his/her major will be informed of the courses recommended by the minor advisor and will consult with the minor advisor as appropriate before releasing the student's academic hold. The program will have sufficient flexibility that in some cases, individually planned hybrid specializations or those outside those currently offered as professional concentration areas for the B.S.-Engineering major (CE, EE, ME), can be accommodated by appropriate selection of courses.

In addition, the awarding of a minor in engineering will require that the student has made a grade of C or better in all courses comprising the 23 credit hours or has a grade point average of 2.5 or above over these courses.

Required Courses:	**Sem. Hrs.**
ENGR 1402, Concepts of Engineering or equivalent *Equivalency will be decided by the minor advisor.*	2
ENGR 1412, Software Applications for Engineers or equivalent *Equivalency will be decided by the minor advisor.*	2
ENGR 2403, Statics	3
ENGR 2423 **AND** ENGR 2421, Electric Circuits I and Laboratory **OR** ENGR 2413 **AND** ENGR 2411, Mechanics of Materials and Laboratory	4
Additional credit hours of other ENGR, CE, EE, or ME prefixed courses of 2000, 3000 or 4000 level courses. These courses must include: - At least, one additional regular engineering laboratory course selected from ENGR 2411, Mechanics of Materials Laboratory, ENGR 2421, Laboratory for Electric Circuits I, or any 3000 or 4000-level CE, EE, ENGR or ME laboratory course. - No more than 4 credit hours of these additional 12 hours can be 2000-level. - No more than 3 credit hours of the 12 can be special problems, student research, independent study, internship, honors senior thesis, or other non-standard courses. - The student should be aware that additional credit hours, for example from other engineering, mathematics, or science courses, may be indirectly required to satisfy all formal prerequisite and corequisite requirements for the engineering courses designated for the minor, as per the ASU Undergraduate Bulletin.	12
Total Required Hours:	**23**

College of Fine Arts

Professor Donald Bowyer, Dean

Arkansas State University's College of Fine Arts is the only college of fine arts in the state. It comprises three departments: Art, Music and Theatre. Each has its own distinctive program, yet they share important common goals: to make students more aware of our intellectual and artistic heritage, to enhance abilities to think critically, to improve skills of effective communication, and to develop the rich potential of the artistically talented.

The College of Fine Arts offers intensive performance, technical, and studio training, studies in history and theory, and certified teacher preparation. Students can major or minor in each department and there are courses specifically designed for the non-major. In addition, the college also sponsors exhibitions, plays, concerts and recitals for the benefit of the entire campus and community. The College of Fine Arts complements the basic philosophy of the university, the importance of humanity, understanding, and expression.

MISSION STATEMENT

The College of Fine Arts serves as the premier cultural institution of Northeast Arkansas. Instructional, scholarly, and creative activities serve as the basis for developing professional careers and outreach that extends to national and international levels. The College is committed to enriching lives through educational and presentational experiences that will continue the development of knowledgeable and skilled artists, arts educators, and scholars and enhance the appreciation of the arts throughout the served community.

Department of Art

Professor Curtis Steele, Chair
Professors: *Allen, Carlisle, Rowe, Salvest*
Associate Professors: *Balducci, Gill, Gipson, Vickrey*
Assistant Professors: *Arnell, Ford, Norris, Wilkinson*

MISSION STATEMENT

The Department of Art is dedicated to the creative, aesthetic and cultural development of visual art students that builds upon a well-rounded liberal arts education. The faculty prepares its students to assume leadership positions in their professional lives while maintaining acommitment to the conceptual and aesthetic standards of their chosen discipline. The department develops and supports a nurturing creative community that builds confidence through academic rigor and provides an environment in which students can build and refine their craft, develop critical thinking skills, and realize their full potential. Graduates of the Department of Art join the community as socially responsible artists, designers, educators and historians ready to contribute to diverse and changing creative fields.

The Bachelor of Arts degree provides a liberal arts-fine arts education in art history. Art history provides practice in analysis, interpretation, critical thinking, and writing skills. This degree is good preparation for a student planning to work toward an advanced degree in art history.

The Bachelor of Fine Arts degree programs are designed to prepare students for professional careers as a classroom art teacher, graphic designer, or studio artist. The BFA in Graphic Design, the BFA in Graphic Design (with emphasis in Digital Design) or the BFA in Art (with emphasis in Studio Art or Art Education) is the initial professional degree, and it is the requisite degree for the student who plans to pursue a studio-oriented post-baccalaureate degree.

No grade below C in courses with an ART/ARTH/ARED prefix may be applied to the Bachelor of Fine Arts Degree. A cumulative 2.75 GPA (or higher) in all courses with an ART/ARTH/ARED prefix is required for the BFA degree.

Arkansas State University is an Accredited Institutional member of the National Association of Schools of Art and Design.

BFA/TRANSFER REVIEW POLICY

BFA review (ART 3330) is viewed as a counseling/advising practice for all art students, and, in addition, it is an admissions screening procedure for students interested in pursuing the B.F.A. Degree in Art or Graphic Design. Students should enroll in ART 3330 after completing 30 hours of ART/ARTH courses and before completing 40 hours of ART/ARTH courses. Prerequisites are ART 1013, ART 1023, ART 1033, ART 1043, ARTH 2583, ARTH 2593, 9 hours additional studio/design courses. Students enrolled in the BFA programs must pass the BFA Review PRIOR to enrollment for 4000 level ART courses.

Transfer review (ART 3330) provides an opportunity for students joining us from other programs to acquire a realistic assessment of their status vis-a-vis our program. Ideally, the transfer review should occur prior to enrollment in ASU art department courses. Should the transfer student intend to enter the B.F.A. Degree program, this review will serve as an admission screening process as indicated above. Transfer students must enroll in ART 3330, BFA Review during the first semester of enrollment at ASU.

Major in Art

Bachelor of Arts
Emphasis in Art History

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ART 1013, Design I Making Connections	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MUS 2503, Fine Arts - Musical* *THEA 2503, Fine Arts - Theatre (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem Hrs.**
Foreign Language (French or German Preferred) *Two years of a high school foreign language may be used to waive six semester hours of this requirement. No credit will be awarded for courses waived.*	**6-12**
Major Requirements: Grade of "C" or better required for all Major Requirements, including prerequisites.	**Sem. Hrs.**
ART 1013, Design I	3
ART 1033, Drawing I	3
ART 1023, Design II	3
ART 1043, Drawing II	3
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
Sub-total	**18**
Art History Emphasis: Grade of "C" or better required for all ART/ARTH/ARED courses applied to the Bachelor of Arts Degree, including prerequisites.	**Sem. Hrs.**
Art Electives	6
Art History Electives	24
History Electives	6
Philosophy and Aesthetics Electives	6
ART 4611, Senior Thesis	1
Sub-total	**43**
Electives:	**Sem. Hrs.**
Electives	**12-18**
Total Required Hours:	**120**

Major in Art

Bachelor of Fine Arts
Emphasis in Studio Art

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ART 1013, Design I Making Connections (See Art Major Core)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MUS 2503, Fine Arts - Musical* *THEA 2503, Fine Arts - Theatre (Required Departmental Gen. Ed. Option)*	**35**
B.F.A. Art Major Core: Grade of "C" or better required for all B.F.A. Art Major Core Requirements, including prerequisites.	**Sem Hrs.**
ART 1013, Design I	3
ART 1033, Drawing I	3
ART 1023, Design II	3
ART 1043, Drawing II	3
ART 3033, Drawing III	3
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
Sub-total	**21**
Studio Art Requirements: Grade of "C" or better required for all Studio Art Requirements, including prerequisites.	**Sem. Hrs.**
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 3403, Photography	3
Sub-total	**15**
Emphasis Area (Studio Art): Grade of "C" or better required for all ART/ARTH/ARED courses applied to the Bachelor of Fine Arts Degree, including prerequisites.	**Sem. Hrs.**
ART Studio Emphasis Areas: Drawing/Painting, Printmaking, Photography, Ceramics, Sculpture (At least 15 of the 39 hours must be taken at the 3000 or 4000 level in one Art Studio Emphasis Area.)	39
Art History Electives	9
ART 3330, BFA Review	0
ART 4331, Senior Exhibition	1
Sub-total	**49**
Total Required Hours:	**120**

Major in Art

Bachelor of Fine Arts
Emphasis in Art Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ART 1013, Design I Making Connections (See Art Major Core)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *MUS 2503, Fine Arts - Musical* *HIST 2763, The United States To 1876* ***OR*** *HIST 2773, The United States Since 1876* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *THEA 2503, Fine Arts - Theatre (Required Departmental Gen. Ed. Option)*	**35**
B.F.A. Art Major Core: Grade of "C" or better required for all B.F.A. Art Major Core Requirements, including prerequisites.	**Sem Hrs.**
ART 1013, Design I	3
ART 1033, Drawing I	3
ART 1023, Design II	3
ART 1043, Drawing II	3
ART 3033, Drawing III	3
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
Sub-total	**21**
Studio Art Requirements: Grade of "C" or better required for all Studio Art Requirements, including prerequisites.	**Sem. Hrs.**
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 3403, Photography	3
Sub-total	**15**
Emphasis Area (Art Education): Grade of "C" or better required for all ART/ARTH/ARED courses applied to the Bachelor of Fine Arts Degree, including prerequisites.	**Sem. Hrs.**
ARED 3803, Teaching Arts in the Elementary Grades	3
ARED 4073, Concepts in Art Education	3
ART 3073, Watercolor	3
ART 3330, BFA Review	0
Upper-level Studio Art	15
Art History Electives	6
Sub-total	**30**

Major in Art (cont.)

Bachelor of Fine Arts
Emphasis in Art Education

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

Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
*EDAR 4523, Methods and Materials in the Teaching of Art	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Instructional Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TIAR 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**
Additional Requirements for Teacher Education:	**Sem. Hrs.**
COMS 1203, Oral Communication *Students must pass an oral communication exam before admittance into the Teacher Education Program. Students who fail the exam must take COMS 1203, Oral Communication.*	**0-3**
Total Required Hours:	**133-136**

Major in Graphic Design

Bachelor of Fine Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ART 1013, Design I Making Connections (See Art Major Core)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MUS 2503, Fine Arts - Musical* *THEA 2503, Fine Arts - Theatre (Required Departmental Gen. Ed. Option)*	**35**
B.F.A. Art Major Core: Grade of "C" or better required for all B.F.A. Art Major Core Requirements, including prerequisites.	**Sem Hrs.**
ART 1013, Design I	3
ART 1033, Drawing I	3
ART 1023, Design II	3
ART 1043, Drawing II	3
ART 3033, Drawing III	3
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
Sub-total	**21**
Studio Art Requirements: Grade of "C" or better required for all Studio Art Requirements, including prerequisites.	**Sem. Hrs.**
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 3403, Photography	3
Sub-total	**15**
Additional Requirements:	**Sem. Hrs.**
ARTH 4573, History of Graphic Design	3
Art History Elective	3
Sub-total	**6**
Graphic Design Requirements: Grade of "C" or better required for all Graphic Design Requirements, including prerequisites.	**Sem. Hrs.**
ART 1413, Design Technology	3
ART 2413, Typography	3
ART 2423, Print and Publication Design	3
ART 2443, Introduction to Web Design	3
ART 2453, Visual Thinking	3
ART 3330, BFA Review	0

Major in Graphic Design (cont.)

Bachelor of Fine Arts

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

ART 3413, Identity Design	3
ART 3423, Package Design	3
ART 3433, Digital Illustration	3
ART 3443, Advertising Design	3
ART 3463, Intermediate Web Design	3
ART 4363, Graphic Design Internship	3
ART 4403, Photography for the Graphic Designer	3
ART 4423, Campaign Design	3
ART 4473, Advanced Web Studio	3
ART 4491, Graphic Design Portfolio	1
Sub-total	**43**
Total Required Hours:	**120**

Major in Graphic Design

Bachelor of Fine Arts
Emphasis in Digital Design

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ART 1013, Design I Making Connections (See Art Major Core)	-
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MUS 2503, Fine Arts - Musical* *THEA 2503, Fine Arts - Theatre (Required Departmental Gen. Ed. Option)*	**35**
B.F.A. Art Major Core: Grade of "C" or better required for all B.F.A. Art Major Core Requirements, including prerequisites.	**Sem Hrs.**
ART 1013, Design I	3
ART 1033, Drawing I	3
ART 1023, Design II	3
ART 1043, Drawing II	3
ART 3033, Drawing III	3
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
Sub-total	**21**
Studio Art Requirements: Grade of "C" or better required for all Studio Art Requirements, including prerequisites.	**Sem. Hrs.**
ART 3063, Painting	3
ART 3083, Printmaking	3
ART 3093, Ceramics	3
ART 3103, Sculpture	3
ART 3403, Photography	3
Sub-total	**15**
Additional Requirements:	**Sem. Hrs.**
ARTH 4573, History of Graphic Design	3
Art History Elective	3
Sub-total	**6**
Emphasis Area (Digital Design): Grade of "C" or better required for all Graphic Design Requirements, including prerequisites.	**Sem. Hrs.**
ART 1413, Design Technology	3
ART 2413, Typography	3
ART 2423, Print and Publication Design	3
ART 2443, Introduction to Web Design	3
ART 2453, Visual Thinking	3
ART 3330, BFA Review	0

Major in Graphic Design (cont.)

Bachelor of Fine Arts
Emphasis in Digital Design

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

ART 3413, Identity Design	3
ART 3433, Digital Illustration	3
ART 3443, Advertising Design	3
ART 3453, Motion Graphics	3
ART 3463, Intermediate Web Design	3
ART 4363, Graphic Design Internship	3
ART 4403, Photography for the Graphic Designer	3
ART 4423, Campaign Design	3
ART 4473, Advanced Web Studio	3
ART 4491, Graphic Design Portfolio	1
Sub-total	**43**
Total Required Hours:	**120**

Department of Art Minors

Minor in Art

Required Courses: Grade of "C" or better required for all ART/ARTH Minor Requirements, including prerequisites (Department of Art minimum) Courses used to meet the requirements for the major cannot be used to meet the requirements for the minor.	**Sem. Hrs.**
ART 1013, Design I	3
ART 1023, Design II	3
ART 1033, Drawing I	3
ART 1043, Drawing II	3
Upper-level electives in Art	9
Total Required Hours:	**21**

Minor in Art History

Required Courses: Grade of "C" or better required for all ART/ARTH Minor Requirements, including prerequisites (Department of Art minimum) Courses used to meet the requirements for the major cannot be used to meet the requirements for the minor.	**Sem. Hrs.**
ARTH 2583, Survey of Art History I	3
ARTH 2593, Survey of Art History II	3
Upper-level electives in Art History	12
Total Required Hours:	**18**

Minor in Graphic Design

Required Courses: Grade of "C" or better required for all ART/ARTH Minor Requirements, including prerequisites (Department of Art minimum) Courses used to meet the requirements for the major cannot be used to meet the requirements for the minor.	**Sem. Hrs.**
ART 1013, Design I	3
ART 1033, Drawing I	3
ART 2413, Typography	3
ART 2423, Print and Publication Design	3
Upper-level electives in Graphic Design	9
Total Required Hours:	**21**

Department of Music

Assistant Professor Ken Hatch, Chair
Professors: *Crist, Dauer, Kyriakos, Miller, Owen, Ross, Schack-Clark*
Associate Professors: *Collison, Carroll, Oliver, Wilson*
Assistant Professors: *Bonner, Carey, Chandler, Labovitz, Seay*
Temporary Instructors: *Coleman, Henkelmann*

The mission of the Music Department of Arkansas State University is to fulfill the following functions: prepare music majors to be highly skilled music educators, performers and/or composers; prepare the general university student to understand, appreciate and support the art of music; and provide quality musical performances and events for the university, the community, and an ever-expanding region.

The department provides curricula which lead to the Bachelor of Music Education, Bachelor of Music, and Bachelor of Arts in music degrees. As appropriate for elementary and secondary licensure in music education, the programs of study for the Bachelor of Music degrees (Vocal and Instrumental) include coursework and field experiences at the elementary and secondary levels. Courses specific to Vocal and Instrumental teaching techniques and literature prepare students for entry into their respective areas. The field experiences provide the necessary breadth and depth in observing and applying best pedagogical approaches and use of appropriate materials for music learning in vocal, instrumental, ans general music. The Bachelor of Music degree emphasizes composition or performance. The Bachelor of Arts degree with a major in music permits the study of music within a liberal arts curriculum and provides a broad coverage of the entire field of music rather than a heavy concentration in a single area.

Departmental requirements include recital attendance, performance proficiency, and participation in one or more of the performing organizations.

Students who transfer to Arkansas State University for the purpose of obtaining a degree in Music and who have 60 or more college credits may be required to take competency exams in their applied music majors and basic music areas and may be required to take remedial work in these areas if necessary.

Major in Music

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MUS 1403, Music Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *THEA 2503, Fine Arts - Theatre* *ART 2503, Fine Arts - Visual (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem Hrs.**
Foreign Language *Two years of a high school foreign language may be used to waive six semester hours of this requirement. No credit will be awarded for courses waived.*	**6-12**
Major Requirements:	**Sem. Hrs.**
MUS 1100, Recital Attendance (6 semesters)	0
MUS 1511, Aural Theory I	1
MUS 1521, Aural Theory II	1
MUS 2511, Aural Theory III	1
MUS 2521, Aural Theory IV	1
MUS 1513, Theory I	3
MUS 1523, Theory II	3
MUS 2513, Theory III	3
MUS 2523, Theory IV	3
MUS 1611, Keyboard Skills I	1
MUS 1621, Keyboard Skills II	1
MUS 2611, Keyboard Skills III	1
MUS 2621, Keyboard Skills IV	1
MUS 3372, History of Western Music I	2
MUS 3382, History of Western Music II	2
MUS Theory Electives (upper-level courses)	2
Major Performance Area (seven hours must be upper-level)	9
Music Ensemble (upper-level courses)	8
Sub-total	**43**
Minor:	**Sem. Hrs.**
Must be approved by advisor	**18-21**
Electives:	**Sem. Hrs.**
Electives	**6-15**
Total Required Hours:	**120**

Major in Music

Bachelor of Music
Emphasis in Instrumental Performance

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MUS 1403, Music Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *THEA 2503, Fine Arts - Theatre* *ART 2503, Fine Arts - Visual (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
MUS 1100, Recital Attendance (6 semesters)	0
MUS 1511, Aural Theory I	1
MUS 1521, Aural Theory II	1
MUS 2511, Aural Theory III	1
MUS 2521, Aural Theory IV	1
MUS 1513, Theory I	3
MUS 1523, Theory II	3
MUS 2513, Theory III	3
MUS 2523, Theory IV	3
MUS 1611, Keyboard Skills I	1
MUS 1621, Keyboard Skills II	1
MUS 2611, Keyboard Skills III	1
MUS 2621, Keyboard Skills IV	1
MUS 3372, History of Western Music I	2
MUS 3382, History of Western Music II	2
MUS 3441, Elementary Conducting	1
MUS 3422, Elementary Orchestration and Choral Arranging	2
MUS 4412, Form and Analysis	2
MUS 4512, Church Music **OR** MUS 4322, History of Jazz	2
MUSP 1112, (Major Applied Area) 2 semesters - lower-level	4
MUSP 3113, (Major Applied Area) 6 semesters - upper-level	18
Sub-total	**53**
Emphasis Area (Instrumental Performance):	**Sem. Hrs.**
MUS 3130, Junior Recital	0
MUSP 4161, Pedagogy and Performance	2
MUSP 3111, (Secondary Applied Area)	4
MUSP 4131, Senior Recital	1
Music Electives	14
Music Ensemble *Must include 4 semesters of Wind Ensemble, Symphonic Band, or Orchestra.*	8
Sub-total	**29**
Total Required Hours:	**120**

Major in Music

Bachelor of Music
Emphasis in Voice Performance

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MUS 1403, Music Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *THEA 2503, Fine Arts - Theatre* *ART 2503, Fine Arts - Visual (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
MUS 1100, Recital Attendance (6 semesters)	0
MUS 1511, Aural Theory I	1
MUS 1521, Aural Theory II	1
MUS 2511, Aural Theory III	1
MUS 2521, Aural Theory IV	1
MUS 1513, Theory I	3
MUS 1523, Theory II	3
MUS 2513, Theory III	3
MUS 2523, Theory IV	3
MUS 1611, Keyboard Skills I	1
MUS 1621, Keyboard Skills II	1
MUS 2611, Keyboard Skills III	1
MUS 2621, Keyboard Skills IV	1
MUS 3372, History of Western Music I	2
MUS 3382, History of Western Music II	2
MUS 3441, Elementary Conducting	1
MUS 3422, Elementary Orchestration and Choral Arranging	2
MUS 4412, Form and Analysis	2
MUS 4512, Church Music **OR** MUS 4322, History of Jazz	2
MUSP 1112, (Major Applied Area) 2 semesters - lower-level	4
MUSP 3113, (Major Applied Area) 6 semesters - upper-level	18
Sub-total	**53**

Major in Music (cont.)

Bachelor of Music
Emphasis in Voice Performance

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

Emphasis Area (Voice Performance):	Sem. Hrs.
FR 1013, Elementary French I	3
FR 1023, Elementary French II	3
GER 1013, Elementary German I	3
GER 1023, Elementary German II	3
MUS 3130, Junior Recital	0
MUS 3211, Diction for Singers I	1
MUS 3221, Diction for Singers II	1
MUS 3523, Song Literature	3
MUS 4131, Senior Recital	1
MUSP 3111, Piano, 2 semesters	2
MUSP 4161, Pedagogy and Performance	1
Upper-level Music Electives	2
Music Ensemble (five hours must be upper-level) *May include at least 3 semesters of MUS 3471, Opera Production.*	6
Sub-total	**29**
Total Required Hours:	**120**

Major in Music

Bachelor of Music
Emphasis in Keyboard Performance

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MUS 1403, Music Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *THEA 2503, Fine Arts - Theatre* *ART 2503, Fine Arts - Visual (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
MUS 1100, Recital Attendance (6 semesters)	0
MUS 1511, Aural Theory I	1
MUS 1521, Aural Theory II	1
MUS 2511, Aural Theory III	1
MUS 2521, Aural Theory IV	1
MUS 1513, Theory I	3
MUS 1523, Theory II	3
MUS 2513, Theory III	3
MUS 2523, Theory IV	3
MUS 3372, History of Western Music I	2
MUS 3382, History of Western Music II	2
MUS 3441, Elementary Conducting	1
MUS 3422, Elementary Orchestration and Choral Arranging	2
MUS 4412, Form and Analysis	2
MUS 4512, Church Music **OR** MUS 4322, History of Jazz	2
MUSP 1112, (Major Applied Area) 2 semesters - lower-level	4
MUSP 3113, (Major Applied Area) 6 semesters - upper-level	18
Sub-total	**49**
Emphasis Area (Keyboard Performance):	**Sem. Hrs.**
FR 1013 **AND** FR 1023, Elementary French I and II **OR** GER 1013 **AND** GER 1023, Elementary German I and II	6
MUED 4642, Piano Pedagogy	2

Major in Music (cont.)

Bachelor of Music
Emphasis in Keyboard Performance

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

MUS 3130, Junior Recital	0
MUS 4131, Senior Recital	1
MUS 4151, Collaborative Piano (two semesters)	2
MUS 4223, Piano Literature	3
MUS 4512, Church Music (Organ Majors - 2 hours; Piano Majors - 0 hours)	0-2
MUSP 3111, (Secondary Applied Area - advisor approval required)	4
Music Electives (Organ Majors - 9; Piano Majors - 11)	9-11
Music Ensemble	4
Sub-total	**33**
Total Required Hours:	**120**

Major in Music

Bachelor of Music
Emphasis in Composition

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MUS 1403, Music Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *THEA 2503, Fine Arts - Theatre* *ART 2503, Fine Arts - Visual (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
MUS 1100, Recital Attendance (6 semesters)	0
MUS 1511, Aural Theory I	1
MUS 1521, Aural Theory II	1
MUS 2511, Aural Theory III	1
MUS 2521, Aural Theory IV	1
MUS 1513, Theory I	3
MUS 1523, Theory II	3
MUS 2513, Theory III	3
MUS 2523, Theory IV	3
MUS 1611, Keyboard Skills I	1
MUS 1621, Keyboard Skills II	1
MUS 2611, Keyboard Skills III	1
MUS 2621, Keyboard Skills IV	1
MUS 3372, History of Western Music I	2
MUS 3382, History of Western Music II	2
MUS 3441, Elementary Conducting	1
MUS 3422, Elementary Orchestration and Choral Arranging	2
MUS 4412, Form and Analysis	2
MUS 4512, Church Music **OR** MUS 4322, History of Jazz	2
MUSP 1112, (Major Applied Area) 2 semesters - lower-level	4
MUSP 3113, (Major Applied Area) 6 semesters - upper-level	18
Sub-total	**53**

Major in Music (cont.)

Bachelor of Music
Emphasis in Composition

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

Emphasis Area (Composition):	**Sem. Hrs.**
MUS 3130, Junior Recital	0
MUS 3451, Choral Conducting **OR** MUS 3461, Instrumental Conducting	1
MUS 4131, Senior Recital	1
MUSP 1112 (Major Performance Area - advisor approval required)	6
MUSP 3112 (Major Performance Area - advisor approval required)	6
Music Electives	7
Music Ensemble *Must include 4 semesters of large ensemble plus 2 semesters of small ensemble.*	8
Sub-total	**29**
Total Required Hours:	**120**

Major in Instrumental Music

Bachelor of Music Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MUS 1403, Music Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *THEA 2503, Fine Arts - Theatre* *HIST 2763, The United States To 1876 O**R*** *HIST 2773, The United States Since 1876* *PSY 2013, Introduction to Psychology* *ART 2503, Fine Arts - Visual (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
MUS 1100, Recital Attendance (6 semesters)	0
MUS 1331, 3331, Symphonic Band **OR** MUS 1311, 3311, Wind Ensemble *Combined for a total of 3 credits.*	3
MUS 1341, 3341, Marching Band (combined for a total of 3 credits)	3
MUS 1511, Aural Theory I	1
MUS 1521, Aural Theory II	1
MUS 2511, Aural Theory III	1
MUS 2521, Aural Theory IV	1
MUS 1513, Theory I	3
MUS 1523, Theory II	3
MUS 2513, Theory III	3
MUS 2523, Theory IV	3
MUS 1611, Keyboard Skills I	1
MUS 1621, Keyboard Skills II	1
MUS 2611, Keyboard Skills III	1
MUS 3372, History of Western Music I	2
MUS 3382, History of Western Music II	2
MUS 3441, Elementary Conducting	1
MUS 3461, Instrumental Conducting	1
MUS 3422, Elementary Orchestration and Choral Arranging	2
MUS 4322, History of Jazz	2
MUSP 1111, (Major Applied Area) 1 semester - lower-level	1
MUSP 1112, (Major Applied Area) 2 semesters - lower-level *Those students who declare instrumental music as their major area will take a proficiency exam in their major instrument at the end of the third semester of applied study. Failure to pass this exam will indicate the need to repeat MUSP 1112 until such time as the exam can be passed.*	4

Major in Instrumental Music (cont.)

Bachelor of Music Education

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

MUSP 3112, (Major Applied Area) 3 semesters - upper-level	6
Instrumental Technique Courses (select five of the following): *Proficiency exams required on secondary band instruments and piano.* MUS 3231, Flute and Saxophone Techniques MUS 3241, Double Reed Techniques MUS 3251, Clarinet Techniques MUS 3281, Percussion Techniques MUS 3551, High Brass Techniques MUS 3561, Low Brass Techniques	5
*MUED 4623, Methods and Materials for Teaching Elementary School Music	3
*MUED 4573, Methods and Materials for Teaching Instrumental Music	3
Sub-total	**57**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Education	3
*SCED 3515, Performance Based Instructional Design	5
*TIMU 4826, Teaching Internship in the Secondary School	12
Sub-total	**26**
Additional Requirements for Teacher Education:	**Sem. Hrs.**
COMS 1203, Oral Communication *Students must pass an oral communication exam before admittance into the Teacher Education Program. Students who fail the exam must take COMS 1203, Oral Communication.*	**0-3**
Total Required Hours:	**121-124**

Licensure Requirement (not a program requirement):	**Sem. Hrs.**
POSC 2103, Introduction to United States Government *Not counted in total required hours for degree program.*	**3**

Major in Vocal Music

Bachelor of Music Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MUS 1403, Music Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *THEA 2503, Fine Arts-Theatre* *HIST 2763, The United States To 1876 OR* *HIST 2773, The United States Since 1876* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *ART 2503, Fine Arts-Visual (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section. Although three hours of Keyboard Skills are required, failure to pass the proficiency exam will indicate the need to take additional semesters of piano.	**Sem. Hrs.**
MUS 1100, Recital Attendance (6 semesters)	0
MUS 1361, 3361, University Singers **OR** MUS 1351, 3351, Concert Choir *Combined for a total of six credits.*	6
MUS 1511, Aural Theory I	1
MUS 1521, Aural Theory II	1
MUS 2511, Aural Theory III	1
MUS 2521, Aural Theory IV	1
MUS 1513, Theory I	3
MUS 1523, Theory II	3
MUS 2513, Theory III	3
MUS 2523, Theory IV	3
MUS 1611, Keyboard Skills I	1
MUS 1621, Keyboard Skills II	1
MUS 2611, Keyboard Skills III	1
MUS 3372, History of Western Music I	2
MUS 3382, History of Western Music II	2
MUS 3211, Diction I	1
MUS 3221, Diction II	1
MUS 3441, Elementary Conducting	1
MUS 3451, Choral Conducting	1
MUS 3422, Elementary Orchestration and Choral Arranging	2
MUS 4322, History of Jazz **OR** MUS 4512, Church Music	2
MUSP 1111, (Major Applied Area) 1 semester - lower-level	1

Major in Vocal Music (cont.)

Bachelor of Music Education

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

MUSP 1111, (Secondary Applied Area) 1 semester *Those students who declare piano as their Major Applied Area must use voice as the Secondary Applied Area. Although only one hour of voice is required for this degree, failure to pass the proficiency exam will indicate the need to take additional semesters of voice.*	1
MUSP 1112, (Major Applied Area) 2 semesters - lower-level *Those students who declare voice as their major area will take a proficiency exam in singing at the end of the third semester of applied study. Failure to pass this exam will indicate the need to repeat MUSP 1112 until such time as the exam can be passed. There will also be an exit exam at the end of the final semester of applied voice study.*	4
MUSP 3112, (Major Applied Area) 3 semesters - upper-level	6
MUSP 4161, Pedagogy and Performance	1
Instrumental Technique Courses (select one of the following): MUS 2231, String Instrument Techniques MUS 3231, Flute and Saxophone Techniques MUS 3241, Double Reed Techniques MUS 3251, Clarinet Techniques MUS 3281, Percussion Techniques MUS 3551, High Brass Techniques MUS 3561, Low Brass Techniques	1
*MUED 4623, Methods and Materials for Teaching Elementary School Music	3
*MUED 4643, Methods and Materials for Teaching Vocal Music	3
Sub-total	**57**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3553, Educational Psychology	3
SCED 2513, Introduction to Secondary Education	3
*SCED 3515, Performance Based Instructional Design	5
*TIMU 4826, Teaching Internship in the Secondary School	12
Sub-total	**26**
Additional Requirements for Teacher Education:	**Sem. Hrs.**
COMS 1203, Oral Communication *Students must pass an oral communication exam before admittance into the Teacher Education Program. Students who fail the exam must take COMS 1203, Oral Communication.*	**0-3**
Total Required Hours:	**121-124**

Licensure Requirement (not a program requirement):	**Sem. Hrs.**
POSC 2103, Introduction to United States Government *Not counted in total required hours for degree program.*	**3**

Department of Music Minors

Minor in Music

(Not for Teacher Certification)

Required Courses: Twelve hours must be upper-level courses.	**Sem. Hrs.**
MUS 1511, Aural Theory I	1
MUS 1513, Theory I	3
MUS 1521, Aural Theory II	1
MUS 1523, Theory II	3
Music History (select two of the following): MUS 3372, History of Western Music I MUS 3382, History of Western Music II MUS 4512, Church Music MUS 4322, History of Jazz	4
Applied Music (composition, instrumental, keyboard, or voice; four semesters in one performance area) MUSP 1111, Applied Music MUSP 1112, Applied Music MUSP 3111, Applied Music MUSP 3112, Applied Music	4
Music Electives	6
Total Required Hours:	**22**

Department of Theatre

Professor Bob Simpson, Chair
Professors: *M. Simpson*
Assistant Professors: *L. Bohn, T. Bohn, McLaughlin, Abernathy*

The Department of Theatre offers coursework leading to the Bachelor of Arts degree in Theatre and a minor in Theatre.

The Bachelor of Arts in Theatre offers a comprehensive approach with emphases in Acting, Directing and Design Technology.

Major in Theatre

Bachelor of Arts
Emphasis in Acting

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *ART 2503, Fine Arts - Visual* *MUS 2503, Fine Arts - Musical (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
THEA 1203, Introduction to Theatre	3
THEA 1213, Beginning Acting	3
THEA 1223, Principles of Stage Design	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
THEA 2243 Stage Costume Construction	3
THEA 3223, Studies in Dramatic Literature	3
THEA 3233 Play Analysis	3
THEA 3252, Theatre Laboratory (must take three times)	6
THEA 4203, Stage Directing I	3
THEA 4263, History of the Theatre I	3
THEA 4273, History of the Theatre II	3
Design (select one of the following): THEA 4223, Scene Design THEA 4243, Stage Costume Design THEA 4303, Stage Lighting THEA 4413, Sound Design and Production for the Theatre	3
Sub-total	**42**
Emphasis Area (Acting):	**Sem. Hrs.**
THEA 2203, Voice and Movement for Theatre I	3
THEA 2213, Creative Improvisation	3
THEA 3213 Audition Techniques	3
Acting Electives (select two of the following): THEA 3243, Stage Combat THEA 3263, Acting Shakespeare THEA 3273, Voice and Movement for Theatre THEA 4213, Acting on Camera THEA 4283, Period Styles in Acting THEA 4333, Advanced Acting THEA 4343, Musical Theatre	6
Sub-total	**15**
Minor:	**Sem. Hrs.**
Minor	**18**
Electives:	**Sem. Hrs.**
Electives	**7**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Theatre

Bachelor of Arts
Emphasis in Design Technology

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *ART 2503, Fine Arts - Visual* *MUS 2503, Fine Arts - Musical (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
THEA 1203, Introduction to Theatre	3
THEA 1213, Beginning Acting	3
THEA 1223, Principles of Stage Design	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
THEA 2243 Stage Costume Construction	3
THEA 3223, Studies in Dramatic Literature	3
THEA 3233 Play Analysis	3
THEA 3252, Theatre Laboratory (must take three times)	6
THEA 4203, Stage Directing I	3
THEA 4263, History of the Theatre I	3
THEA 4273, History of the Theatre II	3
Design (select one of the following): THEA 4223, Scene Design THEA 4243, Stage Costume Design THEA 4303, Stage Lighting THEA 4413, Sound Design and Production for the Theatre	3
Sub-total	**42**
Emphasis Area (Design Technology):	**Sem. Hrs.**
THEA 2253, Stage Management	3
THEA 3213, Audition Techniques	3
THEA 4323, Stage Directing II	3
Design Technology Electives (select two of the following): THEA 2263, History of Costumes THEA 4233, Advanced Makeup Design THEA 4243, Theatre Management THEA 437V, Special Problems: Scenic Painting THEA 437V, Special Problems: Computer-Aided-Design	6
Sub-total	**15**
Minor:	**Sem. Hrs.**
Minor	**18**
Electives:	**Sem. Hrs.**
Electives	**7**
Total Required Hours:	**120**

Major in Theatre

Bachelor of Arts
Emphasis in Directing

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *ART 2503, Fine Arts - Visual* *MUS 2503, Fine Arts - Musical (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
THEA 1203, Introduction to Theatre	3
THEA 1213, Beginning Acting	3
THEA 1223, Principles of Stage Design	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
THEA 2243 Stage Costume Construction	3
THEA 3223, Studies in Dramatic Literature	3
THEA 3233 Play Analysis	3
THEA 3252, Theatre Laboratory (must take three times)	6
THEA 4203, Stage Directing I	3
THEA 4263, History of the Theatre I	3
THEA 4273, History of the Theatre II	3
Design (select one of the following): THEA 4223, Scene Design THEA 4243, Stage Costume Design THEA 4303, Stage Lighting THEA 4413, Sound Design and Production for the Theatre	3
Sub-total	**42**
Emphasis Area (Directing):	**Sem. Hrs.**
THEA 2253, Stage Management	3
THEA 3213, Audition Techniques	3
THEA 4323, Stage Directing II	3
Directing Electives (select two of the following): THEA 3243, Stage Combat THEA 3263, Acting Shakespeare THEA 4253, Theatre Management THEA 4283, Period Styles in Acting THEA 4413, Sound Design and Production for the Theatre	6
Sub-total	**15**
Minor:	**Sem. Hrs.**
Minor	**18**
Electives:	**Sem. Hrs.**
Electives	**7**
Total Required Hours:	**120**

Department of Theatre Minors

Minor in Theatre

Required Courses:	Sem. Hrs.
THEA 1213, Beginning Acting	3
THEA 2223, Fundamentals of Stagecraft	3
THEA 2233, Stage Makeup	3
Upper-level Theatre electives *No more than 4 hours of lab and 6 hours of summer theatre.*	12
Total Required Hours:	**21**

College of Humanities and Social Sciences

Professor Lauri Umansky, Dean
Associate Professor Deborah Chappel Traylor, Associate Dean

MISSION STATEMENT

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, 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. Most degree programs offer minors. Minors are also available in the following fields: African-American Studies, Cognitive Science, Family Studies, Folklore Studies, French, German, International Studies, Medieval Studies, Modern European Studies, Religious Studies, Spanish, 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 provides pre-professional advisement for law school as part of its Political Science, Philosophy, History, and Criminology majors.

The College of Humanities and Social Sciences grants a full range of masters' degree (M.A., M.P.A., and M.S.E.) programs, several Educational Specialist degree (Ed.S.) programs, and an interdisciplinary doctoral degree (Ph.D.) program (Heritage Studies). For further information, see ASU's Graduate Bulletin.

The College is comprised of five departments:

Department of Criminology, Sociology, and Geography
Department of English and Philosophy
Department of History
Department of Political Science
Department of World Languages and Cultures

BACHELOR OF SCIENCE IN EDUCATION GRADUATION REQUIREMENTS

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 and Behavioral Science, 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

Professors: *Chu, Stroud*
Associate Professors: *Donaghy, Hill*
Assistant Professors: *Barrett-Fox, Costello, Kendig, Kulkarni, Ratliff, Rokus*
Instructors: *Brady, Daughhetee, DeGarmo, Nunis, Wright*

The Department of Criminology, Sociology, and Geography offers to students courses designed to provide them with a better understanding of themselves and their environment. Within this multi-disciplinary department, students have an opportunity to receive a baccalaureate degree in one of two areas: Criminology and Sociology.

Majors in the Department of Criminology, Sociology, and Geography are prepared for many professions including teaching, government service, law, business, research, cartography, and community planning; and for professional careers within the criminal justice system such as police, truancy and probation officers, parole officers, and correctional and research personnel.

Major in Criminology

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
SOC 1013, Making Connections Sociology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *PHIL 1103, Introduction to Philosophy* *Twelve hours in Social Sciences (Required Departmental Gen. Ed. Option), including one of the following:* *GEOG 2613, Introduction to Geography* *POSC 2103, Introduction to U. S. Government* *PSY 2013, Introduction to Psychology* *SOC 2213, Introduction to Sociology*	**35**
Language Requirement:	**Sem. Hrs.**
Foreign Language *Refer to Foreign Language Requirement in College of Humanities and Social Sciences.*	**0-12**
Major Requirements:	**Sem. Hrs.**
CRIM 1023, Introduction to Criminal Justice	3
CRIM 2263, Criminal Evidence and Procedure **OR** POSC 3183, Criminal Law and the Constitution	3
CRIM 3183, Institutional Corrections **OR** CRIM 3193, Community Corrections	3
CRIM 3223, Police and Society	3
CRIM 3263, Criminology	3
CRIM 4103, Criminal Justice Systems	3
SOC 3293, Social Behavior	3
SOC 3383 **AND** 3381, Social Statistics and Laboratory	4
SOC 4293, Methods of Social Research	3

Major in Criminology (cont.)

Bachelor of Arts

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

Electives (select 21 hours from the following): CRIM 2043, Community Relations CRIM 2253, Criminal Investigation CRIM 2263, Criminal Evidence and Procedure *If not used for major core course requirement.* CRIM 3323, Juvenile Delinquency CRIM 460V, Special Problems CRIM 470V, Internship GEOG 3603, World Regional Geography GEOG 3643, Introduction to Cultural Geography GEOG 3703, Political Geography GEOG 3813 Introduction to Geographic Information Systems GEOG 4623, Environmental Management GEOG 4643, Geography of Arkansas HIST 3583, History of Law Enforcement POSC 3113, American Municipal Government POSC 3143, State and Local Government POSC 3183, Criminal Law and the Constitution *If not used for major core course requirement.* POSC 4533, Environmental Law and Administration PSY 3413, Adolescent Psychology PSY 4533, Abnormal Psychology SOC 2223, Social Problems SOC 3273, Social Stratification **OR** GEOG 3683 Economic Geography SOC 3353, Minority Groups SOC 4003, Perspectives on Death and Dying SOC 4063, Sociology of Disasters SOC 4073, Sociology of Family Violence **OR** SW 4213, Introduction to Domestic Violence SOC 4203, Social Deviance SOC 4223, Urban Sociology **OR** GEOG 4223 Urban Geography SOC 4233, Social Organization SOC 4243, Social Theory SOC 4253, Rural Sociology SOC 4263, Terrorism as a Social Movement SOC 4273, Population and Demography SOC 4323, Applied Research SOC 4343 Geographic Information Systems for the Social Sciences SOC 4363, Environmental Sociology SW 3323, Substance Abuse: Intervention and Treatment SW 3343, Child Abuse and Neglect	21
Sub-total	**49**
Electives:	**Sem. Hrs.**
Electives	**21-33**
Total Required Hours:	**120**

Major in Sociology

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
SOC 1013, Making Connections Sociology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *PHIL 1103, Introduction to Philosophy* *Twelve hours in Social Sciences (Required Departmental Gen. Ed. Option), including one of the following:* *GEOG 2613, Introduction to Geography* *PSY 2013, Introduction to Psychology*	**35**
Language Requirement:	**Sem. Hrs.**
Foreign Language *Refer to Foreign Language Requirement in College of Humanities and Social Sciences.*	**0-12**
Major Requirements:	**Sem. Hrs.**
SOC 2213, Introduction to Sociology *If taken to meet General Education Requirement, substitute another SOC course for Major Requirement.*	3
SOC 2223, Social Problems	3
SOC 3383 **AND** 3381, Social Statistics and Laboratory	4
SOC 4243, Social Theory	3
SOC 4293, Methods of Social Research	3
SOC 4323, Applied Research **OR** SOC 4343, Geographic Information Systems for the Social Sciences	3
Global Awareness/World Cultures Elective (select three hours from the following): ANTH 3233, Native American Culture in the Mid South FR 3613, French Civilization FR 3623, Contemporary France GEOG 3603, World Regional Geography GEOG 3663, Geography of Africa GER 3173, German Civilization HIST 3013, Civilizations of Africa HIST 3303, Modern History of the Middle East POSC 3223, European Political Systems POSC 3233, Chinese Political System SPAN 3623, Culture and Civilization - The Américas SPAN 3633, Culture and Civilization, Spain	3

Major in Sociology (cont.)

Bachelor of Arts

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

Electives (select 18 hours from the following): ANTH 2233, Introduction to Cultural Anthropology CRIM 3263, Criminology CRIM 3323, Juvenile Delinquency GEOG 3643, Introduction to Cultural Geography GEOG 3703, Political Geography GEOG 3813, Introduction to Geographic Information Systems SOC 3003, Sociology of Gender SOC 3213, Sociology of Intimate Relationships SOC 3223, Sociology of Families SOC 3273, Social Stratification **OR** GEOG 3683, Economic Geography SOC 3293, Social Behavior SOC 3313, Sociology of Sexuality SOC 3333, Sociology of Health & Illness SOC 3353, Minority Groups SOC 3363, Sociology of Religion SOC 3373, Technology and Society SOC 4003, Perspectives on Death and Dying SOC 4053, Today's Families SOC 4063, Sociology of Disasters SOC 4073, Sociology of Family Violence SOC 4203, Social Deviance SOC 4213, Childhood and Adolescence SOC 4223, Urban Sociology **OR** GEOG 4223, Urban Geography SOC 4233, Social Organization SOC 4253, Rural Sociology SOC 4263, Terrorism as a Social Movement SOC 4273, Population and Demography SOC 4323, Applied Research *If not taken to satisfy the core requirement.* SOC 4343, Geographic Information Systems for the Social Sciences *If not taken to satisfy the core requirement.* SOC 4353, Sociology of Aging SOC 4363, Environmental Sociology SOC 460V, Special Problems SOC 470V, Internship	18
Sub-total	**40**
Electives:	**Sem. Hrs.**
Electives	**30-42**
Total Required Hours:	**120**

Department of Criminology, Sociology and Geography Minors

Minor in Criminology

Required Courses:	Sem. Hrs.
CRIM 1023, Introduction to Criminal Justice	3
CRIM 2263, Criminal Evidence and Procedure **OR** POSC 3183, Criminal Law and the Constitution	3
CRIM 3183, Institutional Corrections **OR** CRIM 3193, Community Corrections	3
CRIM 3223, Police and Society	3
CRIM 3263, Criminology **OR** CRIM 3323, Juvenile Delinquency	3
CRIM 4103, Criminal Justice Systems	3
Total Required Hours:	**18**

Minor in Homeland Security and Disaster Preparedness

The minor in Homeland Security and Disaster Preparedness is a multidisciplinary program offered in the College of Nursing and Health Professions and the College of Humanities and Social Sciences. The structure of the minor provides specialized training within each of three tracks. The introductory and capstone course provide the common framework necessary for the integration of these fields and the cooperative efforts of the specialists working within them.

Required Courses:	Sem. Hrs.
DPEM/NRS/POSC 4553, Capstone in Homeland Security and Disaster Preparedness	3
NRS 3503, Principles of Disaster Preparedness and Emergency Management	3
Select three courses from within a single track: **Track 1: Healthcare in Homeland Security and Emergency Preparedness** NRS 4513, Physical Care of Chemical, Biological, Radiologic, Nuclear and Explosive Injuries NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness NRS 4533, Disaster Mental Health SW 4203, Crisis Intervention **Track 2: Disaster Preparedness, Response and Operations Management** POSC 4513, Disaster Response - Operations and Management PR 4603, Crisis Communication SOC 4343, GIS for Social Sciences POSC 4133, Intergovernmental Relations and Federalism in an Era of Insecurity **Track 3: Sociocultural & Political Disaster Preparedness** SOC 3363, Sociology of Religion OR SW 4363, Religion and Spirituality in Social Work Practice SOC 4003, Perspectives on Death and Dying SOC 4063, Sociology of Disasters SOC 4263, Terrorism as a Social Movement	9
Select one course from one of the other two tracks.	3
Total Required Hours:	**18**

Department of Criminology, Sociology and Geography Minors

Minor in Children's Advocacy Studies

Required Courses:	Sem. Hrs.
SW 3313, Child Welfare	3
SW 3343, Child Abuse and Neglect	3
SW 4323, Case Management in Social Work Settings	3
SW/CRIM/SOC 4383, Child Welfare and the Law (Capstone Course)	3
Select one of the following: SOC 4073, Sociology of Family Violence SW 3323, Substance Abuse SW 4213, Introduction to Domestic Violence	3
SOC 4213, The Sociology of Childhood and Adolescence **OR** SW 3303, Human Behavior and the Social Environment I	3
CRIM 2253, Criminal Investigation **OR** CRIM 2263, Criminal Evidence and Procedure	3
Total Required Hours:	**21**

Minor in Interdisciplinary Family Studies

Required Courses:	Sem. Hrs.
Interdisciplinary Course: NRS/ECH/PSY/SOC 4053, Today's Families Interdisciplinary Approaches *The Interdisciplinary Course may only be completed once for credit, regardless of prefix. Student should complete a minimum of twelve hours in the minor before registering for the Interdisciplinary course.*	3
Sociology: SOC 3223, Sociology of Families **OR** SOC 3213, Sociology of Intimate Relationships	3
Human Development: PSY 3403, Child Psychology **OR** PSY 3413, Adolescent Psychology	3
Families in Social Contexts: SW 3313, Introduction to Child Welfare **OR** SW 3343, Child Abuse and Neglect	3
Family and Health (select one of the following): HLTH 3563, Human Sexuality NS 2203, Basic Human Nutrition NRS 3353, Aging and the Older Adult	3
Special Interest Option: *An additional 3 hours may come from any of the courses listed above or from an approved special topics/independent study course/or a one-time special course offered out of another discipline. This option allows students the opportunity to explore specific areas of interest.*	3
Total Required Hours:	**18**

Minor in Sociology

Required Courses:	Sem. Hrs.
SOC 2213, Introduction to Sociology	3
Sociology electives	3
Upper-level Sociology electives	12
Total Required Hours:	**18**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

CRIME SCENE INVESTIGATION AND LAW ENFORCEMENT ADMINISTRATION
ASSOCIATE OF APPLIED SCIENCE DEGREES

The Associate of Applied Science degrees in Crime Scene Investigation and Law Enforcement Administration are offered through a partnership agreement between Arkansas State University and the Criminal Justice Institute of the University of Arkansas. Students must be currently employed by a law enforcement agency to participate in either of these degree programs and be fully admitted to both Arkansas State University—Jonesboro and the Criminal Justice Institute using the admissions process for each institution. The general education component of the program will be provided by ASU—Jonesboro and all students must comply with the state guidelines concerning freshman assessment and course placement in English, Mathematics, and Reading. Courses offered and completed through the Criminal Justice Institute will apply only toward the associate of applied sciences degree and will not be accepted by Arkansas State University as satisfying requirements for any other associate or baccalaureate degree. It is the responsibility of the student to request credit for the Criminal Justice Institute courses and submit the proper documentation prior to or during the student's first enrollment at ASU. Partnership agreement tuition discounts for these programs may be applied at Marked Tree and Paragould locations only.

Crime Scene Investigation

Associate of Applied Science

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
CIT 1503, Microcomputer Applications **OR** CS 1013, Introduction to Computers *May be replaced with BUS 1303, Computer Applications.*	3
ENG 1003, Composition I	3
ENG 1013, Composition II	3
MATH 1023, College Algebra	3
HIST 2763, The United States To 1876 **OR** HIST 2773, the United States Since 1876 **OR** POSC 2103, Introduction to United States Government	3
Select fifteen hours from the following: ANTH 2233, Cultural Anthropology **OR** SOC 2213, Introduction to Sociology BIOL 1003, Biological Sciences **OR** BIO 2203, Human Anatomy and Physiology I (lab not required) COMS 1203, Oral Communication CRIM 1023, Introduction to Criminal Justice ECON 2333, Economic Issues and Concepts **OR** ECON 2313, Principles of Macroeconomics HIST 2763, The United States To 1876 **OR** HIST 2773, The United States Since 1876 **OR** POSC 2103, Introduction to United States Government PSY 2013, Introduction to Psychology SPAN 1013, Elementary Spanish I	15
Sub-total	**30**
Criminal Justice Institute Coursework:	**Sem. Hrs.**
Criminal Justice Institute Coursework	**35-38**
Total Required Hours:	**65-68**

Law Enforcement Administration

Associate of Applied Science

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
BIOL 1003, Biological Sciences **OR** BIO 2203, Human Anatomy and Physiology I (labs not required)	3
CIT 1503, Microcomputer Applications **OR** CS 1013, Introduction to Computers *May be replaced with BUS 1303, Computer Applications.*	3
COMS 1203, Oral Communication	3
CRIM 1023, Introduction to Criminal Justice	3
ECON 2333, Economic Issues and Concepts **OR** ECON 2313, Principles of Macroeconomics	3
ENG 1003, Composition I	3
ENG 1013, Composition II	3
MATH 1023, College Algebra	3
POSC 2103, Introduction to United States Government	3
SOC 2213, Introduction to Sociology	3
Sub-total	**30**
Criminal Justice Institute Coursework:	**Sem. Hrs.**
Criminal Justice Institute Coursework	**39**
Total Required Hours:	**69**

Law Enforcement

Associate of Applied Science

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
ENG 1003, Composition I	3
ENG 1013, Composition II	3
BIOL 1003 **AND** 1001, Biological Science and Laboratory	4
CS 1043, Introduction to Computers	3
HIST 1013, World Civilization To 1660 **OR** HIST 1023, World Civilization Since 1660	3
MATH 1023, College Algebra	3
PE 1002, Concepts of Fitness	2
Select one of the following: PHSC 1203 **AND** 1201, Physical Science and Laboratory CHEM 1013 **AND** 1011, General Chemistry I and Laboratory PHYS 2054, General Physics I	4
Select one of the following: HIST 2763, The United States To 1876 HIST 2773, The United States Since 1876 POSC 2103, Introduction to United States Government	3
Select one of the following: PSY 2013, Introduction to Psychology ANTH 2233, Introduction to Cultural Anthropology ECON 2333, Economic Issues and Concepts ECON 2313, Principles of Macroeconomics	3
Sub-total	**31**
Major Requirements:	**Sem. Hrs.**
COMS 1203, Oral Communication	3
CRIM 1023, Introduction to Criminal Justice	3
CRIM 2043, Community Relations	3
CRIM 2263, Criminal Evidence and Procedure	3
CRIM 3223, Police and Society	3
CRIM 3263, Criminology **OR** CRIM 3323, Juvenile Delinquency	3
HLTH 2522, First Aid and Safety	2
POSC 3113, American Municipal Government	3
SOC 2213, Introduction to Sociology	3
Criminology Elective	3
Sub-total	**29**
Electives:	**Sem. Hrs.**
Electives	**2**
Total Required Hours:	**62**

Department of English and Philosophy

Associate Professor Janelle Collins, Chair
Professors: *Ball, Calloway, Cave, Hansen, Lamm, Lott, Moore, Spikes, Schichler*
Associate Professors: *Burns, Chappel-Traylor, Hendershot, Narey, Sartorelli*
Assistant Professors: *Barrett-Fox, Caton, Costello, Krueger, Lecky, Horneker, Merritt, Weimer*
Instructors: *Bridges, Duclos, Patton, Tribbett, C. Williams, G. Williams, Young*

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 CENTER

The department offers a special free service to students at all levels: a writing center 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:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENG 1023, Making Connections Humanities	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem Hrs.**
Foreign Language *Refer to Foreign Language Requirement in College of Humanities and Social Sciences.*	**0-12**
Major Requirements:	**Sem. Hrs.**
ENG 2103, Introduction to Poetry and Drama	3
ENG 2113, Introduction to Fiction	3
British Literature (select three of the following): *Students must select either ENG 3223 or ENG 3263. Students must select at least one course from British literature before 1800 and at least one course from British literature since 1800.* ENG 3223, British Literature to 1800 ENG 3263, British Literature since 1800 ENG 3233, Shakespeare ENG 3243, British Drama to 1800 ENG 3293, British Novel ENG 4183, Renaissance Drama Excluding Shakespeare ENG 4213, Medieval Literature ENG 4223, Milton ENG 4233, Sixteenth-Century Literature ENG 4243, Seventeenth-Century Literature ENG 4253, Restoration and Neoclassical Literature ENG 4263, Romantic Literature ENG 4273, Victorian Literature ENG 4283, Modern British Literature	9
American Literature (select two of the following): *Students must take either ENG 3323 or ENG 3363.* ENG 3323, American Literature to 1865 ENG 3363, American Literature since 1865 ENG 3373, Regional American Literature ENG 3393, American Novel ENG 4333, American Romanticism ENG 4353, American Realism and Naturalism ENG 4373, Modern American Literature	6
Multicultural Literature (select one of the following): ENG 3633, Native American Verbal Art ENG 3643, African-American Folklore ENG 4363, African-American Literature ENG 4383, Multi-Ethnic American Literature ENG 4453, Women Writers	3
Global Literature: ENG 3453, World Literature **OR** ENG 3473, Contemporary Literature	3
Theory ENG 3103, Introduction to Contemporary Literary Theory	3

Major in English (cont.)

Bachelor of Arts

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

Writing and Language (select one of the following): ENG 3003, Advanced Composition ENG 3023, Creative Writing ENG 3613, Introduction to Folklore ENG 4023, Advanced Creative Writing ENG 4053, The English Language ENG 4063, Comparative Modern Grammars ENG 4083, Introduction to Linguistics ENG 4113, Genre Studies ENG 4623, Mythology	3
Upper-level English Elective	3
Optional Concentration in Writing: *Students electing to complete the B.A. in English with the Optional Concentration in Writing must take one writing course as part of the "Writing, and Language" requirement for all majors. They must also complete the three upper-level writing courses listed below.* *ENG 3003, Advanced Composition* *ENG 3023, Creative Writing* *ENG 4023, Advanced Creative Writing*	**0-9**
Sub-total	**36-45**
Electives:	**Sem. Hrs.**
Electives *English B.A. majors are encouraged to develop a strong outside area of concentration.*	**25-46**
Total Required Hours:	**120**

Major in English

Bachelor of Science in Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENG 1023, Making Connections Humanities	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem Hrs.**
American literature	6
British literature	3
ENG 2103, Introduction to Poetry and Drama	3
ENG 2113, Introduction to Fiction	3
ENG 3003, Advanced Composition	3
ENG 3233, Shakespeare **OR** ENG 3243, British Drama before 1880	3
ENG 3583, Literature for Adolescents	3
ENG 4053, The English Language **OR** ENG 4083, Introduction to Linguistics	3
ENG 4063, Comparative Modern Grammars	3
ENG 4043, Theory in the Teaching of Composition	3
Upper-level English Electives	6
Sub-total	**39**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section. B.S.E. English majors seeking admission to the Teacher Education Program will be required to demonstrate writing competency at the time of their screening. One of the literature courses must be either multicultural in nature or have a strong multicultural component.	**Sem. Hrs.**
*EDEN 4553, Methods and Materials for Teaching English in the Secondary School	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Instructional Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TIEN 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**
Additional General Requirements for Teacher Education:	**Sem Hrs.**
HLTH 2513, Principles of Personal Health	**3**
Electives:	**Sem Hrs.**
Electives	**8**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Philosophy

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENG 1023, Making Connections Humanities	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem Hrs.**
Foreign Language *Refer to Foreign Language Requirement in College of Humanities and Social Sciences.*	**0-12**
Major Requirements:	**Sem. Hrs.**
PHIL 1103, Introduction to Philosophy	0-3
PHIL 1503, Logic and Practical Reasoning	3
History of Philosophy (select two of the following): PHIL 3213, History of Ancient and Medieval Philosophy PHIL 3223, History of Modern Philosophy PHIL 4213, Contemporary Philosophy	6
Epistemology/Metaphysics (select one of the following): PHIL 3403, Theory of Knowledge PHIL 3423, Philosophy of Science PHIL 4403, Metaphysics	3
Ethics/Value Theory (select one of the following): PHIL 3713, Ethics in the Health Professions PHIL 3723, Computers, Ethics, and Society PHIL 4703, Contemporary Ethics PHIL 4723, Aesthetics	3
Upper-level Philosophy Electives	12
Sub-total	**27-30**
Electives:	**Sem. Hrs.**
Electives	**40-55**
Total Required Hours:	**120**

Department of English and Philosophy Minors

Minor in Cognitive Science

Completion of the minor will require eighteen hours in courses related to cognition, learning, development and the mind - at least nine of which must be upper-level courses, and no more than six of which are in the student's major. Students must also complete courses from two of the three main research areas of Psychology, Philosophy and Biology.

Required Courses:	Sem. Hrs.
PHIL 2403, Introduction to Cognitive Science	3
Select fifteen hours from the following: BIO 3033, Evolution BIO 3323 **AND** 3231, Animal Physiology and Laboratory BIO 4133 **AND** 4131, Cell Biology and Laboratory ECH 4033, Learning and Development of Young Children PHIL 4403, Metaphysics PHIL 4443, Philosophy of Mind POSC 4003, Political Psychology PSY 3043, Child Psychology PSY 3303, Motivation PSY 3413, Adolescent Psychology PSY 3453, Developmental Psychology PSY 4323, Physiological Psychology PSY 4363, Cognitive Psychology SOC 3293, Social Behavior SOC 4213, Sociology of Childhood and Adolescence	15
Total Required Hours:	**18**

Minor in English

Required Courses:	Sem. Hrs.
ENG 2103, Introduction to Poetry and Drama	3
ENG 2113, Introduction to Fiction	3
English elective in British Literature	3
English elective in American Literature	3
Upper-level Electives in English	6
Total Required Hours:	**18**

Minor in Folklore Studies

Required Courses:	Sem. Hrs.
ENG 3613, Introduction to Folklore	3
ENG 4643, Independent Fieldwork in Folklore	3
Folklore Studies electives (select four of the following): ENG 3623, American Folklore ENG 3633, Native American Verbal Art ENG 3643, African-American Folklore ENG 4613, Ballad and Folksong ENG 4623, Mythology ENG 4633, Material Folk Culture	12
Total Required Hours:	**18**

Department of English and Philosophy Minors

Minor in History and Philosophy of Science and Technology

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

Required Courses:	Sem. Hrs.
Select one of the following: PHIL 3423, Philosophy of Science PHIL 3713, Ethics in the Health Professions PHIL 3723, Computers, Ethics, and Society PHIL 4733, Environmental Ethics	3
Select one of the following: HIST 3323, United States Environmental History HIST 4553, History of Medicine HIST 4563, Plagues and Pestilence in World History	3
Select one of the following: BIOL 4023, History of Biological Ideas BIO 404V, Special Topics CHEM 4393, Special Topics PHYS 4393, Special Topics	3
Select nine additional hours from the courses above.	9
Total Required Hours:	**18**

Minor in Philosophy

Required Courses:	Sem. Hrs.
PHIL 1103, Introduction to Philosophy	3
PHIL 1503, Logic and Practical Reasoning	3
Upper-level Elective in History of Philosophy	3
Upper-level Electives in Philosophy	9
Total Required Hours:	**18**

Minor in Religious Studies

Required Courses:	Sem. Hrs.
ENG 1643, Introduction to Religion	3
Select fifteen hours from the following: ART 4553, Early Christian through Gothic Art History ENG 3483, The Bible as Literature ENG 4623, Mythology HNRS 4213 (Seminar) The Western Religious Experience PHIL 3313, Philosophy of Religion PHIL 3623, Eastern Philosophy SOC 3363, Sociology of Religion SW 4363, Religion and Spirituality in Social Work Practice	15
Total Required Hours:	**18**

Department of English and Philosophy Minors

Minor in Writing Studies

Required Courses (General Track): BSE - English students may substitute EDEN 4553, Methods and Materials for Teaching English in the Secondary School for the Preceptorship and Internship. THEA 4313 and CMP 3403 cannot be used by students majoring in the College of Media & Communication to fulfill this minor.	**Sem. Hrs.**
ENG 3033, Introduction to Writing Studies	3
ENG 4711, Preceptorship in Writing Studies	1
ENG 4722, Internship in Writing Studies	2
Elective from Professional Writing Track *(ENG 3003, ENG 3013, ENG 3043, ENG 3053 or ENG 4703)*	3
Elective from Creative Writing Track *(ENG 3023, ENG 4023, THEA 4313, or CMP 3403)*	3
Electives in Writing Studies	6
Total Required Hours:	**18**

Required Courses (Creative Writing Track): BSE - English students may substitute EDEN 4553, Methods and Materials for Teaching English in the Secondary School for the Preceptorship and Internship. THEA 4313 and CMP 3403 cannot be used by students majoring in the College of Media & Communication to fulfill this minor.	**Sem. Hrs.**
ENG 3033, Introduction to Writing Studies	3
ENG 3023, Creative Writing **OR** ENG 4023, Advanced Creative Writing *(Courses may be repeated with various topics; may also include either THEA 4313 Fundamentals of Playwriting or CMP 3403 Screenwriting for Narrative Motion Pictures)*	9
ENG 4711, Preceptorship in Writing Studies	1
ENG 4722, Internship in Writing Studies	2
Elective in Writing Studies	3
Total Required Hours:	**18**

Required Courses (Professional Writing Track): BSE - English students may substitute EDEN 4553, Methods and Materials for Teaching English in the Secondary School for the Preceptorship and Internship.	**Sem. Hrs.**
ENG 3003, Advanced Composition	3
ENG 3013, Practical Writing	3
ENG 3033, Introduction to Writing Studies	3
ENG 3043, Technical Writing	3
ENG 4711, Preceptorship in Writing Studies	1
ENG 4722, Internship in Writing tudies	2
Elective in Writing Studies	3
Total Required Hours:	**18**

Department of English and Philosophy Minors

Minor in Women and Gender Studies

Required Courses:	Sem. Hrs.
Select eighteen hours from the following: *At least nine hours must be upper-level courses, and no more than six may be in the student's major.* WGS 3003, Sociology of Gender WGS 3213, Sociology of Intimate Relationships WGS 3333, Women's Health: Past, Present, Future WGS 3693, United States Women's History WGS 3773, Topics in Feminist Philosophy WGS 4323, Race, Gender and Media WGS 4453, Women Writers WGS 4473, U.S. Southern Women's History WGS 4483, History of Sexuality in America WGS 4743, Social and Political Philosophy WGS 4763, Philosophy of Sex	18
Total Required Hours:	**18**

Department of History

Associate Professor Joseph Key, Chair
Professors: *Gilbert, Rousey, Sydorenko, Wilkerson-Freeman*
Associate Professors: *Banta, Edwards, Hogue, Hronek, Hu, Jones-Branch, Maynard, Pobst,*
Assistant Professors: *Castro, Salo, Saunders*

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

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

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

Major in History

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
HIST 1003, Making Connections / Legal Professions	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *Twelve hours of Social Sciences or six hours of Humanities. (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem Hrs.**
Foreign Language *Refer to Foreign Language Requirement in College of Humanities and Social Sciences.*	**0-12**
Major Requirements:	**Sem. Hrs.**
HIST 1013 **AND** HIST 1023 *One course may also be counted in General Education.*	3-6
HIST 2763 **AND** HIST 2773 *One course may also be counted in General Education.*	3-6
HIST 3333, The Practice of History	3
HIST 4803, Senior History Seminar	3
Elective History Courses (at least nine hours must be at the 4000 level):	
Upper-level United States History electives	9
Upper-level European History electives	6
Upper-level World History electives	6
Upper-level History electives	6
Sub-total	**39-45**
Electives:	**Sem. Hrs.**
Electives *The Department of History recommends that its majors select minors in fields approved by their academic advisors.*	**25-43**
Total Required Hours:	**120**

Major in Social Science

Bachelor of Science in Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
HIST 1003, Making Connections / Legal Professions	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *HIST 1013, World Civilization To 1660* ***OR*** *HIST 1023, World Civilization Since 1660* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *SOC 2213, Introduction to Sociology (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem Hrs.**
HIST 3083, Arkansas History	3
HIST 3333, The Practice of History	3
HIST 4312, Computer Technologies for the History/Social Sciences Educator	2
POSC 3193, Arkansas Government and Politics	3
Economics elective	3
Geography electives	6
Upper-level Political Science elective	3
Sociology elective	3
United States History electives *Must include HIST 2763 and 2773 and 9 hours of upper-level courses.*	15
World History electives *Must include HIST 1013 or HIST 1023 and 6 hours of upper-level courses.*	9
Sub-total	**50**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section. All BSE Social Science candidates must take the appropriate Praxis Series Exams required for licensure in Arkansas and report their test results to the Department of History before graduation.	**Sem. Hrs.**
*EDSS 4603, Methods and Materials for Teaching Social Studies in the Secondary School	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Instructional Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TIHI 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**
Total Required Hours:	**120**

Department of History Minors

Minor in History

Required Courses:	Sem. Hrs.
History Electives	6
Upper-level United States History Electives	6
Upper-level European or World History Electives	6
Total Required Hours:	**18**

Minor in United States History

Required Courses:	Sem. Hrs.
United States History Electives	6
Upper-level United States History (through 1876) Electives	6
Upper-level United States History (after 1876) Electives	6
Total Required Hours:	**18**

Minor in African-American Studies

Required Courses:	Sem. Hrs.
HIST 3673, African American History I	3
HIST 3683, African American History II	3
Select one of the following: ENG 3643, African American Folklore ENG 4363, African American Literature Survey HIST 3853, The U.S. Civil Rights Movement POSC 3163, Black Politics	3
African-American Studies electives (select three of the following): COMS 4253, Intercultural Communications ENG 3643, African American Folklore ENG 4363, African American Literature Survey ENG 4383, Multi-Ethnic American Literature HIST 3013, Civilizations of Africa HIST 3853, The U.S. Civil Rights Movement MMJ 4323, Race, Gender and Media PHIL 4773, Defining Race POSC 3163, Black Politics POSC 3213, African Political Systems SOC 3353, Minority Groups Other relevant course approved by the African-American Studies minor advisor in the History Department	9
Total Required Hours:	**18**

Minor in Medieval Studies

Required Courses: An Independent Study course approved by major advisor may be substituted for any category (maximum - 3 hours)	**Sem. Hrs.**
HIST 3183, Medieval Europe	3
Select two or three of the following: ARTH 4533, Renaissance Art History ARTH 4553, Medieval Art History ENG 4213, Medieval Literature PHIL 3213, History of Ancient and Medieval Philosophy POSC 3413, Classical and Medieval Political Theory	6-9
Select two or three of the following: HIST 3193, The Crusades HIST 3223, Renaissance and Reformation Europe HIST 4213, History of England, 55 B.C. to A.D. 1689 HIST 4243, The Vikings HIST 4593, Special Topics in World History (as approved by major advisor)	6-9
Total Required Hours:	**18**

Minor in Modern European Studies

Required Courses:	**Sem. Hrs.**
GEOG 3713, Geography of Europe and the Former USSR Lands	3
POSC 3223, European Political Systems	3
Select three of the following: HIST 3253, Modern Europe, 1750-1870 HIST 3273, Age of Crisis: Europe, 1870 To Present HIST 3283, Society and Thought in Europe HIST 4123, Soviet Russia HIST 4223, History of Great Britain 1688-1982	9
Select one of the following: ENG 3263, British Literature since 1800 ENG 4283, Modern British Literature FR 3613, French Civilization GER 3173, German Civilization PHIL 3223, History of Modern Philosophy History course from the list above	3
Total Required Hours:	**18**

Department of Political Science

Associate Professor William McLean, Chair
Professors: *Reese*
Associate Professors: *Harding, Hacker, Tusalem, Wang*
Assistant Professors: *Ausderan, Buzby, Levenbach, Warner*
Instructors: *Hilson*

The Department of Political Science provides students with the information and the intellectual stimulus needed to cope with the problems of modern politics.

A concrete orientation toward specific careers is provided by a program of coursework that prepares students for law school as well as careers in politics, public and foreign service, teaching, journalism, and business. Individual courses focus on urban, state, national, and international government—the executive, judicial, and legislative branches; the politics of Europe, Africa, Mideast, and East Asia; and the theoretical presuppositions underlying political differences within and between nations.

Major in Political Science

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
POSC 1103, Making Connections: Politics and Law	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *Nine hours of Arts or Humanities (Required Departmental Gen. Ed. Option) including the following:* *PHIL 1103, Introduction to Philosophy.* ***NOTE: POSC 2103 will NOT be accepted to fulfill General Education Requirements in this major.***	**35**
Language Requirement:	**Sem Hrs.**
Foreign Language *Refer to Foreign Language Requirement in College of Humanities and Social Sciences.*	**0-12**
Major Requirements:	**Sem. Hrs.**
POSC 2103, Introduction to United States Government	3
POSC 3003, Introduction to Political Analysis	3
*Upper-level Political Science Electives *Students must take at least one upper-level course in each of the following areas: American Politics, Comparative Politics, International Relations, Political Theory, Public Administration, and Public Law. Concentration in one of these areas is expected.*	36
Sub-total	**42**
Electives:	**Sem. Hrs.**
Electives	**28-40**
Total Required Hours:	**120**

Department of Political Science Minors

Minor in Political Science

Required Courses:	Sem. Hrs.
Political Science Electives *May not include POSC 2103, Introduction to United States Government*	6
Upper-level Political Science Electives	12
Total Required Hours:	**18**

Minor in Homeland Security and Disaster Preparedness

The minor in Homeland Security and Disaster Preparedness is a multidisciplinary program offered in the College of Nursing and Health Professions and the College of Humanities and Social Sciences. The structure of the minor provides specialized training within each of three tracks. The introductory and capstone course provide the common framework necessary for the integration of these fields and the cooperative efforts of the specialists working within them.

Required Courses:	Sem. Hrs.
DPEM/NRS/POSC 4553, Capstone in Homeland Security and Disaster Preparedness	3
NRS 3503, Principles of Disaster Preparedness and Emergency Management	3
Select three courses from within a single track: **Track 1: Healthcare in Homeland Security and Emergency Preparedness** NRS 4513, Physical Care of Chemical, Biological, Radiologic, Nuclear and Explosive Injuries NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness NRS 4533, Disaster Mental Health SW 4203, Crisis Intervention **Track 2: Disaster Preparedness, Response and Operations Management** POSC 4513, Disaster Response - Operations and Management PR 4603, Crisis Communication SOC 4343, GIS for Social Sciences POSC 4133, Intergovernmental Relations and Federalism in an Era of Insecurity **Track 3: Sociocultural & Political Disaster Preparedness** SOC 3363, Sociology of Religion OR SW 4363, Religion and Spirituality in Social Work Practice SOC 4003, Perspectives on Death and Dying SOC 4063, Sociology of Disasters SOC 4263, Terrorism as a Social Movement	9
Select one course from one of the other two tracks.	3
Total Required Hours:	**18**

Department of World Languages and Cultures

Associate Professors: *Johnson, Lombeida, Owens, Unnold*
Assistant Professors: *Bernales, McGee, Moreno*
Instructors: *Eduardo Pinto*

The Department of World Languages and Cultures offers courses in 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 studies 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 primary and secondary education.

Major in World Languages and Cultures

Bachelor of Arts
Emphasis in French

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENG 1023, Making Connections Humanities	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements. At least 12 credit hours must be at the 4000 level. A minimum of six credit hours of study abroad is required.	**Sem. Hrs.**
FR 3183, French Conversation and Phonetics	3
FR 3413, Introduction to French Literature	3
FR 3463, Advanced French Grammar	3
FR 3473, Reading and Composition in French	3
Select twenty-seven hours from the following: FR 3613, French Civilization FR 3623, Contemporary France FR 3703, French for International Business FR 4203, Advanced Oral Communication in French FR 4413, Survey of French Literature I FR 4423, Survey of French Literature II FR 4503, Special Topics (may be repeated for credit if content varies) Any additional French electives or pre-approved study abroad or up to three courses related to the target language or culture not taught in the target language (requires advisor approval)	27
WLAN 4010, Learning Outcome Assessment	0
Sub-total	**39**
Electives:	**Sem. Hrs.**
Electives	**43**
Total Required Hours:	**120**

Major in World Languages and Cultures

Bachelor of Arts
Emphasis in Spanish

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENG 1023, Making Connections Humanities	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements. At least 12 credit hours must be at the 4000 level. A minimum of six credit hours of study abroad is required.	**Sem. Hrs.**
SPAN 3183, Spanish Conversation	3
SPAN 3413, Introduction to Hispanic Literature	3
SPAN 3463, Advanced Spanish Grammar	3
SPAN 3473, Reading and Composition in Spanish	3
SPAN 4703, Internship in Spanish	3
Select twelve hours from the following: *Minimum one course on the Americas and one course on Spain.* SPAN 3503, Advanced Spanish Seminar (may be repeated for credit if content varies) SPAN 3623, Culture and Civilization, The Americas SPAN 3633, Culture and Civilization, Spain SPAN 4413, Survey of Peninsular Spanish Literature SPAN 4423, Contemporary Peninsular Spanish Literature SPAN 4443, Survey of Latin American Literature SPAN 4503, Special Topics (may be repeated for credit if content varies)	12
Select twelve hours of additional courses not previously taken from the following: SPAN 3013, Spanish Phonetics SPAN 3503, Advanced Spanish Seminar (may be repeated for credit if content varies) SPAN 3703, Spanish for International Business SPAN 4203, Advanced Oral Communication in Spanish Any additional Spanish electives or pre-approved study abroad or maximum one course related to the target language or culture not taught in the target language (requires advisor approval)	12
WLAN 4010, Learning Outcome Assessment	0
Sub-total	**39**
Electives:	**Sem. Hrs.**
Electives	**43**
Total Required Hours:	**120**

Major in World Languages and Cultures

Bachelor of Science in Education
Emphasis in French

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENG 1023, Making Connections Humanities	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *HIST 2763, The U.S. To 1876* ***OR*** *HIST 2773, The U.S. Since 1876* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements. At least 12 credit hours must be at the 4000 level. A minimum of six credit hours of study abroad is required.	**Sem Hrs.**
FR 3183, French Conversation and Phonetics	3
FR 3413, Introduction to Literature	3
FR 3463, Advanced French Grammar	3
FR 3473, Reading and Composition in French	3
Select twenty-seven hours from the following: FR 3613, French Civilization FR 3623, Contemporary France FR 3703, French for International Business FR 4203, Advanced Oral Communication in French FR 4413, Survey of French Literature I FR 4423, Survey of French Literature II FR 4503, Special Topics (may be repeated for credit if content varies) Any additional French electives or pre-approved study abroad	27
WLAN 4010 Learning Outcome Assessment	0
Sub-total	**39**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section. An advisory Oral Proficiency Interview (OPI) must be completed before admission to this teacher education program, and an official OPI must be completed prior to the teaching internship. A level of intermediate-mid must be attained for admission to the teacher education program, and a level of advanced-low must be reached prior to graduation.	**Sem. Hrs.**
*EDLA 4633, Methods and Materials for Teaching Second Languages	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Instructional Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TILA 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**

Major in World Languages and Cultures

Bachelor of Science in Education
Emphasis in French

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

Additional Requirements for Teacher Education:	**Sem. Hrs.**
COMS 1203, Oral Communication	3
Electives:	**Sem. Hrs.**
Electives	8
Total Required Hours:	**120**

Major in World Languages and Cultures

Bachelor of Science in Education
Emphasis in Spanish

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
ENG 1023, Making Connections Humanities	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *HIST 2763, The U.S. To 1876* ***OR*** *HIST 2773, The U.S. Since 1876* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *Six hours of Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: Grade of "C" or better required for all Major Requirements. At least 12 credit hours must be at the 4000 level. A minimum of six credit hours of study abroad is required.	**Sem Hrs.**
SPAN 3183, Spanish Conversation	3
SPAN 3413, Introduction to Hispanic Literature	3
SPAN 3463, Advanced Spanish Grammar	3
SPAN 3473, Reading and Composition in Spanish	3
SPAN 4703, Internship in Spanish	3
Select twelve hours from the following: *Minimum one course on the Americas and one course on Spain.* SPAN 3503, Advanced Spanish Seminar (may be repeated for credit if content varies) SPAN 3623, Culture and Civilization, The Americas SPAN 3633, Culture and Civilization, Spain SPAN 4413, Survey of Peninsular Spanish Literature SPAN 4423, Contemporary Peninsular Spanish Literature SPAN 4443, Survey of Latin American Literature SPAN 4503, Special Topics (may be repeated for credit if content varies)	12
Select twelve hours of additional courses not previously taken from the following: SPAN 3013, Spanish Phonetics SPAN 3703, Spanish for International Business SPAN 4203, Advanced Oral Communication in Spanish Any additional Spanish electives or pre-approved study abroad	12
WLAN 4010 Learning Outcome Assessment	0
Sub-total	**39**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section. An advisory Oral Proficiency Interview (OPI) must be completed before admission to this teacher education program, and an official OPI must be completed prior to the teaching internship. A level of intermediate-mid must be attained for admission to the teacher education program, and a level of advanced-low must be reached prior to graduation.	**Sem. Hrs.**
*EDLA 4633, Methods and Materials for Teaching Second Languages	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3

Major in World Languages and Cultures

Bachelor of Science in Education
Emphasis in Spanish

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

*SCED 3515, Performance Based Instructional Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TILA 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**
Additional Requirements for Teacher Education:	**Sem. Hrs.**
COMS 1203, Oral Communication	**3**
Electives:	**Sem. Hrs.**
Electives	**8**
Total Required Hours:	**120**

Department of World Languages and Cultures Minors

Minor in French

Required Courses:	Sem. Hrs.
FR 2023, Intermediate French II	3
Upper-level French Electives	15
Total Required Hours:	**18**

Minor in German

Required Courses:	Sem. Hrs.
GER 2023, Intermediate German II	3
Upper-level German Electives	15
Total Required Hours:	**18**

Minor in Spanish

Required Courses:	Sem. Hrs.
SPAN 2023, Intermediate Spanish II	3
Upper-level Spanish Electives	15
Total Required Hours:	**18**

Minor in International Studies

The Minor in International Studies aims to provide students from across the campus the opportunity to understand better in an interdisciplinary context some of the complexities of our global society. Particularly suited for students in History, Political Science, English, 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.

Required Courses: Any student who completes the necessary courses may declare this minor and have it appear on the transcript. Each Department which offers a course included in the minor will determine for its own majors whether courses taken for a student's minor can also count toward the major.	**Sem. Hrs.**
Select 12 hours from the following (no more than two courses may have the same prefix): ARTH 4443, 19th Century European Art ARTH 430V, Studies in Art History ARTH 4533, Renaissance Art History ARTH 4553, Early Christian through Gothic Art History ARTH 4563, Baroque and Rococo Art COMS 4253, Intercultural Communication ECON/IB 4103, International Trade ENG 3453, World Literature ENG 3613, Introduction to Folklore ENG 4113, Genre Studies FIN/IB 3813, International Financial Mgmt and Banking GEOG 3603, World Regional Geography GEOG 3643, Introduction to Cultural Geography GEOG 3663, Geography of Africa GEOG 3703, Political Geography GEOG/SOC 4223, Urban Geography HIST 3013, Civilizations of Africa HIST 3123, Latin America, The Colonial Period HIST 3133, Latin America, The National Period HIST 3223, Renaissance and Reformation Europe HIST 3253, Modern Europe, 1750-1870 HIST 3273, The Age of Crisis: Europe, 1870 To Present HIST 3283, Society and Thought in Europe HIST 3303, The Modern History of the Middle East HIST 4113, Imperial Russia HIST 4123, Soviet Russia HIST 4133, History of Ancient China HIST 4143, The Rise of Modern China HIST 4213, History of England 55 BC to AD 1689 HIST 4223, History of Great Britain, 1688 To 1982 HIST 4273, History of Mexico HIST 4553, History of Medicine HIST 4593, Special Topics in World History IB 3013, Global Leadership Experience IB 4133, International Law IB 4273, Special Problems INST 4503, Special Topics INST 4803, Independent Study MGMT 4123, International Management MKTG 4113, International Marketing PHIL 3623, Eastern Philosophy POSC 3203, Introduction to Comparative Politics POSC 3213, African Political Systems POSC 3223, European Political Systems POSC 3303, Introduction to International Policies POSC 3313, American Foreign Policy POSC 4223, Middle Eastern Political Systems POSC 4313, International Organization PSY 3613, Cultural Psychology SOC 4273, Population and Demography Other courses approved by International Studies Advisor	12

Department of World Languages and Cultures Minors

Minor in International Studies (cont.)

Select six hours from the following (both courses must have the same prefix): *FR/GER/SPAN 2023, Intermediate II, or equivalent preparation, are prerequisites to all courses. Coursed denoted with an asterisk (*) must feature a topic on related literature or culture.* FR 3413, Introduction to French Literature FR 3613, French Civilization FR 3623, Contemporary France FR 4413, Survey of French Literature I FR 4423, Survey of French Literature II *FR 4503, Special Topics *FR 480V, Independent Study in French GER 3173, German Civilization GER 3413, Introduction to German Literature *GER 480V, Readings in German SPAN 3413, Introduction to Hispanic Literature *SPAN 3503, Advanced Spanish Seminar SPAN 3623, Culture and Civilization: The Americas SPAN 3633, Culture and Civilization: Spain SPAN 4413, Survey of Peninsular Spanish Literature SPAN 4423, Contemporary Spanish Literature SPAN 4443, Survey of Latin American Literature *SPAN 4503, Special Topics *SPAN 480V, Independent Study in Spanish Other courses approved by International Studies Advisor	6
Total Required Hours:	**18**

College of Media and Communication

Professor Brad Rawlins, Dean

The College of Media and Communication offers students the opportunity to combine the best of a broad education in the liberal arts and sciences with the academic and professional preparation required in the wide variety of fields in communications. The college offers four baccalaureate degrees through two departments: The Media Department offers Bachelor of Science degrees in Multimedia Journalism and Creative Media Production, and the Communication Department offers a Bachelor of Science in Strategic Communication and a Bachelor of Arts in Communication Studies. The three Bachelor of Science degrees are 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.

The College of Media and Communication offers students opportunities to apply what they learn in a variety of campus and national student organizations, including: The Herald, ASU-TV, the ASU Debate 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 National Association of Black Journalists, 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 three Bachelor of Science degrees (Multimedia Journalism, Creative Media Production and Strategic Communication) adhere to the learning outcomes espoused by the Accrediting Council on Education in Journalism and Mass Communication. Graduates of these programs should be aware of certain core values and competencies and should be able to:

THINK

We promote problem solving by enhancing students' ability to:

- think critically, creatively and independently;
- think analytically by conducting research and evaluating information using appropriate methods, including applying basic numerical and statistical concepts;
- understand and respect others in a diverse and global society, which includes diversity of gender, race ethnicity, sexual orientation, religion, culture, and national origin.
- understand concepts and apply theories in the use and presentation of messages, images and information;

COMMUNICATE

We promote strong communication skills by demanding students:

- write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve;
- critically evaluate their own work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness;
- apply current tools and technologies appropriate for the communications professions in which they work, and to understand the digital world;
- communicate effectively using words and images for multiple platforms, ranging from interpersonal to digital media.

BE PROFESSIONAL

We promote professional behavior and integrity by reinforcing these principles

- understanding the principles and laws of freedom of speech and press and how they are applied nationally and internationally;
- understanding the history and role of professionals and institutions in shaping communications;
- understanding the professional ethical principles and working ethically in pursuit of truth, accuracy, fairness and diversity;

DEGREE REQUIREMENTS

In addition to meeting the general requirements, candidates for the Bachelor of Science degree in Multimedia Journalism, Creative Media Production, and Strategic Communication must complete the following:

1. Take at least 72 hours outside of the three Bachelor of Science degrees offered in the College of Media and Communication.
2. A minor outside of the College of Media and Communication. The minor must be approved by the student's advisor.
3. Earn no more than three hours of internship credit towards the 120 hours required for graduation.
4. Take a senior exit exam on the study day prior to final exams of his or her last semester of enrollment.
5. Complete an exit survey and submit a resume prior to graduation.

COLLEGE OF MEDIA AND COMMUNICATION CORE COURSES

College of Media and Communication Core Courses:	Sem. Hrs.
CMAC 2053, Introduction to Visual Communications	3
CMAC 3001, Professional Seminar	1
Total Required Hours:	**4**

Department of Media

Professor Osabuohien P. Amienyi, Chair
Professors: *Fears, Pitts*
Associate Professors: *Zeng*
Assistant Professors: *Bowman, Combs, Tait*
Instructors: *Brown, Doyle, Mishra, Pillow, Roberts, Thrasher*

The Department of Media offers Bachelor of Science degrees in Multimedia Journalism and Creative Media Production. Students can emphasize in news editorial, broadcast journalism, photojournalism, sports journalism, audio and video production, multimedia production, narrative media, and sports production.

MULTIMEDIA JOURNALISM PROGRAM:

The multimedia journalism program prepares working journalists and news practitioners to generate, research, write, and produce newsworthy content across the spectrum of news media. Through hands-on instruction, practical workplace experience and conceptual coursework, students learn how to create and distribute content for print, radio, television, digital, interactive, social and mobile media.

Multimedia journalism is designed to develop news judgment and storytelling skills applicable to a variety of professions and media outlets and talent for performance and teamwork. This program builds the foundation on which graduates can establish a career in modern news media across platforms.

CREATIVE MEDIA PRODUCTION PROGRAM:

The creative media production program prepares practitioners for the world of media production, from concept to program completion. Through hands-on instruction and conceptual coursework, students learn how to create and distribute content for radio, television, film, websites and interactive media.

Creative Media Production is designed to nurture students with a passion for storytelling and communicating, and a talent for expressing themselves through visual media. This preparation provides a solid foundation on which to build their careers in a variety of rewarding professions.

DEGREE REQUIREMENTS

Students earning a Bachelor of Science from the Department of Media must complete the following:

1. Take at least 72 hours outside of the three Bachelor of Science degrees offered in the College of Media and Communication.
2. A minor outside of the College of Media and Communication. The minor must be approved by the student's advisor.
3. Earn no more than three hours of internship credit towards the 120 hours required for graduation.
4. Take a senior exit exam on the study day prior to final exams of his or her last semester of enrollment.
5. Complete an exit survey and submit a resume prior to graduation.

Major in Multimedia Journalism

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
MMJ 2013, Multimedia Reporting	3
MMJ 3363, Communications Research	3
MMJ 4053, Advanced Reporting	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6-9
Sub-total	**28-31**
Emphasis Area (Broadcast Journalism):	**Sem. Hrs.**
MMJ 3203, Reporting for Electronic Media	3
MMJ 3403, Electronic News Gathering	3
MMJ 4343, News Production and Performance	3
Sub-total	**9**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-23**
Total Required Hours:	**120**

Major in Multimedia Journalism

Bachelor of Science
Emphasis in Photojournalism

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
MMJ 2013, Multimedia Reporting	3
MMJ 3363, Communications Research	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6-9
Sub-total	**25-28**
Emphasis Area (Photojournalism):	**Sem. Hrs.**
AD 3193, Advanced Photography	3
MMJ 3043, Photography	3
MMJ 3093, Intermediate Photojournalism	3
MMJ 4013, Advanced Photojournalism	3
Sub-total	**12**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-23**
Total Required Hours:	**120**

Major in Multimedia Journalism

Bachelor of Science
Emphasis in News Editorial

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
MMJ 2013, Multimedia Reporting	3
MMJ 3363, Communications Research	3
MMJ 4053, Advanced Reporting	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6-9
Sub-total	**28-31**
Emphasis Area (News Editorial):	**Sem. Hrs.**
MMJ 3043, Photography	3
MMJ 3063, News Editing	3
MMJ 3073, News Design	3
Sub-total	**9**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-23**
Total Required Hours:	**120**

Major in Multimedia Journalism

Bachelor of Science
Emphasis in Sports Reporting

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
MMJ 2013, Multimedia Reporting	3
MMJ 3363, Communications Research	3
MMJ 4053, Advanced Reporting	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6-9
Sub-total	**28-31**
Emphasis Area (Sports Reporting):	**Sem. Hrs.**
CMP 3573, Sports Production	3
MMJ 3053, Sports Reporting	3
MMJ 4573, Sportscasting	3
Sub-total	**9**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-23**
Total Required Hours:	**120**

Major in Creative Media Production

Bachelor of Science
Emphasis in Audio/Video Production

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
CMP 3363, Communications Research	3
CMP 4363, Multimedia Storytelling	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6
Sub-total	**25**
Emphasis Area (Audio/Video Production):	**Sem. Hrs.**
CMP 3313, Audio and Video Production	3
CMP 3343, Advanced Radio Practicum **OR** CMP 4383, Advanced Television Production	3
CMP 3353, Field and Post Production	3
CMP 4353, Corporate Media Production	3
CMP 4483, Broadcast Graphics	3
Sub-total	**15**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-20**
Total Required Hours:	**120**

Major in Creative Media Production

Bachelor of Science
Emphasis in Sports Production

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
CMP 3363, Communications Research	3
CMP 4363, Multimedia Storytelling	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6-9
Sub-total	**25-28**
Emphasis Area (Sports Production):	**Sem. Hrs.**
CMAC 4063, Internship	3
CMP 3573, Sports Production	3
CMP 4563, Sports Programming	3
CMP 4573, Sportscasting	3
Sub-total	**12**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-23**
Total Required Hours:	**120**

Major in Creative Media Production

Bachelor of Science
Emphasis in Narrative Media

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
CMP 3363, Communications Research	3
CMP 4363, Multimedia Storytelling	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6-9
Sub-total	**25-28**
Emphasis Area (Narrative Media):	**Sem. Hrs.**
CMP 3403, Screenwriting for Narrative Motion Pictures	3
CMP 3503, Film Cinematography, Lighting and Editing	3
CMP 4303, Advanced Filmmaking Techniques	3
CMAC 4063, Internship	3
Sub-total	**12**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-23**
Total Required Hours:	**120**

Major in Creative Media Production

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
CMP 2313, Multimedia Production	3
CMP 3363, Communications Research	3
CMP 4363, Multimedia Storytelling	3
MMJ 4123, Media Management and Entrepreneurship	3
College of Media and Communication Electives	6
Sub-total	**25**
Emphasis Area (Graphic Communication):	**Sem. Hrs.**
GCOM 1813, Introduction to Digital Publishing	3
GCOM 2673, Digital Prepress Workflow	3
GCOM 3603, Graphic Production Systems	3
GCOM 3673, Desktop Publishing and Publication Design	3
GCOM 4643, Graphic Communications Management Seminar	3
Sub-total	**15**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-20**
Total Required Hours:	**120**

Department of Media Minors

Minor in Multimedia Journalism

Required Courses:	Sem. Hrs.
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMP 2313, Multimedia Production	3
MMJ 2013, Multimedia Reporting	3
Nine hours of upper-level electives offered in Multimedia Journalism	9
Total Required Hours:	**19**

Minor in Creative Media Production

Required Courses:	Sem. Hrs.
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMP 2313, Multimedia Production	3
Three hours of electives offered in Creative Media Production	3
Nine hours of upper-level electives offered in Creative Media Production	9
Total Required Hours:	**19**

Department of Communication

Associate Professor Marceline Hayes, Interim Chair
Professors: *Fowler*
Associate Professors: *Hill*
Assistant Professors: *Clark, Hall, Harper, Pan, Randle, Thatcher*
Instructors: *Moskal, Scott*

The Department of Communication offers a Bachelor of Arts in Communication Studies and a Bachelor of Science in Strategic Communication. Students can emphasize in advertising or public relations in the Strategic Communication Program. Students may choose an optional emphasis in public communication, interpersonal communication, or organizational communication in the Communication Studies program.

COMMUNICATION STUDIES PROGRAM:

Communication Studies focuses on the ways that people make use of both verbal and nonverbal messages to generate meanings within various contexts, cultures, and media. Since 75% of a person's day is spent communicating in some way, the importance of being able to communicate clearly cannot be overemphasized. Communication skills are essential to personal satisfaction and academic success, as well as employment.

Courses provide a strong theoretical foundation in communication as well as an emphasis on improvement in practical communication skills. Majors in Communication Studies have the flexibility to focus on specific areas of interest while obtaining a thorough understanding of communication. Students may also choose to become involved with departmental activities such as the debate team or Lambda Pi Eta, the national honor society for communication students.

STRATEGIC COMMUNICATION PROGRAM:

Strategic Communication uses public relations, advertising, social media, and organizational communication to build mutually beneficial relationships with key stakeholders. Effective organizations use strategic communication to help achieve their goals and objectives and recognize that groups inside and outside the organizations are critical to their success. Communication is strategic when it uses research and evaluation to determine how goals and objectives are effectively reached.

Students graduating from this program will know and understand how to use advertising, public relations, social media, branding, crisis communication, media relations, research methods and evaluation tools to help organizations communicate with their publics. They will be prepared to work for companies big and small, governmental agencies, and nonprofit organizations such as universities, hospitals, museums and NGOs.

Students earning a Bachelor of Science in Strategic Communication must complete the following:

1. Take at least 72 hours outside of the three Bachelor of Science degrees offered in the College of Media and Communication.
2. A minor outside of the College of Media and Communication. The minor must be approved by the student's advisor.
3. Earn no more than three hours of internship credit towards the 120 hours required for graduation.
4. Take a senior exit exam on the study day prior to final exams of his or her last semester of enrollment.
5. Complete an exit survey and submit a resume prior to graduation.

Major in Communication Studies

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
COMS 2313, Communication Theory	3
COMS 2243, Principles of Argumentation	3
COMS 2373, Introduction to Interpersonal Communication	3
COMS 3363, Communication Research Methods	3
Communication Studies Electives (15 hours must be upper-level) AD 3023, Principles of Advertising COMS 2253, Introduction to Health Communication COMS 3203, Business and Professional Communication COMS 3243, Principles of Persuasion COMS 3253, Principles of Listening COMS 3373, Gender Communication COMS 3433, Communication Criticism COMS 4203, Small Group Communication COMS 4243, Interpersonal Communication COMS 4253, Intercultural Communication COMS 4263, Organizational Communication COMS 431V, Special Problems COMS 4323, Communication in Personal Relationships COMS 4373, Conflict Resolution COMS 4383, Computer Mediated Communication COMS 4403, Health Communication COMS 4423, Narratives in Health and Healing PR 3003, Principles of Public Relations PR 4603, Crisis Communication	18
Sub-total	**30**
Electives:	**Sem. Hrs.**
Electives	**48**
Total Required Hours:	**120**

Major in Communication Studies

Bachelor of Arts
Emphasis in Interpersonal Communication
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
COMS 2313, Communication Theory	3
COMS 2243, Principles of Argumentation	3
COMS 2373, Introduction to Interpersonal Communication	3
COMS 3363, Communication Research Methods	3
Communication Studies Electives (6 hours must be upper-level) AD 3023, Principles of Advertising COMS 2253, Introduction to Health Communication COMS 3203, Business and Professional Communication COMS 3243, Principles of Persuasion COMS 3253, Principles of Listening COMS 3373, Gender Communication COMS 3433, Communication Criticism COMS 4203, Small Group Communication COMS 4243, Interpersonal Communication COMS 4253, Intercultural Communication COMS 4263, Organizational Communication COMS 431V, Special Problems COMS 4323, Communication in Personal Relationships COMS 4373, Conflict Resolution COMS 4383, Computer Mediated Communication COMS 4403, Health Communication COMS 4423, Narratives in Health and Healing PR 3003, Principles of Public Relations PR 4603, Crisis Communication	9
Sub-total	**21**
Emphasis Area (Interpersonal Communication):	**Sem. Hrs.**
COMS 4243, Interpersonal Communication	3
COMS 4323, Communication in Personal Relationships	3
COMS 4373, Conflict Resolution	3
COMS 4403, Seminar in Health Communication	3
Sub-total	**12**
Electives:	**Sem. Hrs.**
Electives	**45**
Total Required Hours:	**120**

Major in Communication Studies

Bachelor of Arts
Emphasis in Organizational Communication
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
COMS 2313, Communication Theory	3
COMS 2243, Principles of Argumentation	3
COMS 2373, Introduction to Interpersonal Communication	3
COMS 3363, Communication Research Methods	3
Communication Studies Electives (6 hours must be upper-level) AD 3023, Principles of Advertising COMS 2253, Introduction to Health Communication COMS 3203, Business and Professional Communication COMS 3243, Principles of Persuasion COMS 3253, Principles of Listening COMS 3373, Gender Communication COMS 3433, Communication Criticism COMS 4203, Small Group Communication COMS 4243, Interpersonal Communication COMS 4253, Intercultural Communication COMS 4263, Organizational Communication COMS 431V, Special Problems COMS 4323, Communication in Personal Relationships COMS 4373, Conflict Resolution COMS 4383, Computer Mediated Communication COMS 4403, Health Communication COMS 4423, Narratives in Health and Healing PR 3003, Principles of Public Relations PR 4603, Crisis Communication	9
Sub-total	**21**
Emphasis Area (Organizational Communication):	**Sem. Hrs.**
COMS 3203, Business and Professional Communication	3
COMS 4203, Small Group Communication	3
COMS 4263, Organizational Communication	3
COMS 4443, Leadership and Communication	3
Sub-total	**12**
Electives:	**Sem. Hrs.**
Electives	**45**
Total Required Hours:	**120**

Major in Communication Studies

Bachelor of Arts
Emphasis in Public Communication

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
COMS 2313, Communication Theory	3
COMS 2243, Principles of Argumentation	3
COMS 2373, Introduction to Interpersonal Communication	3
COMS 3363, Communication Research Methods	3
Communication Studies Electives (6 hours must be upper-level) AD 3023, Principles of Advertising COMS 2253, Introduction to Health Communication COMS 3203, Business and Professional Communication COMS 3243, Principles of Persuasion COMS 3253, Principles of Listening COMS 3373, Gender Communication COMS 3433, Communication Criticism COMS 4203, Small Group Communication COMS 4243, Interpersonal Communication COMS 4253, Intercultural Communication COMS 4263, Organizational Communication COMS 431V, Special Problems COMS 4323, Communication in Personal Relationships COMS 4373, Conflict Resolution COMS 4383, Computer Mediated Communication COMS 4403, Health Communication COMS 4423, Narratives in Health and Healing PR 3003, Principles of Public Relations PR 4603, Crisis Communication	9
Sub-total	**21**
Emphasis Area (Public Communication):	**Sem. Hrs.**
COMS 3243, Principles of Persuasion	3
COMS 3433, Communication Criticism	3
COMS 4253, Intercultural Communication	3
COMS 431V, Special Problems	3
Sub-total	**12**
Electives:	**Sem. Hrs.**
Electives	**45**
Total Required Hours:	**120**

Major in Strategic Communication

Bachelor of Science
Emphasis in Advertising

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
AD 4003, Account Planning & Management **OR** COMS 3363, Communication Research	3
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
PRAD 3143, Strategic Writing	3
PRAD 3553, Strategic Visual Communications **OR** PRAD 4213, Social Media in Strategic Communications	3
Sub-total	**16**
Communications Electives or Specialization:	**Sem. Hrs.**
Communications Electives/Specializations (see advisor for additional information)	**9**
Emphasis Area (Advertising):	**Sem. Hrs.**
AD 3023, Principles of Advertising	3
AD 3033, Advertising Elements and Execution	3
AD 3333, Media Advertising and Sales	3
AD 4033, Advertising Case Studies & Campaigns	3
PR 3003, Public Relations Principles **OR** PR 4113, Integrated Marketing Communications	3
Sub-total	**15**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-20**
Total Required Hours:	**120**

Major in Strategic Communication

Bachelor of Science
Emphasis in Public Relations

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *CMAC 1003, Mass Communication in Modern Society* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
College of Media and Communication Core Courses:	**Sem. Hrs.**
(See Beginning of Media and Communication Section)	**4**
Major Requirements:	**Sem. Hrs.**
AD 4003, Account Planning & Management **OR** COMS 3363, Communication Research	3
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
CMAC 4073, Communications Law and Ethics	3
PRAD 3143, Strategic Writing	3
PRAD 3553, Strategic Visual Communications **OR** PRAD 4213, Social Media in Strategic Communications	3
Sub-total	**16**
Communications Electives or Specialization:	**Sem. Hrs.**
Communications Electives/Specializations (see advisor for additional information)	**9**
Emphasis Area (Public Relations):	**Sem. Hrs.**
AD 3023, Principles of Advertising **OR** PR 4113, Integrated Marketing Communications	3
PR 3003, Principles of Public Relations	3
PR 3013, Public Relations Tools & Techniques	3
PR 4013, Public Relations Practicum and Professional Development	3
PR 4033, Public Relations Case Studies and Campaigns	3
Sub-total	**15**
Minor:	**Sem. Hrs.**
Must be outside of the College of Media and Communication and approved by advisor.	**18-21**
Electives:	**Sem. Hrs.**
Electives	**17-20**
Total Required Hours:	**120**

Department of Communication Minors

Minor in Communication Studies

Required Courses:	Sem. Hrs.
COMS 1203, Oral Communication	3
COMS 2313, Communication Theory	3
COMS 2243, Principles of Argumentation	3
COMS 2373, Introduction to Interpersonal Communication	3
COMS 3363, Human Communication Research Methods	3
Upper-level Communication Studies Elective	3
Total Required Hours:	**18**

Minor in Strategic Communication

Required Courses:	Sem. Hrs.
AD 3023, Principles of Advertising	3
CMAC 1001, Media Grammar and Style	1
CMAC 2003, Media Writing	3
PR 3003, Principles of Public Relations	3
Nine hours of upper-level electives from Strategic Communication or chosen from the Communications Studies courses below: COMS 3243, Principles of Persuasion COMS 4203, Small Group Communication COMS 4263, Organizational Communication COMS 4373, Conflict Resolution COMS 4403, Health Communication	9
Total Required Hours:	**19**

College of Nursing and Health Professions

Professor Susan Hanrahan, Dean
Associate Professor Angela Schmidt, Associate 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, health studies, magnetic resonance imaging (MRI), nutritional science, 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, physical therapy, and social work) 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 Accreditation Commission for Education in Nursing (ACEN) (3343 Peachtree Rd NE, Suite 850, Atlanta, GA 30326; (404) 975-5000; www.acenursing.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, 773-714-8880. Graduates of these programs are eligible for the national certifying examinations in their specialty through the American Society of Clinical Pathologists.

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.

The Coordinated Program in Dietetics has been granted candidate status by the Accreditation Council for Education in Nutrition and Dietetics, Academy of Nutrition and Dietetics, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-0040 ext 5400.

Both the Doctor of Physical Therapy (DPT) 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, Radiation Therapy, and MRI programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 900, Chicago, IL, 60606-2901. Graduates are eligible to sit for the national certifying examination of the American Registry of Radiologic Technologists. The Nuclear Medicine Program is accredited by the Joint Review Committee on Education in Nuclear Medicine Technology. The Diagnostic Medical Sonography Program is accredited by the Joint Review Committee for Education in Diagnostic Medical Sonography.

The Social Work Program is accredited by the Council on Social Work Education, CSWE, 1725 Duke Street, Suite 500, Alexandria, VA 22314-3457, 703-683-8099.

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

APPLICATION POLICIES AND PROCEDURES

Admission to Arkansas State University does not automatically admit one to the programs offered by the College of Nursing and Health Professions. The college has a selective admissions policy due to professional requirements and limited clinical sites for placement of students. **All remediation requirements must be completed prior to beginning the professional component of any Nursing or Health Professions program.**

For a listing of the criteria used by admission committees in selecting students for the various programs, contact the appropriate department chair or program director (Nursing 972-3074; Clinical Laboratory Sciences 680-8596; Radiologic Sciences 972-3073; Physical Therapy 972-3591; Communication Disorders 972-3106; Social Work 972-3984; Nutritional Science 680-8598.) Courses in clinical laboratory sciences, physical therapist assistant, radiologic sciences, radiologic technology, nursing, and nutritional science (with the exception of NS 2203, NRS 3353, NRS 3333, NRS 4393, NRS 2392 and NRSP 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 or website. 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

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.

Clinical Laboratory Sciences - Bachelor of Science
April 15 of the sophomore year for the junior-senior clinical years. Prior to this time the student is enrolled in the clinical laboratory science program as a pre-clinical laboratory scientist major.
Clinical Laboratory Sciences - Associate 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 pre-clinical laboratory technician major.
Communication Disorders - Bachelor of Science
No deadlines. Admission to the undergraduate communication disorders program requires the following: 3.2 or better GPA for BIO 2223 and 2201, PSY 2013, CD 2653, CD 2104, CD 2203, and PHSC 1201 and 1203 (or other approved physical science options with lab.) Repeated courses will be included in the calculation of the GPA; “C” or better in ENG 1003, ENG 1013; “B” or better in MATH 1023; 2.75 or better overall GPA; fifteen (15) clock-hours of documented, prescribed observation; a speech and hearing screening; and a minimum of 30 hours of earned academic credit.
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.
Imaging Specialist - Bachelor of Science in Radiologic Sciences
Clinical Specialties are offered in Mammography, Computed tomography, and General Radiography. Admission is granted at the beginning of each semester. Only applicants who have 1) completed the associate degree in Radiologic Technology from a school approved by the American Registry of Radiologic Technologists OR 2) 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 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) references. 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

April 1 for Summer I 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.

Bachelor of Science in Nursing

June 15 for Fall enrollment in sophomore nursing courses and the LPN to BSN track. November 15 and June 15 for transfer/admission/readmissions for subsequent semester. Registered nurses must apply during the semester enrolled in NRS 3312.

Applicants into the sophomore level must have at least 30 semester hours with a cumulative GPA of 2.8 or above completed by application deadline (June 15). Required prerequisite courses must be completed with a "C" or better by application deadline. Due to space availability, applicants for admission will be ranked based on the GPA of all completed courses that apply toward the BSN Degree.

2nd Degree Accelerated BSN

March 15 for August Interim enrollment. A baccalaureate degree in another discipline plus all major required support courses must be completed by the end of the Spring semester.

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.

Associate of Applied Science in Nursing

June 15 for admission to the Fall semester for LPN to RN students at campus site and distance-learning sites; October 1 and June 15 for transfer/readmission for subsequent semester. Deadline for traditional AASN program at the Mountain Home, Beebe and West Memphis campus is October 1st. Applicants must complete required prerequisite support courses with a cumulative GPA of 2.0 or better. A "C" or better must be earned in ALL required courses. Applicants for admission will be ranked based upon prerequisites. All traditional AASN applicants must have CNA certification from Arkansas Office of Long Term Care.

Dietetics - Bachelor of Science

April 1 after sophomore year for admission in Fall semester.

In order for students to apply for admission into the Coordinated Program in Dietetics, they must meet the following conditions: cumulative GPA of 2.5 on a 4.0 scale of all college work attempted; English proficiency requirements, if foreign born; completion of program prerequisites with a minimum grade of "C" required in all courses.

Class size is limited due to the availability of supervised practice sites. All applicants may not be accepted into the program.

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.

Doctor of Physical Therapy

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.

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 45 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.

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, or nutritional science 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 following programs if the requirements (listed below) are not maintained:

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 "C" in the required laboratory sciences upon entry to the sophomore and junior level nursing courses.

F. Nutritional science program: if a grade lower than "C" is received in any degree course.

G. Physical therapist assistant program: if a grade lower than "C" is received in any PTA course.

H. Baccalaureate degree social work program: if a grade lower than "C" is received in any social work course or if a student fails to maintain a 2.75 GPA 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's website, http://www.astate.edu/college/conhp/departments/clinical-laboratory-sciences/ 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 Nutritional Science Program a completed application form obtainable from the program's website http://www.astate.edu/college/conhp/departments/dietetics/index.dot by the deadline date noted under "Application Procedure."

f. 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.

DISCLAIMER

Given the rapid changes in health care and technology, the programs in the College of Nursing and Health Professions reserve the right and responsibility to revise the curriculum to anticipate societal needs for health care. Therefore, students are strongly advised to contact the program directors for current requirements.

Students admitted to any College of Nursing and Health Professions program must meet the program's professional course requirements stated in the ASU Undergraduate Bulletin in effect the academic year of their admission to the professional program.

VACCINATION AND SKIN TESTING

Students **ADMITTED** to any program in the College of Nursing and Health Professions must present the following immunization and test documentation:

1. Rubella and rubeola (Arkansas statute).
2. Mumps and varicella vaccination or titer (clinical affiliate (hospital) requirements when working with infants and children).
3. If no hepatitis immunization or titer, then must begin the Hepatitis B vaccine series prior to enrolling in a clinical practicum class. All students except C.D. must have completed the Hepatitis B series before enrolling in the first practicum course of their program.
4. TB skin test each year that the student is enrolled in a clinical practicum. If skin test is positive, documentation of treatment status must be submitted.
5. Cardiopulmonary resuscitation (CPR) certification is required before taking any practicum courses. Certification status must be maintained and documentation submitted to the appropriate department throughout enrollment in any program.

RADIOLOGIC SCIENCES FILM BADGE FEES

Students accepted into the Radiologic Technology program will be assessed an annual charge of $100.00 per year ($200 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.

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 Regulations section in this Bulletin. Outside employment may need to be adjusted to course and clinical requirements scheduling.

TRANSPORTATION

Students are required to provide their own transportation when assigned to all practicums, including field experience in surrounding counties or other states. When determining educational costs, consideration should be given to this additional expense.

Department of Clinical Laboratory Sciences

Assistant Professor Stacy Walz, Chair
Assistant Professors: *Bednar, Payne, Skaggs*

The field of clinical laboratory science offers opportunities for 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 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 Scientist degree is a 4-year program which provides an understanding of the theoretical and scientific fundamentals underlying the procedures involved, which include a broad based knowledge in the principles of human biology, chemistry, analytical instrumentation, and a familiarity with the educational and managerial aspects associated with one who occupies a professional role in a wide variety of settings.

Students seeking admission to the AAS degree program must have a minimum GPA of 2.5 or better. Students seeking admission to the BS degree program must have a minimum GPA of 2.5 or better.

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

For more information about the CLS Program, go to: http://www.astate.edu/college/conhp/departments/clinical-laboratory-sciences/.

Major in Clinical Laboratory Sciences

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
CLS 1003, Making Connections CLS	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2103* ***AND*** *2101, Microbiology for Nursing and Laboratory* *Nine hours of Arts or Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
BIO 2203 **AND** 2201, Anatomy and Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CLS 3153, Clinical Biochemistry	3
CLS 1512 **AND** 1511, Principles of Clinical Lab Sciences and Laboratory	3
CLS 1521 **AND** 1531, Body Fluids and Laboratory	2
CLS 2523 **AND** 2521, Hematology I and Laboratory	4
CLS 2533 **AND** 2531, Medical Microbiology I and Laboratory	4
CLS 2543 **AND** 2541, Clinical Chemistry I and Laboratory	4
CLS 2563 **AND** 2561, Immunohematology I and Laboratory	4
CLS 2573 **AND** 2571, Clinical Immunology and Serology and Laboratory	4
CLS 3122, Research Concepts for CLS	2
CLS 3223 **AND** 3221, Hematology II and Laboratory	4
CLS 3343, Principles of Disease	3
CLS 3512 **AND** 3511, Medical Parasitology and Laboratory	3
CLS 3522, Clinical Laboratory Management	2
CLS 4013, Molecular Diagnostics	3
CLS 4113 **AND** 4111, Clinical Chemistry II and Clinical Issues and Topics in Clinical Chemistry II	4
CLS 4211, Clinical Laboratory Education	1
CLS 4333 **AND** 4331, Immunohematology II and Clinical Issues and Topics in Immunohematology II	4
CLS 4443 **AND** 4441, Medical Microbiology II and Clinical Issues and Topics in Medical Microbiology II	4
CLS 4174, Clinical Practicum I	4
CLS 4184, Clinical Practicum II	4
CLS 4194, Clinical Practicum III	4
CLS 4204, Clinical Practicum IV	4
Sub-total	**90**
Total Required Hours:	**128**

Major in Clinical Laboratory Sciences

Associate of Applied Science

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Applied Science Degrees (p. 85) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*	**15**
Major Requirements:	**Sem. Hrs.**
BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
CHEM 1013 **AND** 1011, General Chemistry I and Laboratory	4
CLS 1512 **AND** 1511, Basic Principles and Laboratory	3
CLS 1521 **AND** 1531, Body Fluids and Laboratory	2
CLS 2514, Clinical Practicum I	4
CLS 2523 **AND** 2521, Hematology I and Laboratory	4
CLS 2524, Clinical Practicum II	4
CLS 2533 **AND** 2531, Medical Microbiology I and Laboratory	4
CLS 2543 **AND** 2541, Clinical Chemistry I and Laboratory	4
CLS 2551, Hematology Disorders for the Clinical Lab Technician	1
CLS 2563 **AND** 2561, Basic Blood Banking and Laboratory	4
CLS 2573 **AND** 2571, Clinical Immunology and Laboratory	4
CLS 3512 **AND** 3511, Medical Parasitology and Laboratory	3
CLS 3514, Clinical Practicum III	4
CLS 3524, Clinical Practicum IV	4
Sub-total	**57**
Total Required Hours:	**72**

Department of Communication Disorders

Professor Richard Neeley, Chair
Professors: *McDaniel*
Assistant Professors: *Brantley, Good, Pait, Shollenbarger*

COMMUNICATION DISORDERS: The Bachelor of Science degree in Communication Disorders is a preprofessional degree program which provides students with academic and practical preparation considered essential for success in the Communication Disorders graduate program. The undergraduate curriculum offers students a broad base of preparation in general education requirements, the sciences associated with communication and its disorders, anatomy and physiology, and a number of basic methods courses associated with the identification and treatment of a variety of communication disorders.

ADMISSION REQUIREMENTS

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:
   ENG 1003, Composition I
   ENG 1013, Composition II
3. 'B' or better in Math 1023, College Algebra
4. An average GPA of 3.2 or higher in the following courses (repeated courses will be included in the calculation of the GPA):
   BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory
   CD 2104, Anatomy and Physiology of CD with Laboratory
   CD 2203, Phonetics
   CD 2653, Introduction to Communication Disorders
   PHSC 1203 **AND** 1201, Physical Science and Laboratory (or other approved phsyical science option with lab)
   PSY 2013, Introduction to Psychology
5. Complete 15 clock hours of supervised observation in the ASU Speech and Hearing Center
6. Complete a free speech and hearing screening at the ASU Speech and Hearing Center

PROBATION, RETENTION AND READMISSION

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

Major in Communication Disorders

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
CD 1003, Making Connections Communication Disorders	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *PHSC 1203* ***AND*** *1201, Physical Science and Laboratory* *PSY 2013, Introduction to Psychology* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology and Laboratory*	**35**
Major Requirements: *BIO 2203* ***AND*** *2201 ,CD 2104, CD 2203, CD 2653, PSY 2013 and PHYS 1203* ***AND*** *1201 (or other approved physical science option with lab) must be completed with an average GPA of 3.2 or better as a prerequisite for admission into the undergraduate program in Communication Disorders. Repeated courses will be included in the calculation of the GPA. Refer to the previous page for a complete list of admission requirements.* *Courses denoted with an asterisk (*) require admittance into the undergraduate Communication Disorders Program.*	**Sem. Hrs.**
CD 2104, Anatomy and Physiology of Speech	4
CD 2203, Phonetics	3
CD 2653, Introduction to Communication Disorders	3
CD 3003, Speech and Hearing Science	3
CD 3303, Normal Language Development	3
CD 3402, Intro. to Manual Communications	2
*CD 3503, Audiology	3
CD 3703, Clinical Management Techniques in CD	3
*CD 3803, Service Delivery in Communication Disorders	3
CD 4103, Fluency	3
CD 4203, Organic Speech Disorders	3
*CD 4254, Neurological Bases and Disorders of Human Communication	4
*CD 4303, Language Intervention for Individuals with Mild Disabilities	3
CD 4403, Aural Rehabilitation	3
*CD 4553, Craniofacial Anomalies	3
*CD 4752, Clinical Practice I	2
*CD 4703, Articulation and Phonological Disorders	3
CD 4873, Research Problems in Communication Disorders	3
Aging elective (select one of the following): CD 3113, Aging in communication SOC 4353, Sociology of Aging NRS 3353, Aging and the Older Adult	3
Counseling elective (select one of the following): CD 3653, Clinical Interactions in CD COMS 4403, Seminar in Health Communication ELSE 4683, Methods for Working with Families PSY 4053, Today's Families Interdisciplinary Approaches	3

Major in Communication Disorders (cont.)

Bachelor of Science

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

Psychology electives (select two of the following): PSY 3403, Child Psychology PSY 3703, Educational Psychology PSY 3413, Adolescent Psychology PSY 4343, Learning Processes PSY 3453, Developmental Psychology PSY 4363, Cognitive Psychology	6
Statistics elective (select one of the following): COMS 3363, Human Communication Research PSY 3103 **AND** 3101, Quantitative Methods and Lab SOC 3383 **AND** 3381, Social Statistics and Lab STAT 3233, Applied Statistics I	3-4
PE 1002, Concepts of Fitness	2
Sub-total	**71-72**
Electives:	**Sem. Hrs.**
Electives	**10-11**
Total Required Hours:	**120**

Disaster Preparedness and Emergency Management Program

Professor Deborah Persell, Program Director

The Bachelor of Science (BS) in Disaster Preparedness & Emergency Management (DPEM) offers a unique opportunity for students and current professionals in the field that bridges the gap between academia and practice. Originating from the College of Nursing and Health Professions (CNHP), the degree has a strong healthcare component that makes it unique among disaster preparedness, emergency management or homeland security programs. Within the 120 hour curriculum students complete both Basic and Advanced Disaster Life Support and take core courses devoted to the physical care of chemical, biological, radiation, nuclear and explosive injuries and disaster mental health; risk identification; disaster mental health and other courses devoted to the healthcare aspects of the pillars of emergency management. Many courses include practicum experiences with a strong healthcare focus; practicum experiences can be individualized to include medical centers, community care settings, government agencies, non-government agencies and others reflective of the discipline. Hospital Incident Command is included in the degree program.

Upon graduation students have multiple opportunities for employment, certifications and/or licensures. All graduates are eligible to take certification exam for Emergency Management. All disciplines are in need of experts in disaster preparedness. Potential employment venues include government, health care, business, education, non-government agencies as well as many others. A career path map can be found on the DPEM web site.

Faculty are certified and licensed in multiple disciplines. They are active members of regional, national and international emergency medicine/disaster health committees and are committed to retaining disaster health as a key component of the BS in DPEM.

PROGRAM PREREQUISITES

1. Minimum GPA of 2.0 on all transfer work
2. Completion of the ASU admission application process with acceptance

PROBATION, RETENTION AND READMISSION

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

Probation:

1. Grade of D or F in a discipline course
2. Semester or cumulative GPA less than 2.0
3. Failure to be accepted at a mandatory practicum site
4. Unprofessional behavior

Retention:

1. Minimum grade of C in all discipline courses
2. Minimum GPA of 2.0
3. Meet acceptance criteria for practicum site (unique to each site)
4. Professional behavior in all discipline courses/practicum experience

Readmission

1. Reapply to the program
2. Minimum GPA of 2.0
3. Faculty recommendation

Freshmen in residence on the ASU Jonesboro campus must take the First Year Experience. For more information about the program, go to: http://www.astate.edu/college/conhp/degrees/.

Major in Disaster Preparedness and Emergency Management

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)* **Students with this major must take the following for AAS degree:** *CS 1013, Introduction to Computers* ***OR*** *CIT 1503, Microcomputer Applications*	**35**
Major Requirements:	**Sem. Hrs.**
DPEM 1101, Introduction to Incident Management	1
DPEM 1111, Introduction to Resource Management	1
DPEM 1121, Introduction to CBRNE	1
DPEM 2213, Principles of Hazmat Response	3
DPEM 2223, Hazardous Materials Containment	3
DPEM 2233, Principles of Healthcare Emergency Management	3
DPEM 2303, Responding to Environmental Health Emergencies	3
DPEM 2313, Pandemics	3
DPEM 2323, Respiratory Protection	3
DPEM 2343, Hazardous Materials Technician	3
NRS 2353/DPEM 2353, Global Perspectives in Disaster Preparedness *Includes Core Disaster Life Support (CDLS).*	3
DPEM 2363, Fundamentals of CBRNE Crime Scene Management	3
DPEM 3503, Principles of Disaster Preparedness and Emergency Management	3
DPEM 3553, Ethical/Legal considerations	3
DPEM 4513, Physical Care of CBRNE Injuries	3
DPEM 4523, Risk Identification	3
DPEM 4533, Disaster and Mental Health	3
DPEM 4553, Capstone	3
DPEM 4563, Non-Governmental Agencies & DPEM	3
PR 4603, Crisis Communication	3
SOC 4603, Sociology of Disasters	3
Upper Level Statistics Course	3
Sub-total	**60**
Emphasis Area:	**Sem. Hrs.**
In consultation with their advisor, students must select courses within one area of emphasis (Disaster Preparedness & Emergency Management, Law Enforcement, Health Care, Administration.) Fifteen hours must be upper-level.	**22**
Total Required Hours:	**120**

Major in Disaster Preparedness and Emergency Management

Associate of Applied of Science

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

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Applied Science Degrees (p. 85) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *One BIOL course and laboratory* ***OR*** *One PHYS course and laboratory.*	**19**
Major Requirements:	**Sem. Hrs.**
DPEM 1101, Introduction to Incident Management	1
DPEM 1111, Introduction to Resource Management	1
DPEM 1121, Introduction to CBRNE	1
DPEM 2213, Principles of Hazmat Response	3
DPEM 2223, Hazardous Materials Containment	3
DPEM 2233, Principles of Healthcare Emergency Management	3
DPEM 2303, Responding to Environmental Health Emergencies	3
DPEM 2313, Pandemics	3
DPEM 2323, Respiratory Protection	3
DPEM 2343, Hazardous Materials Technician	3
NRS 2353/DPEM 2353, Global Perspectives in Disaster Preparedness *Includes Core Disaster Life Support (CDLS).*	3
DPEM 2363, Fundamentals of CBRNE Crime Scene Management	3
Sub-total	**30**
Emphasis Area:	**Sem. Hrs.**
In consultation with their advisor, students must select courses within one area of emphasis (Disaster Preparedness & Emergency Management, Law Enforcement, Health Care, Administration.)	**11**
Total Required Hours:	**60**

Health Studies Program

Associate Professors: *Duran, Matthews*
Instructors: *Long*

The Bachelor of Science in Health Studies degree (BSHS) serves a three-fold purpose for students: 1) planning to seek employment in a health or health related area upon graduation; 2) desiring a bachelor's degree following an associate's degree in health disciplines and 3) planning a health career that requires a post-baccalaureate plan of study.

This degree does not lead to a professional credential or state licensure. It does prepare students for roles in community health, support services, health care navigation, claims services, medical sales and patient services. Online certification is available in some areas such as compliance officer, health advocate and coding specialist.

The value of this degree is that it provides a baseline of skills and education in areas that are of tremendous importance to the health of Arkansans. Students will study chronic illness, prevention, wellness, healthcare advocacy, patient safety, health information technology, health systems, interdisciplinary practice, aging, mental health and cultural competence. A basic foundation of knowledge will allow the graduate to bridge from health to health care which will be important in a diverse array of health settings.

The passage of the Affordable Care Act has "redesigned" workforce roles and created new employment opportunities in the process. The American Hospital Association, in its "Workforce Roles in a Redesigned Primary Care Model", discusses the emergence of new team members that connect patients with providers and community resources. These members might be called health coaches, health care navigators, population assistants or community health aides.

PROGRAM PREREQUISITES

Two separate degree tracks are available for the BSHS: The Professional Track and Non-Professional Track. The Professional Track requires students to have an Associate of Applied Science (AAS) degree in an allied health related field (e.g., Physical Therapist Assistant, Clinical Laboratory, Nursing, Radiologic Technology). The Non-Professional Track does not require students to hold an AAS degree.

PROBATION, RETENTION AND READMISSION

Students wishing to pursue the BS in Health Studies (BSHS) must apply to Arkansas State University and meet all admission requirements established by the university. Students must declare the BSHS major and schedule a meeting with a BSHS advisor. All general education and major requirements must be completed with a grade of "C" or better.

Major in Heath Studies

Bachelor of Science
(Professional Track)

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PTA 1013, Making Connections in Physical Therapy	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Applied Science and Baccalaureate degrees (p. 84) **Students with this major must take the following for BS degree:** *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *PHYS 2054, General Physics I* *PSY 2013, Introduction to Psychology* *MATH 1033, Plane Trigonometry* **Students with this major must take the following for AAS degree:** *CS 1013, Introduction to Computers* ***OR*** *CIT 1503, Microcomputer Applications*	**35**
Physical Therapist Assistant Program:	**Sem. Hrs.**
PTA AAS Degree Requirements	**38**
Major Requirements:	**Sem. Hrs.**
CLS 4212, Interpreting Laboratory Data	2
HP 3233, Preventive Health	3
HP 3353, Public Health: Principles and Practice	3
HP 3453, Healthcare Navigations	3
HP 3463, Introduction to Pharmaceuticals	3
HP 3673, Critical Issues in Health	3
HP 3783, Issues in Mental Health	3
HP 4103, Patient Education in Health Care	3
HP 4213, Chronic Illness	3
HP 4323, Patient Safety	3
HP 4433, Healthcare Advocacy	3
HP 4543, Healthcare Service Delivery	3
HP 4803, Introduction to Geriatrics	3
PHIL 3713, Ethics in Health Professions	3
Sub-total	**41**
Required Support Courses:	**Sem. Hrs.**
HP 2112, Introduction to the United States Healthcare System	2
Electives:	**Sem. Hrs.**
Electives (must include at least 4 upper-level hours)	**6**
Total Required Hours (Physical Therapist Assistant):	**125**

Major in Health Studies

Bachelor of Science
(Non-Professional Track)

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *BIO 2203 AND 2201, Human Anatomy and Physiology I and Laboratory* *ECON 2333, Economic Issues and Concepts* *PSY 2013, Introduction to Psychology*	**35**
Major Requirements:	**Sem. Hrs.**
CLS 4212, Interpreting Laboratory Data	2
HP 3123, Introduction to Disease	3
HP 3233, Preventive Health	3
HP 3353, Public Health: Principles and Practice	3
HP 3413, Cultural Competence In The Health Professions	3
HP 3453, Healthcare Navigations	3
HP 3463, Introduction to Pharmaceuticals	3
HP 3673, Critical Issues in Health	3
HP 3783, Issues in Mental Health	3
HP 4103, Patient Education in Health Care	3
HP 4213, Chronic Illness	3
HP 4323, Patient Safety	3
HP 4433, Healthcare Advocacy	3
HP 4543, Healthcare Service Delivery	3
HP 4803, Introduction to Geriatrics	3
PHIL 3713, Ethics in Health Professions	3
Sub-total	**47**
Required Support Courses:	**Sem. Hrs.**
DPEM 2223, Healthcare Emergency Management	3
HLTH 2513, Principles of Personal Health	3
HP 2013, Medical Terminology	3
HP 2112, Introduction to the United States Healthcare System	2
NRS 2203, Basic Human Nutrition	3
SOC 2223, Social Problems	3
Sub-total	**17**
Electives:	**Sem. Hrs.**
Electives	**18**
Total Required Hours:	**120**

Department of Medical Imaging and Radiation Sciences

Associate Professor Ray Winters, Chair
Associate Professors: *Caldwell, Rollins, White*
Assistant Professors: *Barymon, DuBose, Manning , Wooten*
Instructors: *Carter, Youngman*

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: General Radiography, CT 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.

CREDIT FOR WORK EXPERIENCE

Technologists who have successfully passed an appropriate national professional examination and have worked 1,000 hours in that specialty over the past two years are eligible to receive credit for work experience. Individuals should contact their program director for further information.

Major in Radiologic Technology

PROGRAM ADMISSION REQUIREMENTS

The Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology. The program exists to produce competent, entry-level radiographers for the practice of diagnostic imaging. Through didactic courses, laboratory participation, and clinical experiences, students acquire professional, ethical, and technical skills required of radiologic practitioners.

Admittance to the Radiologic Technology Program is accessed through two distinct methods. Students must declare intent to pursue the Associate of Applied Science degree or intent to pursue the Bachelor of Science in Radiologic Sciences. Students who declare the AAS degree and later wish to pursue the BSRS degree must make separate application upon completion of the AAS degree. (See the Health Professional Advisor or the Director of Radiologic Sciences Programs for complete details.)

Students accepted into the Radiologic Technology program will complete their professional education in two areas: the class room and the clinical setting. Class room work will occur on the ASU-Jonesboro campus, while clinical education will occur in area hospitals and clinics. The professional portion of the program is offered as a full-time course. Upon graduation, students are eligible for the national credentialing American Registry of Radiologic Technologists examination in radiography.

Applicants to the Radiologic Technology Program are selected by the Admissions Committee using the following criteria:

1. Cumulative grade point average
2. Support course GPA (see application package)
3. Essay Score
4. Reference evaluations

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

PROBATION, RETENTION AND READMISSION

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

Major in Radiologic Technology

Associate of Applied Science

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

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Applied Science Degrees (p. 85) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory*	**19**
Radiologic Technology:	**Sem. Hrs.**
RT 1103, Introduction to Radiologic Technology	3
RT 1112, Basic Radiologic Procedures	2
RT 1121, Basic Radiologic Procedures Laboratory	1
RT 1202, Radiologic Procedures	2
RT 1211, Radiologic Procedures Laboratory	1
RT 1222, Radiation Physics	2
RT 1232, Clinical Practicum I	2
RT 1303, Advanced Radiologic Procedures	3
RT 1311, Advanced Radiologic Procedures Laboratory	1
RT 1323, Principles of Exposure I	3
RT 1332, Clinical Practicum II	2
RT 2104, Clinical Practicum III	4
RT 2114, Clinical Practicum IV	4
RT 2122, Principles of Exposure II	2
RT 3113, Radiologic Pathophysiology	3
RT 3202, Radiologic Special Procedures	2
RT 3212, Principles of Exposure III	2
RT 3223, Clinical Practicum V	3
RT 3312, Radiobiology	2
RT 3332, Radiologic Pharmacology	2
RT 3333, Clinical Practicum VI	3
Sub-total	**49**
Required Support Courses:	**Sem. Hrs.**
HP 2013, Medical Terminology	3
PSY 2013, Introduction to Psychology	3
Sub-total	**6**
Total Required Hours:	**74**

BS in Radiologic Sciences Programs

The Bachelor of Science in Radiologic Sciences is offered in one of the following six majors:

1. Imaging Specialist (requires one of the following emphasis areas):
   -Mammography
   -Computed Tomography
   -General Radiography
2. Radiation Therapy
3. Diagnostic Medical Sonography
4. Magnetic Resonance Imaging
5. Nuclear Medicine Technology
6. Radiology Management

CREDIT FOR CURRENT PROFESSIONAL CERTIFICATION

Students holding current ARRT Advanced Level Certification in Cardiovascular-Interventional Technology, Mammography, Computed Tomography, Magnetic Resonance Imaging, or Quality Management, ARRT registration in Radiation Therapy or Nuclear Medicine, NMTCB registration in Nuclear Medicine, or ARDMS registration in Diagnostic Medical Sonography may request credit for work experience, independent study options, and waiver of clinical education coursework in their area of expertise. These requests will be evaluated on an individual basis but will require completion of at least one course in the specialty from ASU in order to complete the requirements for a minor toward the BSRS degree and at least two courses in the specialty from ASU to complete the requirements for a major toward the BSRS degree. In addition, students must complete all general education requirements, Radiologic Sciences Core requirements, and meet all residency requirements of the university. Individuals should contact their program director for further information.

PROBATION, RETENTION AND READMISSION

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

Imaging Specialist Program

ADMISSION REQUIREMENTS

To be admitted to the Bachelor of Science in Radiologic Sciences program, students must meet one of the requirements listed below:

1. Completion of a Joint Review committee on Education in Radiologic Technology (JRCERT) approved Associate Degree Program in Radiologic Technology OR
2. Receive credit by articulation. Registered radiologic technologists who do not possess an Associate degree may receive 50 radiologic technology credit hours by providing documentation of the following three requirements:
   a. Graduation from a JRCERT approved school of Radiologic Technology
   b. A passing score on the American Registry of Radiologic Technologists certification examination
   c. Successful academic performance on 6 semester hours of the BSRS Program.

When these requirements have been met, the Chair of the Department of Medical Imaging and Radiation Sciences will formally notify the Office of Admissions, Records and Registration and credit will be recorded on the student's transcript for 50 hours of ASU Radiologic Technology courses.

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Imaging Specialist - General Radiography
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**48**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy & Physiology II and Laboratory	4
NRS/DPEM 3503, Principles of Disaster Preparedness and Emergency Management	3
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3733, Geriatric Considerations in Radiology	3
RS 3811, Radiologic Quality Management Administration	1
RS 4333, Radiologic Educational Concepts **OR** RS 4343, Radiologic Administrative Concepts	3
RS 4463, Statistics for Medical Imaging	3
RS 4822, Pyschosocial Factors in Healthcare Delivery	2
RS 4852, Advanced Radiologic Pathophysiology I	2
RS 4862, Advanced Radiologic Pathophysiology II	2
Sub-total	**25**
Specialty Area (General Radiography):	**Sem. Hrs.**
RS 3133, Sectional Anatomy	3
RS 3843, Advanced Clinical Practice Skills	3
RS 436V, Independent Study in Radiologic Sciences (3 hours)	3
Sub-total	**9**
Total Required Hours:	**120**

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Imaging Specialist - Mammography
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**48**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy & Physiology II and Laboratory	4
NRS/DPEM 3503, Principles of Disaster Preparedness and Emergency Management	3
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3733, Geriatric Considerations in Radiology	3
RS 3811, Radiologic Quality Management Administration	1
RS 4333, Radiologic Educational Concepts **OR** RS 4343, Radiologic Administrative Concepts	3
RS 4463, Statistics for Medical Imaging	3
RS 4822, Pyschosocial Factors in Healthcare Delivery	2
RS 4852, Advanced Radiologic Pathophysiology I	2
RS 4862, Advanced Radiologic Pathophysiology II	2
Sub-total	**25**
Specialty Area (Mammography):	**Sem. Hrs.**
HP 2103, Medical Terminology	3
RS 436V, Independent Study in Radiologic Sciences (2 hours)	2
RS 4532, Mammography Procedures & Instrumentation	2
RS 4552, Mammography Clinical Education	2
Sub-total	**9**
Total Required Hours:	**120**

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Imaging Specialist - Computed Tomography
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**47**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy & Physiology II and Laboratory	4
NRS/DPEM 3503, Principles of Disaster Preparedness and Emergency Management	3
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3733, Geriatric Considerations in Radiology	3
RS 3811, Radiologic Quality Management Administration	1
RS 4333, Radiologic Educational Concepts **OR** RS 4343, Radiologic Administrative Concepts	3
RS 4463, Statistics for Medical Imaging	3
RS 4822, Pyschosocial Factors in Healthcare Delivery	2
RS 4852, Advanced Radiologic Pathophysiology I	2
RS 4862, Advanced Radiologic Pathophysiology II	2
Sub-total	**25**
Specialty Area (Computed Tomography):	**Sem. Hrs.**
RS 3133, Sectional Anatomy	3
RS 4622, Computed Tomography Instrumentation	2
RS 4632, Computed Tomography Procedures	2
RS 4643, Computed Tomography Clinical Education	3
Sub-total	**10**
Total Required Hours:	**120**

Radiation Therapy Program

The Radiation Therapy program is accredited by the Joint Review Committee on Education in Radiologic Technology. This major is designed to provide the student with the skills necessary to become a radiation therapist. Upon completion of the baccalaureate degree students are prepared to sit for the ARRT examination in Radiation Therapy.

ADMISSION REQUIREMENTS

Selection into the program is based on:

1. Cumulative grade point average
2. Selected course grades
3. Interview
4. References
5. Selection preference is given to those who are near successful completion of the General Education Curriculum and the Radiologic Sciences core courses.

The above criteria are converted to a point system.

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Radiation Therapy

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**31**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
RS 3133, Sectional Anatomy	3
RS 4343, Radiologic Administrative Concepts	3
RS 4463, Statistics for Medical Imaging	3
RST 4203, Introduction to Radiation Therapy and Patient Care	3
RST 4214, Radiation Therapy Principles and Practice I	4
RST 4224, Radiation Therapy Principles and Practice II	4
RST 4242, Radiation Therapy Clinical Treatment Planning	2
RST 4234, Radiation Therapy Principles and Practice II	4
RST 4313, Radiation Physics I	3
RST 4323, Radiation Physics II	3
RST 4333, Applied Radiation Biology	3
RST 4413, Radiation Protection, Safety, and Quality Management	3
RST 4513, Radiation Therapy Clinical Education I	3
RST 4523, Radiation Therapy Clinical Education II	3
RST 4533, Radiation Therapy Clinical Education III	3
Sub-total	**51**
Total Required Hours:	**120**

Diagnostic Medical Sonography Program

The General Sonography concentration is accredited by the Joint Review Committee on Education in Diagnostic Medical Sonography. This major is designed to produce competent and compassionate entry-level sonographers for the practice of diagnostic medical sonography. The Non-Healthcare track is designed for applicants who have no prior experience in the healthcare setting. The Healthcare track is designed for applicants who have an associate's degree in healthcare (i.e. Radiologic Technology, Nursing, etc.) Upon completion of the baccalaureate degree students are prepared to sit for the American Registry of Diagnostic Medical Sonographers (ARDMS) examinations in sonography principles & instrumentation, abdomen, obstetrics/gynecology, and vascular technology.

ADMISSION REQUIREMENTS DEGREE IN DIAGNOSTIC MEDICAL SONOGRAPHY

Selection into the program is based on:

1. Cumulative grade point average
2. Selected course grades
3. Interview
4. Completed reference forms

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 RSU prefixes.

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Diagnostic Medical Sonography (Non-Healthcare Track)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
HP 2013, Medical Terminology	3
HP 3003, General Gross Anatomy	3
PHYS 2133, Survey of Physics for Health Professions or higher level physics	3
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3133, Sectional Anatomy	3
RS 3733, Geriatric Considerations in Radiology **OR** RS 4343, Radiologic Administrative Concepts	3
RS 4463, Statistics for Medical Imaging	3
RSU 4101, Introduction to Ultrasound	1
RSU 4112, Sectional Anatomy: Sonography	2
RSU 4122, Small Parts	2
RSU 4132, Introduction to Sonography Lab	2
RSU 4213, Physics & Instrumentation I	3
RSU 4223, Abdomen Sonography	3
RSU 4232, Abdomen Sonography Lab	2
RSU 4322, Ob/Gyn Sonography Lab	2
RSU 4323, Physics & Instrumentation II	3
RSU 4413, Vascular Sonography	3
RSU 4422, Vascular Sonography Lab	2
RSU 4513, Ultrasound Clinical I	3
RSU 4523, Ultrasound Clinical II	3
RSU 4534, Ultrasound Clinical III	4
RSU 4542, Ultrasound Clinical IV	2
RSU 4551, Clinical Relevancy	1
RSU 4552, Ultrasound Clinical V	2
RSU 4613, Ob/Gyn Sonography	3
RSU 4622, OB Sonography (10 weeks)	2
RSU 4642, Introduction to Cardiovascular Sonography	2

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Diagnostic Medical Sonography (Non-Healthcare Track)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

RSU 4652, Special Procedures in Sonography	2
RSU 4723, Cardiac Sonography	3
RSU 4762, Advanced Vascular Procedures	2
RSU 4812, Cardiac Conduction and Arrhythmia	2
RSU 4842, Cardiac Sonography Lab	2
Sub-total	**82**
Total Required Hours:	**120**

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Diagnostic Medical Sonography (Previous Healthcare Track)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**7**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3133, Sectional Anatomy	3
RS 4343, Radiologic Administrative Concepts **OR** RS 3733, Geriatric Considerations in Radiology **OR** RS 4882, Psych Factors in Health Care Delivery	2-3
RS 4463, Statistics for Medical Imaging	3
RSU 4101, Introduction to Ultrasound	1
RSU 4112, Sectional Anatomy: Sonography	2
RSU 4122, Small Parts	2
RSU 4132, Introduction to Sonography Lab	2
RSU 4213, Physics & Instrumentation I	3
RSU 4223, Abdomen Sonography	3
RSU 4232, Abdomen Sonography Lab	2
RSU 4322, Ob/Gyn Sonography Lab	2
RSU 4323, Physics & Instrumentation II	3
RSU 4413, Vascular Sonography	3
RSU 4422, Vascular Sono Lab	2
RSU 4513, Ultrasound Clinical I	3
RSU 4523, Ultrasound Clinical II	3
RSU 4534, Ultrasound Clinical III	4
RSU 4542, Ultrasound Clinical IV	2
RSU 4551, Clinical Relevancy	1
RSU 4552, Ultrasound Clinical V	2
RSU 4613, Ob/Gyn Sonography	3
RSU 4622, OB Sonography (10 weeks)	2
RSU 4642, Introduction to Cardiovascular Sonography	2
RSU 4652, Special Procedures in Sonography	2
RSU 4723, Cardiac Sonography	3
RSU 4762, Advanced Vascular Procedures	2

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Diagnostic Medical Sonography (Previous Healthcare Track)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

RSU 4812, Cardiac Conduction and Arrhythmia	2
RSU 4842, Cardiac Sonography Lab	2
RT 1222, Radiologic Physics	2
Sub-total	**74-75**
Electives:	**Sem. Hrs.**
Electives	**0-1**
Total Required Hours:	**120**

Magnetic Resonance Imaging Program

The Magnetic Resonance Imaging program is currently accredited by the Joint Review Committee on Education in Radiologic Technology. This major is designed to provide the student with the skills necessary to become a MR technologist. The healthcare track is designed for those individuals with previous healthcare experience or a degree in radiologic technology. Upon completion of the baccalaureate degree students are prepared to sit for the ARRT examination in Magnetic Resonance Imaging.

ADMISSION REQUIREMENTS

Selection into the program is based on:

1. Cumulative grade point average
2. Selected course grades
3. Interview
4. References
5. Essay

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 RSMR prefixes. Registered Radiologic Technologists receive extra points when calculating total scores.

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Magnetic Resonance Imaging (Non-Healthcare Track)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry and Laboratory* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
HP 2013, Medical Terminology	3
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3133, Sectional Anatomy	3
RS 4463, Statistics for Medical Imaging	3
RSMR 3853, Advanced MR Pathophysiology I	3
RSMR 3863, Advanced MR Pathophysiology II	3
RSMR 4702, Introduction to MR Imaging	2
RSMR 4703, MRI Instrumentation	3
RSMR 4712, Imaging Information Management	2
RSMR 4723, MRI Procedures I	3
RSMR 4733, MRI Procedures II	3
RSMR 4753, Clinical Education I	3
RSMR 4763, Clinical Education II	3
RSMR 4773, Clinical Education III	3
RSMR 4783, Clinical Education IV	3
RSMR 4803, MRI Physical Principles I	3
RSMR 4812, MRI Pharmacology	2
RSMR 4813, MRI Physical Principles II	3
RSMR 4823, Data Acquisition & Processing	3
RSMR 4832, Advanced MR Imaging	2
Sub-total	**59**
Electives:	**Sem. Hrs.**
Electives	**23**
Total Required Hours:	**120**

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Magnetic Resonance Imaging (Previous Healthcare Track)
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry and Laboratory* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**23**
Major Requirements:	**Sem. Hrs.**
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
HP 2013, Medical Terminology	3
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 3133, Sectional Anatomy	3
RS 4463, Statistics for Medical Imaging	3
RSMR 3853, Advanced MR Pathophysiology I	3
RSMR 3863, Advanced MR Pathophysiology II	3
RSMR 4702, Introduction to MR Imaging	2
RSMR 4703, MRI Instrumentation	3
RSMR 4712, Imaging Information Management	2
RSMR 4723, MRI Procedures I	3
RSMR 4733, MRI Procedures II	3
RSMR 4753, Clinical Education I	3
RSMR 4763, Clinical Education II	3
RSMR 4773, Clinical Education III	3
RSMR 4783, Clinical Education IV	3
RSMR 4803, MRI Physical Principles I	3
RSMR 4812, MRI Pharmacology	2
RSMR 4813, MRI Physical Principles II	3
RSMR 4823, Data Acquisition & Processing	3
RSMR 4832, Advanced MR Imaging	2
Sub-total	**59**
Total Required Hours:	**120**

Nuclear Medicine Technology Program

ADMISSION REQUIREMENTS

The Nuclear Medicine Technology program is a joint accreditation arrangement between ASU and Methodist Healthcare of Memphis, accredited by the Joint Review Committee on Education in Nuclear Medicine Technology. The major is designed to provide the student with the skills necessary to become a nuclear medicine technologist. To complete the major in this area, students must complete the 31 hours of the program. Didactic (classroom) 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.

Applicants to the Nuclear Medicine Technology Program are selected by the Admissions Committee of Methodist Healthcare, using the following criteria:

1. Cumulative grade point average
2. Selected course grade
3. Interview

Upon completion of the baccalaureate degree students are prepared to sit for the ARRT or CNMT examination in Nuclear Medicine Technology.

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Nuclear Medicine Technology

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry and Laboratory* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**50**
Major Requirements:	**Sem. Hrs.**
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 4343, Radiologic Administrative Concepts	3
RS 4822 Psychosocial Factors in Healthcare	2
RS 4862, Advanced Radiologic Pathophysiology II	2
RSN 4113, Nuclear Medicine Pharmacy	3
RSN 4213, Nuclear Medicine Physics and Instrumentation	3
RSN 4313, Nuclear Medicine Procedures I	3
RSN 4323, Nuclear Medicine Procedures II	3
RSN 4513, Nuclear Medicine Clinical Education I	3
RSN 4523, Nuclear Medicine Clinical Education II	3
RSN 4535, Nuclear Medicine Clinical Education III	5
Sub-total	**32**
Total Required Hours:	**120**

Radiology Management Program

ADMISSION REQUIREMENTS

To be admitted to the BSRS Management Major, students must meet one of the requirements listed below:

1. Completion of a Joint Review committee on Education in Radiologic Technology (JRCERT) approved Associate Degree Program in Radiologic Technology
2. Receive credit by articulation. Registered radiologic technologists who do not possess an Associate degree may receive 50 radiologic technology credit hours by providing documentation of the following three requirements:

   a. graduation from a JRCERT approved school of Radiologic Technology
   b. a passing score on the American Registry of Radiologic Technologists certification examination
   c. successful academic performance on 6 semester hours of the BSRS Program.

   When these requirements have been met, the Chair of the Department of Medical Imaging and Radiation Sciences will formally notify the Office of Admissions, Records and Registration and credit will be recorded on the student's transcript for 50 hours of ASU Radiologic Technology courses.

Major in Radiologic Sciences

Bachelor of Science in Radiologic Sciences
Emphasis in Radiology Management

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
RT 1003, Making Connections in Radiology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203* ***AND*** *2201, Human Anatomy and Physiology I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Previous Radiologic Technology Education:	**Sem. Hrs.**
Students must complete an approved School of Radiologic Technology	**49**
Major Requirements:	**Sem. Hrs.**
BCOM 2563, Business Communication	3
MGMT 3123, Principles of Management	3
MGMT 3143, Human Resource Management	3
MGMT 3153, Organizational Behavior	3
MGMT 4143, Organizational Change and Development	3
MGMT 4163, Small Business Management	3
RS 3122, Legal and Regulatory Environment of Radiology	2
RS 4343, Radiologic Administrative Concepts	3
RS 4363, Independent Study in the Radiologic Sciences	3
RS 4463, Statistics for Medical Imaging	3
RS 4822, Pyschosocial Factors in Healthcare Delivery	2
RSMR 4712, Imaging Information Management	2
Sub-total	**33**
Total Required Hours:	**120**

School of Nursing

Associate Professor Kathy Wren, Graduate Chair
Associate Professor Annette Stacy, BSN Chair
Assistant Professor Renee Miller, AASN Chair
Professors: *Skorga, C. Young, Persell*
Associate Professors: *Hall, Isaacson, Matthews, Snellgrove*
Assistant Professors: *Anderson, Baker, Black, Blue, Cooper (Beebe), Davidson (West Memphis), Drake (Mountain Home), Fisher, Flannigan, Fuller (Mountain Home), Gunter (Beebe), Hailey, Koekemoer, Latting (Mountain Home), Mata, McKinney, McPike, Moody (West Memphis), Nix, Norman, Pfriemer, Schafer (West Memphis), Stegall, Tate, Wiggins, Wilcox, Wimberley, C.L. Young*

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 individuality among populations); **Service** (professional experiences in response to the needs of society); **Learning** (acquisition of knowledge and skills in critical thinking, practical reasoning, and decision making) and **Student Centered** (development of essential skills for lifelong learning, leadership, professionalism, and social responsibility).

The School of Nursing offers the Associate 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 nurse prepared at the baccalaureate level is a professional who has acquired a well-delineated and broad knowledge base for practice. We believe that the role of a baccalaureate graduate is multifaceted and developed through extensive study in the areas of liberal education, professional values, core competencies, core knowledge and role development. This knowledge base prepares the beginning baccalaureate graduate to function as a provider of direct and indirect care to individuals, families, groups, communities and populations. The baccalaureate graduate is also a member of the profession and a designer, manager and coordinator of care.

2nd DEGREE ACCELERATED BACHELOR OF SCIENCE IN NURSING: A BSN option designed for the graduate of baccalaureate program in another discipline. The option is accelerated and all nursing course work is completed in one year of full time study.

EDUCATIONAL MOBILITY: The nursing faculty is committed to the concept of educational mobility, and has provided a variety of approaches to Licensed Practical Nurses, to Licensed Psychiatric Technician Nurses, and to Registered Nurses prepared at the associate degree and diploma levels. LPNs, LPTNs, and RNs must work closely with their advisors. LPNs and LPTNs must be admitted to the desired program prior to enrolling in any nursing courses (except NS 2203, NRS 3353, NRS 2392, and NRSP 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. Detailed information may be obtained from the nursing office (972-3074) relative to earning credit by articulation or examinations.

Prospective students who are LPNs, LPTNs, or RNs applying for admission to any nursing program must have a current unencumbered license to practice nursing.

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.

DISTANCE-LEARNING PROGRAM: The School of Nursing offers nursing courses and programs on-site and by compressed video to selected rural Arkansas sites: MidSouth Community College (West Memphis); ASU-Mountain Home; and ASU-Beebe.

To contact Distance Learning offices:

ASU-Jonesboro (Main campus) ..... (870) 972-3074
ASU-Beebe ..... (501) 882-8891
ASU-Mountain Home ..... (870) 508-6113
MSCC-West Memphis ..... (870) 733-6031

EARLY GRADUATE SCHOOL ADMISSION: If a BSN senior has a cumulative GPA of at least 2.75, or a GPA of 3.00 on the last 60 hours, and has the approval of the faculty advisor, the student may take a graduate level course in the final year of the BSN program. The total number of credits per semester may not exceed 15. Students will receive graduate credits only if the requirements for the bachelor's degree (BSN) have been met at the end of the second term, and all requirements for admission to the Graduate School are met.

CRIMINAL BACKGROUND CHECKS: Arkansas law requires applicants for licensure by examination to submit to criminal background checks. If an applicant has pleaded guilty or *nolo contendere* to any offense listed in Act 1208 of 1999, he/she is not eligible for Arkansas licensure. (Act 1208 of 1999 provides opportunity to request a waiver of eligibility criteria related to a criminal background in certain circumstances.)

PROBATION, RETENTION AND READMISSION: Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

Major in Nursing

Bachelor of Science in Nursing

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
NRS 1123, Making Connections Nursing	**3**
General Education Requirements: ***Prior to beginning the junior year, students must complete the following:*** *BIO 2103* ***AND*** *2101, Microbiology for Nursing and Laboratory* *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry I and Laboratory*	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Laboratory* ***OR*** *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2103* ***AND*** *2101, Microbiology for Nursing and Allied Health and Laboratory* *PSY 2013, Introduction to Psychology* *SOC 2213, Introduction to Sociology* *Nine hours of Fine Arts or Humanities (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements: ***Prior to beginning the junior year, students must complete the following:*** *NRS 2314, Concepts of Nursing* *NRS 2391, Health Assessment Practicum* *NRS 2392, Health Assessment* *NRS 2334, Health Promotion and Introduction to Acute Care Nursing* *NRS 3023, Interdisciplinary Clinical Pathophysiology* ***OR*** *BIO 3203 Pathophysiology* *NRSP 1422, Foundations of Nursing Practice* *NRSP 2343, Nursing Care II*	**Sem. Hrs.**
NRS 2314, Concepts of Nursing	4
NRS 2334, Health Promotion and Introduction to Acute Care Nursing	4
NRS 2392, Health Assessment	2
NRS 3023, Interdisciplinary Clinical Pathophysiology	3
NRS 3312, Introduction to Nursing Research	2
NRS 3315, Acute Care Nursing I	5
NRS 3345, Acute Care Nursing II	5
NRS 3463, Pathophysiology Based Pharmacology I	3
NRS 3473, Pathophysiology Based Pharmacology II	3
NRS 4312, Chronic Illness and Rehabilitation Nursing	2
NRS 4343, Professional Nursing—Community	3
NRS 4355, Critical Care and Emergency Nursing	5
NRS 4362, Professional Role Development	2
NRS 4542, Health Care Administration	2
NRSP 1422, Foundations of Nursing Practice	2
NRSP 2343, Nursing Care II	3
NRSP 2391, Health Assessment Practicum	1
NRSP 3325, Nursing Care III	5
NRSP 3355, Nursing Care IV	5
NRSP 4336, Nursing Care V	6
NRSP 4366, Nursing Care VI	6
Sub-total	**73**

Major in Nursing (cont.)

Bachelor of Science in Nursing

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

Required Support Courses: ***Prior to beginning the junior year, students must complete the following:*** *BIO 2203* ***AND*** *2201, Anatomy and Physiology I and Laboratory* *BIO 2223* ***AND*** *2221, Anatomy and Physiology II and Laboratory* *CHEM 1052, Fundamental Concepts of Organic and Biochemistry*	**Sem. Hrs.**
BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy/Physiology II and Laboratory	4
CHEM 1052, Fundamental Concepts of Organic and Biochemistry	2
Statistics elective	3
Sub-total	**13**
Total Required Hours:	**124**

Major in Nursing

Bachelor of Science in Nursing
Second Degree Accelerated Program

Admission Requirements:	
1. Earned Bachelor Degree 2. Overall GPA of 2.5 3. Acceptable immunization status 4. Completion of the following courses with a "C" or better: BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory BIO 2223 **AND** 2221, Human Anatomy/Physiology II and Laboratory CHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry I and Laboratory CHEM 1052, Fundamental Concepts of Organic and Biochemistry ENG 1003, Composition I ENG 1013, Composition II PSY 2013, Introduction to Psychology SOC 2213, Introduction to Sociology Statistics elective - 3 credit hours HIST 2763, The United States to 1876 **OR** HIST 2773, The United States Since 1876 **OR** POSC 2103, Introduction to United States Government MATH 1023, College Algebra MATH course that requires MATH 1023 as a prerequisite	
Major Requirements:	**Sem. Hrs.**
NRS 2392, Health Assessment	2
NRS 2423, Introduction to Essentials of Nursing	3
NRS 2433, Essentials of Medical-Surgical Nursing I	3
NRS 2443, Essentials of Nursing Care of the Child-Bearing Family	3
NRS 3312, Introduction to Nursing Research	2
NRS 3422, Essentials of Mental Health Nursing	2
NRS 3423, Essentials of Community Heath	3
NRS 3445, Essentials of Medical-Surgical Nursing II	5
NRS 3463, Pathophysiology Based Pharmacology I	3
NRS 3473, Pathophysiology Based Pharmacology II	3
NRS 4362, Professional Role Development	2
NRS 4425, Essentials of Medical-Surgical Nursing III	5
NRS 4443, Essentials of High Acuity Nursing	3
NRS 4542, Health Care Administration	2
NRSP 1422, Foundations of Nursing Practice	2
NRSP 2391, Health Assessment Practicum	1
NRSP 2432, Clinical Experience I	2
NRSP 3433, Clinical Experience II	3
NRSP 3453, Clinical Experience III	3
NRSP 4433, Clinical Experience IV	3
NRSP 4456, Clinical Experience V	6
NRSP 4466, Clinical Experience VI	6
Total Required Hours:	**67**

LPN-TO-BSN OPTION

ASU participates in the statewide articulation program for licensed practical nurses (LPNs) and registered nurses (RNs) seeking the BSN degree. In that program, LPNs and RNs may earn credit by articulation or by challenge examination, depending on number of years since graduation from the applicant's LPN, diploma or associate degree program in nursing.

Prospective students pursuing these options must meet current criteria relating to eligibility, application deadlines, course work and program policies and procedures. For specific information concerning the LPN-to-BSN program, contact the School of Nursing office at (870) 972-3074.

ADMISSION REQUIREMENTS

1. Current unencumbered LPN License to practice in Arkansas
2. Overall GPA of 2.5
3. Current CPR certification
4. Acceptable immunization status
5. Completion of all lab science and mathematics courses required for a baccalaureate degree in nursing, with a "C" or better in each class.
6. Completion of required support courses.

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

LPN-to-BSN Option

Bachelor of Science in Nursing

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
Required Courses (prior to Junior Year):	**Sem. Hrs.**
BIO 2103 **AND** 2011, Microbiology for Nursing and Allied Health and Laboratory	4
BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
CHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry I and Laboratory	4
CHEM 1052, Fundamental Concepts of Organic and Biochemistry	2
ENG 1003, Composition I	3
ENG 1013, Composition II	3
MATH 1023, College Algebra	3
PSY 2013, Introduction to Psychology	3
SOC 2213, Introduction to Sociology	3
NRS 2392, Health Assessment	2
NRS 3463, Pathophysiology Based Pharmacology I	3
NRSP 2391, Health Assessment Practicum	1
Sub-total	**39**
Major Requirements:	**Sem. Hrs.**
NRS 330V, LPN-to-BSN (Special Problems)	1
NRS 3312, Introduction to Nursing Research	2
NRS 3315, Acute Care Nursing I	5
NRS 3345, Acute Care Nursing II	5
NRS 3463, Pathophysiology Based Pharmacology II	3
NRS 4312, Chronic Illness and Rehabilitation Nursing	2
NRS 4343, Professional Nursing—Community	3
NRS 4355, Critical Care and Emergency Nursing	5
NRS 4362, Professional Role Development	2
NRS 4481, Critical Decision Making and Testing Competencies in Nursing	1
NRS 4542, Health Care Administration	2
NRSP 3325, Nursing Care III	5
NRSP 3355, Nursing Care IV	5
NRSP 4336, Nursing Care V	6
NRSP 4366, Nursing Care VI	6
Sub-total	**53**
Hours by Articulation:	**Sem. Hrs.**
NRS 2314, Concepts of Nursing	**4**
NRS 2334, Health Promotion and Intro to Acute Care Nursing	**4**
NRSP 1422, Foundations of Nursing Practice	**2**
NRSP 2343, Nursing Care II	**3**
Sub-total	**13**
Total Required Hours:	**105**

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.

The RN-to-BSN option 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.

APPLICATION

The application must be fully completed and all supporting documents submitted prior to enrollment.

ADMISSION REQUIREMENTS

1. Current unencumbered registered nurse license
2. Overall GPA of 2.5
3. Completion of all required English, Science and Math courses with a "C" or better in each course.
4. Completion of required support courses

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

PROFESSIONAL REQUIREMENTS

1. A current unencumbered registered nursing license
2. Professional liability insurance (minimum: $1,000,000/$3,000,000 coverage)
3. Current CPR certification
4. Acceptable immunization status

RN-to-BSN Option

Bachelor of Science in Nursing

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *CHEM 1041, Fundamentals of Chemistry I and Laboratory* *BIOL 2103* ***AND*** *BIOL 2101, Microbiology for Nurses and Laboratory* *PSY 2013, Introduction to Psychology* *SOC 2213, Introduction to Sociology*	**35**
Major Requirements:	**Sem. Hrs.**
HP 3413, Cultural Competence in the Health Professions	3
NS 2203, Basic Human Nutrition	3
NRS 2793, Health Assessment and Exam	3
NRS 3713, Evidence Based Practice	3
NRS 3723, Clinical Pathophysiology	3
NRS 4713, Chronic Illness Nursing	3
NRS 4723, High Acuity Nursing	3
NRS 4733, Nursing Management	3
NRS 4743, Community Nursing	3
NRS 4763, Professional Nursing Role	3
NRS Upper-level Nursing elective	3
NRSP 4793, RN-BSN Capstone	3
Sub-total	**36**
Hours by Articulation:	**Sem. Hrs.**
NRS 2314, Concepts of Nursing	4
NRS 2334, Health Promotion and Intro to Acute Care Nursing	4
NRS 3315, Acute Care Nursing I	5
NRS 3343, Clinical Pharmacology	5
NRS 3345, Acute Care Nursing II	5
NRSP 1422, Foundations of Nursing Practice	2
NRSP 2343, Nursing Care II	3
NRSP 3325, Nursing Care III	3
NRSP 3355, Nursing Care IV	5
Sub-total	**36**
Required Support Courses:	**Sem. Hrs.**
BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
CHEM 1052, Fundamentals of Chemistry II	2
Statistics (3 hours)	3
Sub-total	**13**
Total Required Hours:	**120**

Major in Nursing

Associate of Applied Science in Nursing

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

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Applied Science Degrees (p. 85) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*	**15**
Major Requirements:	**Sem. Hrs.**
NRS 1214, Introduction to Nursing	4
NRS 1235, Nursing I	5
NRS 1252, Role Development I	2
NRS 2212, Nursing II Mental Health	2
NRS 2213, Nursing II Medical Surgical	3
NRS 2232, Nursing III Maternal Child	2
NRS 2233, Nursing III Medical Surgical	3
NRS 2251, Role Development II	1
NRS 2392, Health Assessment	2
NRSP 1222, Fundamentals of Nursing Practicum	2
NRSP 1243, Clinical Practicum I	3
NRSP 2223, Clinical Practicum II	3
NRSP 2244, Clinical Practicum III	4
NRSP 2272, Role Development Practicum	2
NRSP 2391, Health Assessment Practicum	1
Sub-total	**39**
Required Support Courses:	**Sem. Hrs.**
BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory	4
BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory	4
Sub-total	**12**
Total Required Hours:	**66**

Major in Nursing (cont.)

Associate of Applied Science in Nursing

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

Required Progression of Courses for Traditional A.A.S.N. Students:

Students must maintain a minimum grade of "C" in all degree-required courses for an Associate of Applied Science in Nursing degree to continue progression.

Student must attain CNA certification from Arkansas Office of Long Term Care or an equivalent state recognized CNA certification.

The following courses must be completed prior to acceptance into the program:

BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory
ENG 1003, Composition I
MATH 1023, College Algebra (or higher level math)

The following courses must be completed prior to taking NRS 1235, Nursing I and NRSP 1243, Clinical Practicum I:

BIO 2223 **AND** 2221, Anatomy and Physiology II and Laboratory
CS 1013, Introduction to Computers **OR**
CIT 1503, Microcomputer Applications **OR**
Any comparable three-hour computer course
NRS 2392, Health Assessment
NRSP 2391, Health Assessment Practicum

The following courses must be completed prior to taking NRS 2232, Nursing III Maternal Child and NRS 2233, Nursing III Medical Surgical and NRSP 2244, Clinical Practicum III:

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

One of the following courses must be completed prior to graduation:

ENG 1013, Composition II **OR**
HIST 2763, The United States To 1876 **OR**
HIST 2773, The United States Since 1876 **OR**
POSC 2103, Introduction to United States Government

Required Progression of Courses for L.P.N. - A.A.S.N. Students:

Students must maintain a minimum grade of "C" in all degree-required courses for an Associate of Applied Science in Nursing degree to continue progression.

ASU participates in the statewide articulation program for licensed practical nurses (LPNs) seeking the AASN degree. 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.

The following courses/hours are obtained through articulation:

NRS 1214, Introduction to Nursing (4)
NRSP 1222, Fundamentals of Nursing Practicum (2)

The following courses must be completed prior to first fall semester nursing courses or prior to taking NRS 1235 and NRSP 1243:

BIO 2203 **AND** 2201, Human Anatomy/Physiology I and Laboratory
BIO 2223 **AND** 2221, Human Anatomy/Physiology II and Laboratory
CIT 1503, Microcomputer Applications **OR**
CS 1013, Introduction to Computer **OR**
Any comparable three-hour computer course
ENG 1003, Composition I
MATH 1023, College Algebra (or higher level math course)
NRS 2392, Health Assessment
NRSP 2391, Health Assessment Practicum

The following courses must be completed prior to NRSP 2244:

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

One of the following courses must be completed prior to graduation:

ENG 1013, Composition II **OR**
HIST 2763, The United States To 1876 **OR**
HIST 2773, The United States Since 1876 **OR**
POSC 2103, Introduction to United States Government

School of Nursing Minors

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.

Required Courses:	Sem. Hrs.
DPEM/NRS/POSC 4553, Capstone in Homeland Security and Disaster Preparedness	3
NRS 3503, Principles of Disaster Preparedness and Emergency Management	3
Select three courses from within a single track: **Track 1: Healthcare in Homeland Security and Emergency Preparedness** NRS 4513, Physical Care of Chemical, Biological, Radiologic, Nuclear and Explosive Injuries NRS 4523, Risk Identification and Prevention in Disaster and Emergency Preparedness NRS 4533, Disaster Mental Health SW 4203, Crisis Intervention **Track 2: Disaster Preparedness, Response and Operations Management** POSC 4513, Disaster Response - Operations and Management PR 4603, Crisis Communication SOC 4343, GIS for Social Sciences POSC 4133, Intergovernmental Relations and Federalism in an Era of Insecurity **Track 3: Sociocultural & Political Disaster Preparedness** SOC 3363, Sociology of Religion OR SW 4363, Religion and Spirituality in Social Work Practice SOC 4003, Perspectives on Death and Dying SOC 4063, Sociology of Disasters SOC 4263, Terrorism as a Social Movement	9
Select one course from one of the other two tracks.	3
Total Required Hours:	**18**

Nutritional Science Program

Assistant Professor Pam Towery, Program Director
Assistant Professors: *Tidwell*

The Coordinated Program in Dietetics seeks to provide quality education and experiences for students in the field of dietetics to meet the need for registered dietitians (RD) in the Delta region and beyond. The program provides for the achievement of knowledge and performance requirements for entry-level dietitians through integration of didactic instruction with a minimum of 1200 hours of supervised practice. The supervised practice experiences occur in foodservice, community and clinical settings. Upon graduation, students are eligible to take the national credentialing examination administered by the Commission on Dietetic Registration. After passing the examination, they become registered dietitians.

In addition to RD credentialing, many states have regulatory laws for dietitians and nutrition practitioners. Frequently these state requirements are met through the same education and training required to become a registered dietitian.

Registered dietitians are considered food and nutrition experts. They work in a wide variety of employment settings, including hospitals and healthcare facilities, food & nutrition-related business and industry, sports nutrition & wellness programs, community & public health, education, research areas and private practice.

ADMISSION REQUIREMENTS

In order for students to apply for admission into the Coordinated Program in Dietetics, they must meet the following conditions:

1. Cumulative GPA of 2.5 on a 4.0 scale of all college work attempted.
2. English proficiency requirements, if foreign born.
3. Completion of program prerequisites with a minimum grade of "C" required in all courses.

Class size is limited due to the availability of supervised practice sites. All applicants may not be accepted into the program.

PROBATION, RETENTION AND READMISSION

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

For more information about the dietetics program, go to: http://www.astate.edu/college/conhp/degrees/.

Major in Dietetics

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
UC 1013, Making Connections	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Lab* *BIO 2103* ***AND*** *2101, Microbiology for Nursing and Allied Health and Lab* *PSY 2013, Introduction to Psychology* *SOC 2213, Introduction to Sociology* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
NS 3113, Nutrition through Life Cycle I	3
NS 3123, Nutritional Biochemistry	3
NS 3133, Food Service Management	3
NS 3143, Basic Foods	3
NS 3153, Food and Society	3
NS 3223, Nutrition through Life Cycle II	3
NS 3233, Dietetics Administration	3
NS 3243, Quantity Foods	3
NS 3253, Nutrition Assessment	3
NS 4413, Medical Nutrition Therapy I	3
NS 4443, Experimental Foods	3
NS 4453, Community Nutrition	3
NS 4523, Medical Nutrition Therapy II	3
NS 4553, Nutrition Counseling	3
NS 4563, Special Topics	3
NS 4573, Research Methods in Nutrition	3
NSP 3213, Practicum I	3
NSP 3326, Practicum II	6
NSP 4433, Practicum III	3
NSP 4543, Practicum IV	**3**
NSP 4656, Practicum V	6
STATS 3233, Applied Stats	3
Sub-total	**72**

Major in Dietetics (cont.)

Bachelor of Science

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

Required Support Courses: *Prior to beginning the junior year, students must complete the following courses.*	**Sem. Hrs.**
BIO 2203 **AND** 2201, Anatomy and Physiology I and Laboratory	4
BIO 2223 **AND** 2221, Anatomy and Physiology II and Laboratory	4
NS 2203, Basic Human Nutrition	3
CHEM 1052, Fundamental Concepts of Organic and Biochemistry	2
HP 2013, Medical Terminology	3
Sub-total	**16**
Total Required Hours:	**126**

Department of Physical Therapy

Associate Professor Shawn Drake, Chair
Professors: *Aldridge*
Associate Professors: *Guffey*
Assistant Professors: *Head, Keith, Motts, Sloas, Whitehead, Phillips*
Instructors: *Meekins, Smith*

GRADUATE PROGRAM IN PHYSICAL THERAPY (DPT)

Arkansas State University
pt.astate.edu
(870) 972-3591

If you are considering attending Arkansas State University and have the goal of studying Physical Therapy, the following information will be most important to you. The members of the faculty of the PT Program are pleased that you have considered our program. It is important for you to understand some things about Physical Therapy education. The information below should make the process of obtaining a degree in Physical Therapy more understandable.

Physical therapy education is delivered at the graduate level. This is not unique to ASU. All accredited Physical Therapy education programs deliver the entry-level degree at the post-baccalaureate level. This is the nature of PT education.

There is no undergraduate Physical Therapy degree. Yes, there is an Associate Degree in Physical Therapist Assisting at ASU, but this is not the PT degree. If your goal is to become a Physical Therapist, you will need to first complete a four-year degree (bachelor's degree). The Physical Therapy Program does not require any particular major or area of study. We view all undergraduate degrees as being of equal value and potentially appropriate preparation for PT School. We do, however, require certain prerequisite courses (primarily basic math and science courses) to prepare you for the professional courses you will be taking once admitted to graduate school and the PT Program. You should meet with one of the faculty of the PT Program to discuss these courses and how they can fit into your chosen field of undergraduate study.

As you near the completion of your undergraduate degree, you will want to make application to the ASU Graduate School and to the PT Program. The PT faculty will assist you with this process. During your undergraduate study you will want to develop a relationship with the PT faculty so that you remain abreast of all steps and processes involved in getting prepared for and applying to the PT program.

There are many issues and details that will need to be addressed as you prepare for PT School. That is why we are committed to helping you. For now, you should simply know that ASU is "the" place to get your education to become a PT. If you are reading this you have already begun the process. You may already have a field of study in mind for your undergraduate degree. That is great. If you are unsure about the undergraduate study, come by and visit. We can make some suggestions.

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

Visit the PT Program at http://pt.astate.edu. Call us at (870) 972-3591. We are looking forward to helping you make your time at ASU enjoyable and rewarding.

DOCTOR OF PHYSICAL THERAPY PROGRAM

Students should be aware of the Doctor of Physical Therapy (DPT) Program offered at ASU. See **Graduate Bulletin** or contact the PT program office for details at (870) 972-3591.

PHYSICAL THERAPIST ASSISTANT

The PTA assists the PT in patient evaluation and assessment activities, implements treatment programs according to a plan of care, trains patients in exercises and activities of daily living, conducts treatments using special equipment, administers modalities and other treatment procedures, and reports to the PT on patients' responses to treatment.

Major in Physical Therapist Assistant

Associate of Applied Science

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

University Requirements:	
See University General Requirements for Associate degrees (p. 40)	
First Year Making Connections Course:	**Sem. Hrs.**
PTA 1013, Making Connections in Physical Therapy	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Associate of Applied Science Degrees (p. 85) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*	**15**
Required Support Courses:	**Sem. Hrs.**
BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory	4
PHYS 2054, General Physics I (may have a prerequisite) **OR** PHYS 2133, Survey of Physics for Health Professions	3-4
Sub-total	**7-8**
Major Requirements:	**Sem. Hrs.**
PTA 2116, Patient Care Fundamentals	6
PTA 2126, Movement Science	6
PTA 2213, Musculoskeletal PT	3
PTA 2223, Physical Agents and Massage	3
PTA 2233, Neuromuscular PT I	3
PTA 2252, Clinical Education I	2
PTA 2263, Pathophysiological Conditions	3
PTA 2303, Neuromuscular PT II	3
PTA 2323, Seminar	3
PTA 2333, Clinical Education II	3
PTA 2343, Clinical Education III	3
Sub-total	**38**
Total Required Hours:	**63-64**

Department of Social Work

Professor Karen Allen, Chair
Professor: *Brewer*
Associate Professors: *Freer, Walls, Wilkerson*
Assistant Professors: *Addae, Carrick, Morton*
Instructors: *Duncan, Fullen, Holt, Ryan*
Director of Field Education: *Parker*

The Bachelor of Social Work degree is accredited by the Council on Social Work Education. Completion of this program prepares students for beginning generalist social work practice.

Bachelors level social workers work with a variety of clients in many settings. The skills learned in the curriculum include interviewing skills, assessment skills, and intervention skills. The BSW qualifies the student to sit for the state exam at the Licensed Social Worker level. The state licensing law outlines the level of practice at this level. This is referred to as the Generalist Practice level.

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

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 on the Bachelor of Social Work website. 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 on the website and be approved by the Program Admissions Committee. Since this is a competitive admissions process, meeting minimum eligibility criteria does not guarantee admission to the program.

Bachelor of Social Work

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
SW 1203, Making Connections Social Work	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) ***Students with this major must take the following:*** *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *SOC 2213, Introduction to Sociology* *COMS 1203 Oral Communications (Required Departmental Gen. Ed. Option)*	**35**
Major Requirements:	**Sem. Hrs.**
PSY 4533, Abnormal Psychology	3
SOC 3383 **AND** 3381, Social Statistical Methods and Laboratory	4
SOC 4293, Methods of Social Research	3
SW 2203, Introduction to Social Work	3
SW 2223, Social Problems	3
SW 3253, Social Work Practice I	3
SW 3303, Human Behavior in Social Environment I	3
SW 3333, Human Behavior in Social Environment II	3
SW 3363, Cultural Diversity	3
SW 4263, Social Work Practice II	3
SW 4273, Field Experience I	3
SW 4283, Field Experience Seminar	3
SW 4296, Field Experience II	6
SW 4303, Social Work Practice III	3
SW 4313, Social Welfare Policy	3
Social Work electives	12
Sub-total	**61**
Electives:	**Sem. Hrs.**
Electives *Foreign language, specifically Spanish, is highly recommended. Students choosing language must complete all 12 hours in the sequence.*	**21**
Total Required Hours:	**120**

College of Sciences & Mathematics

Dr. John Pratte, 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 the Bachelor of Arts in Chemistry and in Computer Science; the Bachelor of Science in Biology, in Wildlife Ecology and Management, in Chemistry, in Physics, in Computer Science, and in Mathematics; and the 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 master's 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 ASU's Graduate Bulletin.

The college is comprised of four departments:

Department of Biological Sciences
Department of Chemistry and Physics
Department of Computer Science
Department of Mathematics and Statistics

GRADUATION REQUIREMENT - BACHELOR OF SCIENCE IN EDUCATION

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

FOREIGN LANGUAGE REQUIREMENT

BACHELOR OF ARTS

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

1. By completing the second semester of the intermediate year of foreign language at the college level. Students with no foreign language experience must enroll in the first semester of the freshman year and complete 12 hours of a single language. Students with some proficiency may enroll in the more advanced courses without having received credit for previous courses with the approval of the instructor and the department chair. Students who have completed two years of a single foreign language in high school should enroll in Intermediate Language I. Students who have completed one year of a foreign language in high school should enroll in Elementary Language II. Students with questions about their readiness for these courses should consult a member of the language faculty. (No credit will be awarded for courses waived.)
2. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to completion of the second semester of the intermediate year of a foreign language at the college level.

BACHELOR OF SCIENCE

All students who seek the degree of Bachelor of Science in the College of Sciences and Mathematics must demonstrate proficiency in a foreign language. This may be done in one of the following ways:

1. By completing two years of a single foreign language in high school.
2. By completing the second semester of an elementary foreign language course at the college level. Students with no foreign language experience must enroll in the first semester of the freshman year and complete six hours of a single language. Students who have completed one year of a foreign language in high school should enroll in Elementary Language II (3 hours).
3. By passing an examination acceptable to the foreign language faculty as proof of proficiency equivalent to successful completion of the second semester of the elementary year of a foreign language at the college level.

Department of Biological Sciences

Professor Thomas Risch, Chair
Professors: *Cramer, Farris, A. Grippo, R. Grippo, Johnson, Srivatsan, Trauth*
Associate Professors: *Bennett, Bouldin, Gilmore, Huss, McKay, Medina-Boliver,*
Assistant Professors: *Marsico, Rolland, Sikkel, Zhou*
Instructors: *Huggins, Klotz*

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 Biological Sciences

Bachelor of Science
Emphasis in Biology

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35-36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Biological Sciences Major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3013 **AND** 3011, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 4021, Biological Seminar	1
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
MATH 2194, Survey of Calculus	4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
Sub-total	**40**
Emphasis Area (Biology):	**Sem. Hrs.**
BIO 3033, Evolution	3
BIO 3302 **AND** 3312, Comparative Anatomy and Laboratory	4
BIO 3303 **AND** 3301, General Entomology and Laboratory **OR** BIO 3322 **AND** 3332, Invertebrate Zoology and Laboratory	4
BIO 3323 **AND** 3321, Animal Physiology and Laboratory **OR** BIO 4513, Plant Physiology	3-4
BIO 4104, Microbiology	4
BIO 4133 **AND** BIO 4131, Cell Biology and Laboratory **OR** CHEM 4243, Biochemistry	3-4
BIO 4332 **AND** 4342, Animal Histology and Laboratory **OR** BIO 4343 **AND** 4341, Animal Embryology and Laboratory	4
BIO 4542 **AND** 4541, Mycology and Laboratory **OR** BIO 4552 **AND** 4551, Medical Mycology and Laboratory	3

Major in Biological Sciences

Bachelor of Science
Emphasis in Biology

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

BIO 4704, Plant Systematics **OR** BIO 4522 **AND** 4521, Wetland Plant Ecology and Laboratory	3-4
STAT 3233, Applied Statistics I	3
Electives (BIO prefix)	4-8
Sub-total	**41-42**
Total Required Hours:	**120**

Major in Biological Sciences

Bachelor of Science
Emphasis in Botany

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35-36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Biological Sciences Major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3013 **AND** 3011, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 4021, Biological Seminar	1
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
MATH 2194, Survey of Calculus	4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
Sub-total	**40**
Emphasis Area (Botany):	**Sem. Hrs.**
BIO 3033, Evolution	3
BIO 3303 **AND** 3301, General Entomology and Laboratory **OR** BIO 3313 **AND** 3311, Economic Entomology and Laboratory	4
BIO 3542 **AND** 3541, Plant Pathology and Laboratory **OR** BIO 4542 **AND** 4541, Mycology and Laboratory **OR** BIO 4552 **AND** 4551, Medical Mycology and Laboratory	3
BIO 4104, Microbiology	4
BIO 4113, Plant Physiology	3
BIO 4522 **AND** 4521, Wetland Plant Ecology and Laboratory	3
BIO 4704, Plant Systematics	4
STAT 3233, Applied Statistics I **OR** CHEM 4243, Biochemistry	3
Sub-total	**27**
Electives:	**Sem. Hrs.**
Electives (two hours must be upper-level)	**14-15**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Biological Sciences

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35-36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Biological Sciences Major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3013 **AND** 3011, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 4021, Biological Seminar	1
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
MATH 2194, Survey of Calculus	4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
Sub-total	**40**
Emphasis Area (Environmental Biology):	**Sem. Hrs.**
BIO 4133 **AND** 4131, Cell Biology and Laboratory **OR** CHEM 4243, Biochemistry	3-4
BIO 4613, Conservation Biology	3
BIO 4623, Environmental Microbiology	3
BIO 4633, Environmental Toxicology: Mechanisms & Impacts	3
BIO 4643 **AND** 4641, Environmental Biology and Laboratory	4
BIO 4704, Plant Systematics **OR** BIO 3303 **AND** 3301, General Entomology and Laboratory **OR** BIO 3322 **AND** 3332, Invertebrate Zoology and Laboratory	4
POSC 4533, Environmental Law & Administration	3
PSSC 2813 **AND** 2811, Soils and Laboratory	4
STAT 3233, Applied Statistics I	3
Sub-total	**30-31**
Electives:	**Sem. Hrs.**
Electives	**10-12**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Biological Sciences

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35-36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Biological Sciences Major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3013 **AND** 3011, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 4021, Biological Seminar	1
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
MATH 2194, Survey of Calculus	4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
Sub-total	**40**
Emphasis Area (Pre-professional Studies):	**Sem. Hrs.**
BIO 3302 **AND** 3312, Comparative Anatomy and Laboratory **AND** BIO 3323 **AND** 3321, Animal Physiology and Laboratory **OR** BIO 3223 **AND** 3221, Human Structure and Function I and Laboratory **AND** BIO 3233 **AND** 3231, Human Structure and Function II and Laboratory	8
BIO 4104, Microbiology	4
BIO 4133 **AND** 4131, Cell Biology and Laboratory **OR** CHEM 4243, Biochemistry	3-4

Major in Biological Sciences

Bachelor of Science
Emphasis in Pre-professional Studies

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

Select three of the following: BIO 3203, Pathophysiology BIO 4103, Virology BIO 4113 **AND** 4111, Immunology and Laboratory BIO 4123, Cell Signaling BIO 4133 **AND** 4131, Cell Biology and Laboratory BIO 4143, Pharmacology BIO 4163 **AND** 4161, Mammalian Neurobiology and Laboratory BIO 4213 **AND** 4211, Human Genetics and Laboratory BIO 4332 **AND** 4342, Animal Histology and Laboratory BIO 4343 **AND** 4341, Animal Embryology and Laboratory BIO 4552 **AND** 4551, Medical Mycology and Laboratory BIO 4623 **AND** 4621, Environmental Microbiology and Laboratory CHEM 3154, Survey of Physical Chemistry CHEM 4243, Biochemistry PHIL 3713, Ethics in the Health Professions STAT 3233, Applied Statistics I	9-12
Sub-total	**24-28**
Electives:	**Sem. Hrs.**
Electives	**13-18**
Total Required Hours:	**120**

Major in Biological Sciences

Bachelor of Science
Emphasis in Zoology

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35-36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Biological Sciences Major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3013 **AND** 3011, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 4021, Biological Seminar	1
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
MATH 2194, Survey of Calculus	4
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
Sub-total	**40**
Emphasis Area (Zoology):	**Sem. Hrs.**
BIO 3302 **AND** 3312, Comparative Anatomy and Laboratory	4
BIO 3303 **AND** 3301, General Entomology and Laboratory **OR** BIO 3322 **AND** 3332, Invertebrate Zoology and Laboratory	4
BIO 3323 **AND** 3321, Animal Physiology and Laboratory	4
BIO 4332 **AND** 4342, Animal Histology and Laboratory	4
BIO 4343 **AND** 4341, Animal Embryology and Laboratory	4
STAT 3233, Applied Statistics I **OR** CHEM 4243, Biochemistry	3
Botany elective (consult advisor for appropriate course numbers)	3
Zoology electives (consult advisor for appropriate course numbers)	6
Sub-total	**32**
Electives:	**Sem. Hrs.**
Electives (six hours must be upper-level)	**9-10**
Total Required Hours:	**120**

Major in General Science

Bachelor of Science in Education
Emphasis in Biology

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2194, Survey of Calculus* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**36**
Major Requirements:	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3013 **AND** 3011, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 3033, Evolution	3
BIO 4104, Microbiology	4
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103, Organic Chemistry I	3
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
Earth Science Electives (select three of the following): GEOG 3723, Introduction to Physical Geography **OR** GEOG 4633, Climatology GEOL 1003, Environmental Geology PHYS 1103, Introduction to Space Science **OR** PHYS 3133, Astronomy PHYS 3043, Atmospheric Dynamics	9
Sub-total	**46**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
*EDSC 4593, Methods and Materials for Teaching Science in the Secondary School	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Inst. Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TIBI 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**
Additional General Requirements for Teacher Education:	**Sem. Hrs.**
HLTH 2513, Principles of Personal Health	**3**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Biotechnology

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2194, Survey of Calculus* *CHEM 1013 AND CHEM 1011, General Chemistry I and Laboratry* *BIO 2013 AND 2011, Biology of the Cell and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**36**
Major Requirements:	**Sem. Hrs.**
BIO 2042, Biotechnology in a Global Society	2
BIO 3013 **AND** BIO 3011, Genetics and Laboratory	4
BIO 4033, Bioinformatics and Applications	3
BIO 403V, Special Problems in Biology	3
BIO 4053, Applications in Biotechnology	3
BIO 4063, Biosafety and Ethics in Research	3
BIO 4104, Microbiology	4
BIO 4133 **AND** BIO 4131, Cell Biology and Laboratory	4
BIO 4152, Laboratory in BioTechniques I	2
BIO 4154, Laboratory in BioTechniques II	4
BIO 4164, Molecular Biology	4
CHEM 1023 **AND** CHEM 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** CHEM 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** CHEM 3111, Organic Chemistry II and Laboratory	4
CHEM 4243, Biochemistry	3
PHYS 2054, General Physics I	4
PHYS 2064, General Physics II	4
STAT 3233, Applied Statistics I	3
Biological Science electives	6
Sub-total	**68**
Additional Support Courses:	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory **OR** BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
MGMT 3123, Principles of Management **OR** MGMT 3183, Entrepreneurship	3
BIO 4103, Virology **OR** BIO 4113, Immunology	3
AGRI 4523, Applied Modern Biotechnology **OR** BIO 5123, Human Genetics (as approved)	3
Sub-total	**13**
Total Required Hours:	**120**

Major in Wildlife Ecology and Management

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
BIO 1013, Making Connections - Biology	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1054, Precalculus Mathematics or MATH course that requires MATH 1023 as a prerequisite* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Wildlife Ecology and Management Major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
AGRI 3543, Fundamentals of GIS/GPS	3
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 1503 **AND** 1501, Biology of Plants and Laboratory	4
BIO 3013 **AND** 3311, Genetics and Laboratory	4
BIO 3023, Principles of Ecology	3
BIO 4704, Plant Systematics	4
BIO 4021, Biological Seminar	1
Select one of the following combinations: BIO 4311 **AND** 4312, Fishery Biology and Laboratory BIO 4402 **AND** 4401, Ichthyology and Laboratory BIO 4603 **AND** 4601, Limnology and Laboratory	3-4
Select two of the following combinations: BIO 4352 **AND** 4351, Mammalogy and Laboratory BIO 4423 **AND** 4421, Ornithology and Laboratory BIO 4412 **AND** 4411, Herpetology and Laboratory	6-7
BIO 4373 **AND** 4371, Animal Ecology and Laboratory	4
BIO 4413, Wildlife Program Internship	3
BIO 4653 **AND** 4651, Wildlife Management and Laboratory	4
BIO 4613, Conservation Biology	3
BIO 4663 **AND** 4661, Wildlife Management Techniques and Laboratory	4
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
ENG 3043,Technical Writing *Or communication course to be approved by advisor or chair.*	3
MATH 2194, Survey of Calculus	4
POSC 4533, Environmental Law and Administration	3
STAT 3233, Applied Statistics I	3
Botany Elective	3

Major in Wildlife Ecology and Management

Bachelor of Science

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

Physical Sciences Elective *GEOL 1003* ***AND*** *1001, Environmental Geology and Laboratory* ***OR*** *PSSC 2813* ***AND*** *2811, Soils and Soils Laboratory recommended.*	4
Zoology Electives	5-7
Sub-total	**81**
Total Required Hours:	**120**

Department of Biological Sciences Minors

Minor in Biology

Required Courses: BIOL 1003 **AND** 1001, Biological Science and Laboratory may be substituted for one (1) of the core combinations, but this is NOT recommended; Biological Science does NOT serve as a prerequisite for any upper-level electives, so choosing this course as one of the core courses may limit the choices of electives that students may choose.	**Sem. Hrs.**
Select two of the following core combinations: BIO 1303 **AND** 1301, Biology of Animals and Laboratory BIO 1503 **AND** 1501, Biology of Plants and Laboratory BIO 2013 **AND** 2011, Biology of the Cell and Laboratory	8
Upper-level BIO Electives with laboratory	11
Total Required Hours:	**19**

Minor in Marine Science

Required Courses:. Other applicable courses may be added in the future to select from as appropriate.	**Sem. Hrs.**
BIO 4333, Marine Biology	3
BIO 4433, Field Experiences in Marine Systems **OR** BIO 4353, Field Techniques: Marine Vertebrates	3
PHYS 3043, Atmospheric Dynamics	3
BIO 4413, Wildlife Internship	3
Electives (select six hours from the following): *Other courses may be substituted with departmental approval.* BIO 4323, Marine Mammals BIO 4322, Marine Mammals Laboratory BIO 4402, Ichthyology BIO 4401, Ichthyology Laboratory BIO 3322, Invertebrate Zoology BIO 3332, Invertebrate Zoology Laboratory	6
Total Required Hours:	**18**

Department of Chemistry and Physics

Associate Professor William Burns, Chair
Professors: *Draganjac, Reeve, Pratte, Sustich*
Associate Professors: *Johnson, Kennon, Lorence, Ontko, Panigot, Bin Zhang*
Assistant Professors: *Ali, Biswas, Carroll, Hershberger, Izadyar, Koizumi, Marten*
Instructors: *K. Burns, Rougeau*

The courses in chemistry and physics are designed to prepare individuals for a variety of post-baccalaureate options. The Bachelor of Science degree is for individuals who are seeking employment as chemical or physical professionals, or who wish to continue studies toward a Masters or Ph.D. Students who are looking to pursue a further degree in law, medicine, dentistry, or pharmaceuticals will find either the B.S. degrees in chemistry or physics or the Bachelor of Arts in Chemistry as an option for entry into the appropriate post-baccalaureate program. The Bachelor of Science Education degrees will lead to a rewarding career in secondary science education. In many 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/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PHSC 1003, Making Connections - Chemistry and Physics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus I* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)*	**36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Chemistry major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 2002, Computers in Chemistry	2
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
CHEM 3124, Physical Chemistry	4
CHEM 3134, Physical Chemistry II	4
CHEM 4204, Inorganic Chemistry	4
CHEM 4224, Instrumentation	4
CHEM 4243, Biochemistry	3
CHEM 427V, Research in Chemistry	3
CHEM 4281, Chemistry Seminar	1
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
PHYS 2034, University Physics I	4
PHYS 2044, University Physics II	4
Sub-total	**61**
Electives:	**Sem. Hrs.**
Electives	**20**
Total Required Hours:	**120**

Major in Chemistry

Bachelor of Science
Emphasis in Pre-Health Profession Studies
A complete 8-semester degree plan is available at http://registrar.astate.edu/.

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PHSC 1003, Making Connections - Chemistry and Physics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus I* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)*	**36**
Language Requirement:	**Sem. Hrs.**
A student must complete the foreign language requirements before being considered a Chemistry major. (Refer to p. 353 for foreign language requirements).	
Major Requirements:	**Sem. Hrs.**
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 2002, Computers in Chemistry	2
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
CHEM 3124, Physical Chemistry	4
CHEM 3134, Physical Chemistry II	4
CHEM 4204, Inorganic Chemistry	4
CHEM 4224, Instrumentation	4
CHEM 4243, Biochemistry	3
CHEM 427V, Research in Chemistry	3
CHEM 4281, Chemistry Seminar	1
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
PHYS 2034, University Physics I	4
PHYS 2044, University Physics II	4
Sub-total	**61**
Emphasis Area (Pre-Health Profession Studies): *Six hours of the electives below must be upper-level.*	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
Biology Electives	8
Sub-total	**12**
Electives:	**Sem. Hrs.**
Electives	**8**
Total Required Hours:	**120**

Major in Chemistry

Bachelor of Arts

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PHSC 1003, Making Connections - Chemistry and Physics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus I* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)*	**36**
Language Requirement:	**Sem. Hrs.**
(Refer to p. 353 for foreign language requirements).	0-12
Major Requirements:	**Sem. Hrs.**
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
CHEM 3154, Survey of Physical Chemistry	4
CHEM 4243, Biochemistry	3
PHYS 2054, General Physics I **AND** PHYS 2064 General Physics II **OR** PHYS 2034, University Physics I **AND** PHYS 2044, University Physics II	8
Sub-total	**35**
Electives: *Twenty-six hours of the electives below must be upper-level.*	**Sem. Hrs.**
Electives	**34-46**
Total Required Hours:	**120**

Major in Chemistry

Bachelor of Arts
Emphasis in Pre-pharmacy

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PHSC 1003, Making Connections - Chemistry and Physics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus I* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory* *ECON 2313, Principles of Macroeconomics* *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)*	**36**
Language Requirement:	**Sem. Hrs.**
(Refer to p. 353 for foreign language requirements).	0-12
Major Requirements:	**Sem. Hrs.**
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
CHEM 3154, Survey of Physical Chemistry	4
CHEM 4243, Biochemistry	3
PHYS 2054, General Physics I **AND** PHYS 2064 General Physics II **OR** PHYS 2034, University Physics I **AND** PHYS 2044, University Physics II	8
Sub-total	**35**
Emphasis Area (Pre-pharmacy):	**Sem. Hrs.**
BIO 1303 **AND** 1301, Biology of Animals and Laboratory	4
BIO 4104, Microbiology	4
Sub-total	**8**
Electives: *Twenty-two hours of the electives below must be upper-level.*	**Sem. Hrs.**
Electives	**26-38**
Total Required Hours:	**120**

Major in General Science

Bachelor of Science in Education
Emphasis in Chemistry

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PHSC 1003, Making Connections - Chemistry and Physics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus* *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* *HIST 2763, US History to 1876* ***OR*** *HIST 2773, US History since 1876* *PSY 2013, Introduction to Psychology* *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)*	**36**
Major Requirements:	**Sem. Hrs.**
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 2004, Descriptive Inorganic Chemistry	4
CHEM 3054, Quantitative Analysis	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
CHEM 3154, Survey of Physical Chemistry	4
PHYS 2034, University Physics I **OR** PHYS 2054, General Physics I	4
PHYS 2044, University Physics II **OR** PHYS 2064, General Physics II	4
Select three of the following: GEOG 3723, Introduction to Physical Geography GEOL 1003, Environmental Geology PHYS 1103, Introduction to Space Science **OR** PHYS 3133, Astronomy PHYS 3043, Atmospheric Dynamics	9
Sub-total	**41**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
*EDSC 4593, Methods and Materials for Teaching Science in the Secondary School	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Inst. Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TICH 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**
Additional General Requirements for Teacher Education:	**Sem. Hrs.**
HLTH 2513, Principles of Personal Health	**3**
Electives:	**Sem. Hrs.**
Electives	**5**
Total Required Hours:	**120**

The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

Major in Physics

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PHSC 1003, Making Connections - Chemistry and Physics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* *MATH 2204, Calculus* *PHYS 2034 University Physics I*	**36**
Major Requirements:	**Sem. Hrs.**
CHEM 1013 **AND** 1011, General Chemistry I and Laboratory	4
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CS 2114, Structured Programming	4
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
MATH 4403, Differential Equations	3
PHYS 2044, University Physics II	4
PHYS 3103, Thermal Physics	3
PHYS 3153, Mechanics	3
PHYS 3203, Electromagnetic Theory	3
PHYS 3303, Modern Physics	3
PHYS 3253, Optics	3
Physics Laboratory Experience (select one of the following combinations): PHYS 3272 Physical Instrumentation I **AND** PHYS 3282, Physical Instrumentation II **OR** PHYS 4432, Advanced Physics Laboratory I **AND** PHYS 4442, Advanced Physics Laboratory II	4
PHYS 4353, Mathematical Physics	3
PHYS 4553, Principles of Quantum Mechanics	3
PHYS 4693, Research in Physics - Capstone	3
Sub-total	**55**
Electives: *Ten hours of the electives below must be upper-level.*	**Sem. Hrs.**
Electives	**26**
Total Required Hours:	**120**

Major in General Science

Bachelor of Science in Education
Emphasis in Physics

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
PHSC 1003, Making Connections - Chemistry and Physics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus* *PHYS 2034, University Physics I* *HIST 2763, US History to 1876* ***OR*** *HIST 2773, US History since 1876* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)*	**36**
Major Requirements:	**Sem. Hrs.**
CHEM 1013 **AND** 1011, General Chemistry I and Laboratory	4
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CS 2114, Structured Programming	4
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
MATH 4403, Differential Equations	3
PHYS 2044, University Physics II	4
PHYS 3153, Mechanics	3
PHYS 3203, Electromagnetic Theory	3
PHYS 3303, Modern Physics	3
Select three of the following: GEOG 3723, Introduction to Physical Geography GEOL 1003, Environmental Geology PHYS 1103, Introduction to Space Science **OR** PHYS 3133, Astronomy PHYS 3043, Atmospheric Dynamics	9
Sub-total	**45**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
*EDSC 4593, Methods and Materials for Teaching Science in the Secondary School	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3
SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Inst. Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TIPH 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**

Major in General Science

Bachelor of Science in Education
Emphasis in Physics

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

Additional General Requirements for Teacher Education:	**Sem. Hrs.**
HLTH 2513, Principles of Personal Health	**3**
Electives:	**Sem. Hrs.**
Electives	**1**
Total Required Hours:	**120**

Department of Chemistry and Physics Minors

Minor in Chemistry

Required Courses:.	Sem. Hrs.
CHEM 1013 **AND** 1011, General Chemistry I and Laboratory	4
CHEM 1023 **AND** 1021, General Chemistry II and Laboratory	4
CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory	4
CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory	4
Select two of the following: CHEM 3054, Quantitative Analysis CHEM 3154, Survey of Physical Chemistry CHEM 4243 **AND** 4241, Biochemistry and Laboratory	8
Total Required Hours:	**24**

Minor in Physics

Required Courses:	Sem. Hrs.
PHYS 2034, University Physics I	4
PHYS 2044, University Physics II	4
PHYS 3303, Modern Physics	3
Upper-level Physics Electives *PHYS 3133 cannot count toward this requirement.*	7
Total Required Hours:	**18**

Department of Computer Science

Associate Professor Debra Ingram, Chair
Associate Professors: *Hammerand, Huang, Jenness, Jiang, Su*
Instructors: *Causey, Scrivner, Qualls*

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:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
CS 1093, Making Connections - Computer Science	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *PHYS 2054, General Physics I* *ECON 2333, Economic Issues & Concepts* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**35**
Language Requirement:	**Sem. Hrs.**
(Refer to p. 353 for foreign language requirements).	0-12
Major Requirements:	**Sem. Hrs.**
CS 1114, Concepts of Programming	4
CS 2114, Structured Programming	4
CS 2124, OOP and Fundamental Data Structures	4
CS 3113, Algorithms and Advanced Data Structures	3
CS 3233, Operating Systems	3
CS 4113, Software Engineering	3
CS 4143, Java and Application Development	3
CS 4313, Computer Networks	3
CS 4543, Database Systems	3
ENG 3043, Technical Writing	3
MATH 2183, Discrete Structures	3
MATH 2204, Calculus I **OR** MATH 2143, Business Calculus **OR** MATH 2194, Survey of Calculus	3-4
PHIL 3723, Computers, Ethics, and Society	3
STAT 3233, Applied Statistics I	3
Computer Science Electives *CS 1013 may not be used to satisfy this requirement. MATH 4533 may be used to satisfy this requirement*	9

Major in Computer Science

Bachelor of Arts

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

Business Track (Select all of the courses in one of the following tracks): **Electronic Commerce Track** CIT 3353, Mobile and Web Applications Development CIT 4453, Global E-Commerce MKTG 3013, Marketing GCOM 3673, Digital Design **Information Technology Track** CIT 3013, Management Information Systems CIT 2523, Telecommunications and Networking Essentials CIT 3623, LAN Administration BCOM 2563, Business Communication **General Business Track** ACCT 2023, Fundamental Accounting Concepts FIN 3713, Business Finance LAW 2023, Legal Environment of Business MGMT 3153, Organizational Behavior MKTG 3013, Marketing	12-15
Sub-total	**66-70**
Electives:	**Sem. Hrs.**
Electives *Three hours must be upper-level for students who select the Information Technology Track.*	**0-16**
Total Required Hours:	**120**

Major in Computer Science

Bachelor of Science

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
CS 1093, Making Connections - Computer Science	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus I* *PHYS 2034, University Physics I* ***OR*** *PHYS 2073* ***AND*** *2071, Fundamental Physics and Laboratory* *ECON 2333, Economic Issues & Concepts* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**36**
Language Requirement:	**Sem. Hrs.**
(Refer to p. 353 for foreign language requirements).	0-6
Major Requirements:	**Sem. Hrs.**
CHEM 1013 **AND** CHEM 1011, General Chemistry I and Laboratory	4
CS 2114, Structured Programming	4
CS 2124, OOP and Fundamental Data Structures	4
CS 3113, Algorithms and Advanced Data Structures	3
CS 3123, Programming Languages	3
CS 3223, Computer Organization	3
CS 3233, Operating Systems	3
CS 4113, Software Engineering	3
CS 4143, Java and Application Development	3
CS 4543, Database Systems	3
CS 4713, Analysis of Algorithms	3
EE 3333, Digital Electronics I	3
ENG 3043, Technical Writing	3
MATH 2183, Discrete Structures	3
MATH 2214, Calculus II	4
MATH 3243, Linear Algebra	3
PHIL 3723, Computers, Ethics, and Society	3
PHYS 2044, University Physics II **OR** PHYS 2083 **AND** 2081, Fundamental Physics II and Laboratory	4
STAT 3233, Applied Statistics I	3
Computer Science Electives *CS 1013 and CS 1114 may not be used to satisfy this requirement. MATH 4533 may be used to satisfy this requirement*	12
Sub-total	**74**
Electives:	**Sem. Hrs.**
Electives	**1-7**
Total Required Hours:	**120**

Department of Computer Science Minors

Minor in Computer Science

Required Courses:.	Sem. Hrs.
CS 2114, Structured Programming & Laboratory	4
CS 2124, OOP & Fund Data Structures & Laboratory	4
CS 3113, Algorithms & Adv Data Structures	3
CS 3223, Operating Systems	3
MATH 2183, Discrete Structures	3
Upper-level Computer Science Elective	3
Total Required Hours:	**20**

Department of Mathematics and Statistics

Associate Professor Debra Ingram, Chair
Professors: *Miao, Paulsen*
Associate Professors: *Melescue, Mitchell, Zhou*
Assistant Professors: *Ahn, Choi, Lambertus, Tunno*
Instructors: *Baltz, Carraway, Gibson, Gore, Griffin, Manning*

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

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MATH 1093, Making Connections - Mathematics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus I* *PHYS 2034, University Physics I* *Twelve hours in Social Sciences (Required Departmental Gen. Ed. Option), including one of the following:* *ANTH 2233, Introduction to Cultural Anthropology* *GEOG 2613, Introduction to Geography* *HIST 1013, World Civilization to 1660* *HIST 1023, World Civilization since 1660*	**36**
Language Requirement:	**Sem. Hrs.**
(Refer to p. 353 for foreign language requirements).	0-6
Major Requirements:	**Sem. Hrs.**
CS 2114, Structured Programming	4
MATH 2183, Discrete Structures	3
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
MATH 3243, Linear Algebra	3
MATH 3303, Modern Algebra I	3
MATH 4403, Differential Equations	3
MATH 4553, Advanced Calculus I	3
PHYS 2044, University Physics II	4
STAT 3233, Applied Statistics I	3
STAT 4453, Probability and Statistics I	3
Select one of the following: MATH 4423, Modern Algebra II MATH 4563, Advanced Calculus II STAT 4463, Probability and Statistics II	3
Mathematics or Statistics Electives (select four of the following): MATH 3273, Applied Complex Analysis MATH 3323, Mathematical Modeling MATH 3343, College Geometry MATH 3353, History of Mathematics MATH 4423, Modern Algebra II *If not taken to satisfy Major Requirements* MATH 4513, Applied Mathematics MATH 4533, Numerical Methods MATH 4563, Advanced Calculus II *If not taken to satisfy Major Requirements* STAT 4463. Probability and Statistics II *If not taken to satisfy Major Requirements*	12
Sub-total	**52**
Electives:	**Sem. Hrs.**
Electives (Eight hours must be upper-level)	**23-29**
Total Required Hours:	**120**

Major in Mathematics

Bachelor of Science in Education

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

University Requirements:	
See University General Requirements for Baccalaureate degrees (p. 41)	
First Year Making Connections Course:	**Sem. Hrs.**
MATH 1093, Making Connections - Mathematics	**3**
General Education Requirements:	**Sem. Hrs.**
See General Education Curriculum for Baccalaureate degrees (p. 84) **Students with this major must take the following:** *MATH 2204, Calculus I* *PHYS 2034, University Physics I* ***OR*** *PHYS 2054, General Physics I* *HIST 2763, The U.S. To 1876* ***OR*** *HIST 2773, The U.S. Since 1876* *POSC 2103, Introduction to United States Government* *PSY 2013, Introduction to Psychology* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*	**36**
Major Requirements:	**Sem. Hrs.**
MATH 2183, Discrete Structures	3
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
MATH 3243, Linear Algebra	3
MATH 3303, Modern Algebra I	3
MATH 3323, Mathematics Modeling	3
MATH 3343, College Geometry	3
MATH 3353, History of Mathematics	3
MATH 4553, Advanced Calculus I	3
STAT 3233, Applied Statistics I	3
STAT 4453, Probability and Statistics I	3
Sub-total	**35**
Additional Requirements:	**Sem. Hrs.**
Select one of the following courses: ANTH 2233, Introduction to Cultural Anthropology GEOG 2613, Introduction to Geography HIST 1013, World Civilization to 1660 HIST 1023, World Civilization since 1660	3
PHYS 2044, University Physics II **OR** PHYS 2064, General Physics II	4
Computer Science Elective	3
Sub-total	**10**
Professional Education Requirements: Grade of "C" or better required for all Professional Education Requirements. Courses denoted below with an asterisk (*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section.	**Sem. Hrs.**
*EDMA 4593, Methods and Materials for Teaching Science in the Secondary School	3
ELSE 3643, The Exceptional Student in the Regular Classroom	3
PSY 3703, Educational Psychology	3

Major in Mathematics

Bachelor of Science in Education

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SCED 2513, Introduction to Secondary Teaching	3
*SCED 3515, Performance Based Inst. Design	5
*SCED 4713, Educational Measurement with Computer Applications	3
*TIMA 4826, Teaching Internship in the Secondary School	12
Sub-total	**32**
Additional General Requirements for Teacher Education:	**Sem. Hrs.**
HLTH 2513, Principles of Personal Health	**3**
Electives:	**Sem. Hrs.**
Electives	**1**
Total Required Hours:	**120**

Department of Mathematics and Statistics Minors

Minor in Mathematics

Required Courses:.	Sem. Hrs.
MATH 2204, Calculus I	4
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
Mathematics or Statistics Electives (select three of the following): MATH 3243, Linear Algebra MATH 3273, Applied Complex Analysis MATH 3303, Modern Algebra I MATH 3323, Mathematical Modeling MATH 3343, College Geometry MATH 4403, Differential Equations MATH 4423, Modern Algebra II MATH 4513, Applied Mathematics MATH 4533, Numerical Methods MATH 4553, Advanced Calculus I MATH 4563, Advanced Calculus II STAT 4453, Probability and Statistics I STAT 4463. Probability and Statistics II	9
Total Required Hours:	**21**

Minor in Statistics

Required Courses:.	Sem. Hrs.
MATH 2214, Calculus II	4
MATH 3254, Calculus III	4
STAT 3233, Applied Statistics I	3
STAT 4453, Probability and Statistics I	3
STAT 4463, Probability and Statistics II	3
STAT 4473, Applied Statistics II	3
Total Required Hours:	**20**

Department of Military Science and Leadership

The faculty of the Department of Military Science at Arkansas State consists of: A Professor of Military Science (usually a Lieutenant Colonel); Three Assistant Professors (usually a Major and two Captains); and Two Instructors (usually a Master Sergeant and a Sergeant First Class). Their tours with the department last from two to three years.

GENERAL INFORMATION

The Army Reserve Officers' Training Corps (ROTC), is a series of elective college courses, which can lead to a commission as a second lieutenant in either the United States Army, United States Army Reserve or the U.S. Army National Guard. Participation in ROTC provides instruction in leadership and management and helps students develop self-discipline, physical stamina, and confidence. The ROTC program augments the University's objectives by emphasizing academic excellence and the development of personal integrity, honor, and responsibility. Upon commissioning, graduates will serve in the active Army, The United States Army Reserve, or the Army National Guard. Selection for active duty is based on the needs of the service, the individual's preference, and the individual's performance record. Almost any branch is available for those commissioned in the reserve forces (barring physical limitations).

ROTC PROGRAM

We have three paths for completion of our program which lead to a commission in the U.S. Army:

1. The first path is completion of both Military Science and Leadership (MSL) I and MSL II level courses (The Basic Course), followed by completion of the Advanced Program.
2. The second path is completion of any U.S. Armed Forces Basic Training, followed by completion of the Advanced Program.
3. The third path is completion of ROTC Leaders Training Course, followed by completion of the Advanced Program.

THE BASIC COURSE

Further defined: Physically able students, male or female, may enroll in the Basic Course without incurring a military obligation. The ROTC Basic Course consists of four courses designed to be taken one each semester during the freshman and sophomore years. No more than two courses may be taken simultaneously without the approval of the Professor of Military Science (PMS). All textbooks are provided at no charge.

U.S. ARMED FORCES BASIC TRAINING

Credit for completion of the basic course is granted for anyone who successfully completes Basic Training in the Army, Air Force, Marine Corps, or the Navy, whether it was active component, guard, or reserve. If Advanced Individual Training is also completed, six hours of elective credit may be available from the university.

LEADERS TRAINING COURSE

The university will grant up to six hours of elective credit for successful completion of the ROTC Leaders Training Course. The course consists of practical experience and instruction in tactical and technical military subjects with emphasis on leadership development. The course is four weeks in length and is conducted at Fort Knox, Kentucky. Students are paid for attendance (about $600), and provided travel to and from campus. Housing, uniforms, and meals are provided at no expense. Students attending the Leaders Training Course do incur a military service obligation.

THE ADVANCED COURSE

The ROTC Advanced Course consists of four courses designed to be taken one each semester during the junior and senior years (or graduate school). Students must attend the Leader Development and Assessment Course (LDAC) between their MSL III and MSL IV year. Upon entry into the Advanced Course, a student must sign a contract recognizing a service obligation. The obligation may be served in either the reserve components (Reserve Component duty can be guaranteed) or the Active Army

(depending on the needs of the Army). Cadets in the Advanced Course receive textbooks, uniforms, and a nontaxable subsistence allowance (10 months per year), as well as pay for attending the LDAC. Prerequisites for admission to the Advanced Course are:

1. Completion of the Basic Course, the Leaders Training Course, or U.S. Armed Forces Basic Training.
2. Physical qualification as determined by medical examination.
3, Selection by Professor of Military Science.
4. Under 32 years of age by the time of graduation (may be waived in certain cases).
5. Pass a screening evaluation.
6. At least two academic years remaining before graduation or be enrolled in graduate school.
7. A grade point average of 2.00 or better for all college work and completion of at least sixty semester hours of college work towards a baccalaureate degree. Applicants will normally be required to have achieved "junior" academic status.

In addition to the Military Science and Leadership courses, advanced course students must complete professional military education courses in the fields of Written Communication, Computer Literacy, Mathematic Reasoning, Human Behavior, and Military History. The Communication, Human Behavior, and Mathematic Reasoning requirements are normally met by the General Education Courses offered by the university. The Military History requirement must be met by completing one of several history classes offered. (Specific course requirements will be prescribed by the PMS, based on a review of the student's enrollment into the advanced course.) Field Training Exercises will be conducted to provide practical experience as required to supplement classroom training.

FINANCIAL ASSISTANCE

1. **ROTC Scholarships:**
   In addition to four-year Army ROTC scholarships which are awarded to high school seniors, two- and three-year Army ROTC scholarships are available to college freshmen and sophomores on a competitive basis. Applicants are judged on their potential and aptitude for military service and are evaluated by an academic board chaired by the Professor of Military Science (PMS). ROTC scholarships cover the cost of university tuition, textbook, laboratory fees, and a subsistence allowance for each school month depending on the number of hours completed by the student. High School students applying for four-year scholarships must have their packets completed by 10 January of their senior year. Three-year and two-year scholarship applications must be completed by the spring semester, prior to the first school year of the scholarship.

2. **Subsistence Allowance:**
   A monthly monetary allowance of $450-$500 for each school month is paid to students enrolled in the Advanced Course. During the ROTC LDAC, the student is paid approximately $700 for the 30 day camp period and provided travel to and from camp. Housing, uniforms, and meals are furnished at no expense to the cadet. The course is conducted at Fort Knox, Kentucky.

3. **Simultaneous Membership Program (SMP):**
   Individuals may enroll in the Military Science and Leadership Advanced Course while retaining membership in the Army National Guard or Army Reserve. Those wishing to serve in the Army National Guard or Army Reserve during enrollment in the Military Science and Leadership Advanced Course may do so except in certain cases. In addition to receiving cadet monthly subsistence, these individuals also receive pay (E5 or higher, from previously held grade) from their Army National Guard or Army Reserve unit and qualify for the Montgomery GI Bill and Federal Tuition Assistance benefits.

LEADERSHIP DEVELOPMENT

Military Science students are required to participate in a Leadership Laboratory in addition to classroom requirements. Training consists of military drill and ceremonies, field exercises, simulated leadership problems, and familiarization with Army weapons and equipment.

Minor in Military Science and Leadership

A minor in Military Science and Leadership can be granted only to those students who qualify for enrollment in the Advanced Course and subsequent commissioning as an officer in the U.S. Army.

Required Courses:. The Advanced Course and Military History Course are the only requirements for students that 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.	**Sem. Hrs.**
Basic Course: MSL 1011, Foundations of Officership MSL 1021, Basic Leadership MSL 2032, Individual Leadership Studies MSL 2042, Leadership and Teamwork	6
Advanced Course: MSL 3053, Leadership and Problem Solving MSL 3063, Leadership and Ethics MSL 4073, Leadership and Management MSL 4083, Officership	12
Military History Course	2-3
Total Required Hours:	**20-21**

The International Center for English

ENGLISH AS A SECOND LANGUAGE PROGRAM

The International Center for English (TICE) at Arkansas State University-Jonesboro has a dynamic and progressive English as a Second Language (ESL) program that actively serves students in obtaining English proficiency for undergraduate and graduate study.

The ESL program is comprehensive in design and structure, implementing a multi-pronged approach focusing on communicative language instruction. Classroom instruction, along with structured, practical activities promote and reinforce students' fluency. Instruction is implemented through methods similar to those experienced in the university classroom.

The program consists of five levels plus a Foundations of English level for students with little or no background in English. Courses in the four skills of reading, writing, listening, and speaking, along with specialized instruction with grammar and pronunciation, are conducted through content-based modules utilizing texts, activities, and student-centered instruction. The program interweaves reading, writing, listening, speaking, and related skills to further emulate real-life language usage, as well as experiences students will have while matriculating in the university. Students enrolled in the program can expect to be engaged in learning that facilitates language acquisition and provides a solid foundation in skills necessary for successful study at the university level. These skills include note taking, critical thinking and analysis, preparing and delivering oral presentations, working in groups, and academic writing.

ESL MISSION STATEMENT

The International Center for English provides quality instruction in English as a second language to prepare students for academic study at 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 Level 5 are eligible to enter undergraduate or graduate studies with no further need for language proficiency examination, such as the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).

Students must complete all course work with a grade of B or higher for all ESL courses from 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 along with 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 to receive this credit.

UNDERGRADUATE BRIDGE COURSE

The International Center for English is dedicated to serving the community of undergraduate international students matriculating at Arkansas State University. In particular, TICE is keenly aware of their need for support and assistance in the areas of academic and social adjustment due to cultural and language differences. To this end, TICE offers the Undergraduate Bridge Course, which assists students in making smooth transitions into the academic and social settings of the university. This course provides students with instruction on a variety of topics and issues such as understanding plagiarism and how to avoid it; working effectively in groups or pairs; preparing and delivering oral presentations; effective reading and writing skills and how to use resources for writing a research paper; how to interact with fellow classmates and instructors; and other skills of critical importance for university success. American conventions in these areas of academic work may be very different from those in students' home countries. The bridge course gives us the opportunity to help students to succeed in an environment of new academic standards and practices. All new and transferring undergraduate international students are required to take the Undergraduate Bridge Course during their first semester 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-mailing tice@astate.edu or by telephone at +1 870-972-3504.

Library and Information Resources

Jeffrey R. Bailey, Director of Library Information Resources

Library Faculty: *B. Banta, J. Corrin, L. Creibaum, W. Crist, L. Downing, S. Eskridge, T. Farmer, M. Flugstad, D. Hallett, S. Holloway, R. Payne, A. Sheppard, R. Robinette*

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. Years ago the library expanded from being a passive location for a collection of books and journals to providing library faculty who actively teach students to effectively use information resources. This includes accessing, selecting, evaluating, and using information tools in a variety of formats, including print, multimedia, and online. 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.

Course Descriptions

Courses included in the Arkansas Course Transfer System (ACTS) have their ACTS Course Index Numbers listed after the course description. For additional information, please see http://www.astate.edu/a/registrar/students/transfer-work/.

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 1950's
American Culture in the 1940'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

Additional Honors special topics are available based upon Honors student recommendations and interests. Students, through the Honors College Association (HCA), develop course ideas and work with professors to develop courses of immediate interest. After Submission to the Director of The Honors College, they are then presented to the Honors Council for adoption, scheduling, and offering.

**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.

Interdisciplinary Studies (IDS)

IDS 2013. Introduction to Interdisciplinary Studies Introduction to the concept of interdisciplinary study, exploration of research and career possibilities for IDS majors, and composition of individualized program of study. Fall.

IDS 2023. Introduction to Service Learning Introduction to principles of service learning and the Social Change Model of Leadership to promote personal learning, social growth, and civic responsibility. Students participate in a community-based project as determined by the instructor of record. Fall.

IDS 3013. Critical Thinking in the Profession Exploration of the role of critical thinking in a range of professional settings through reading, writing and communication using technology, professionally-prepared materials, and statistical charts. Basic overview of the research writing process is included. Prerequisites, ENG 1013, and CIT 1503 or CS 1013. Fall, Spring, Summer.

IDS 3023. Advanced Service Learning Course integrates academic objectives with service experiences to foster student learning, personal and social growth, and civic responsibility. Students establish expectations and responsibilities to address a campus or community need in partnership with the community-based service project. Course theme determined by instructor at time of instruction. Prerequisites, IDS 2023. Spring.

IDS 4013. Seminar in Professional Development The capstone experience is designed to ensure BSIS students meet their individualized educational goals upon graduation. Students will develop and articulate employment skills for each area of study and enhance workplace skills including professional-level reading, writing and communications. Open to any student with senior-level standing (90 or more earned college credits). Fall, Spring, Summer.

IDS 4023. Leadership in the Profession Independent study of a specific problem in a professional setting relevant to one or more of a student's BSIS emphasis areas. Student will present a formal plan of action using solutions grounded in leadership theory. Prerequisites, ENG 1013, UC 3013, and CIT 1503 or CS 1013. Fall, Spring, Summer.

University College (UC)

UC 0143. Writing Fundamentals Developmental writing course designed to prepare students for ENG 1003 whose ACT writing score is below 17. Focus is on grammar, sentence structure, paragraphs and essays. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. Fall, Spring, Summer.

UC 0153. Enhanced College Reading Non-credit course designed to provide students having an ACT Reading subtest score below 17 with reading instruction that is applicable to all types of reading including strategies specific to the content areas. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. Fall, Spring, Summer.

UC 0164. Academic Literacy Developmental course to prepare students for college level reading and writing, to be taken concurrently with ENG 1003. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. Fall, Spring, Summer.

UC 0173. Developmental Mathematics I Prepares students for college level mathematics courses using individualized computer-based curriculum. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. Fall, Spring, Summer.

UC 022V. Developmental Mathematics II Prepares students for college level mathematics courses using individualized computer-based curriculum. Continuation of UC 0173. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. 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 a first academic suspension or by referral from the Admissions and Credits Committee. Fall, Spring.

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

UC 1011. College Choices Seminar This seminar is designed to offer supplemental academic advising and to teach college success skills for first-year students on academic probation. Fall, Spring.

UC 1013. Making Connections Required course for all first semester freshmen. Course content is centered around the skills and knowledge needed to be a successful ASU student, including academic performance, problem solving, critical thinking, self management and group building skills, university policies and other relevant issues. Fall, Spring.

UC 1021. Advanced Reading Strategies. Follow up course to UC 0153 Enhanced College Reading for those students whose standardized test scores indicate need for additional instruction and practice. Fall, Spring, Summer.

UC 1032. FYS Success Strategies. A required sequential course to Making Connections for students admitted through First Year Studies that allows more in-depth coverage of topics related to college success. Prerequisite, UC 1013. Fall, Spring, Summer.

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

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

UC 1151. Stress Management 101 This course is a one credit elective to introduce students to basic theoretical and practical concepts of stress management with a focus on personal application to help prevent or reduce cognitive, emotional, and physical symptoms resulting from distress. Spring.

UC 200V. Special Topics Individual study arranged in consultation with the instructor. Course may be used by any college but must be approved by the Dean of University College, department chair, and College Dean prior to enrollment. One - four credit hours; may be repeated but may not exceed four hours total. Demand.

UC 2013. Advanced Reading and Writing Addresses the needs of international transfer students with demonstrated deficiencies in reading and writing English.

UC 2033. University College Internship First-hand field experience that will vary based on student goals and internship placement. Experience supplemented by weekly online curriculum. Prerequisites, 30 credit hours and 2.00 GPA. Demand.

UC 3011. Professional and Career Development for Juniors and Seniors This is an elective, one credit class for seniors and juniors in all disciplines. Weekly workshops will be presented by area employers and professionals to enhance students' professional development skills necessary to be successful in today's workplace. Demand.

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

UC 301V. Study Abroad ASU students participating in approved exchange programs will register for this course. Students must apply in the Office of International Programs. Fall, Spring, Summer.

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

UC 3331. McNair Research Seminar

UC 4003. Washington Center Civic Engagement and Leadership Provides understanding of the attributes of civic engagement, professional achievement and leadership development. Participation in the Washington Center Internship program required. Demand.

UC 401V. Washington Center Internship Washington Center for Internships and Academic Seminars Program Internship. Demand.

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

COLLEGE OF AGRICULTURE AND TECHNOLOGY

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

Agricultural Business and Economics (AGEC)

AGEC 1003. Introduction to Agricultural Business Structure and organization of agricultural business. Basic economic principles and their application to agriculture. Fall, Spring.

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

AGEC 3013. Agricultural Records Selection of appropriate systems for farm records and agribusiness applications, computerized business accounting, spreadsheets and decision aids, and word processing applications for reports and communication. Prerequisite, AGEC 1003 or instructor approval. Fall, Spring.

AGEC 3023. Cooperatives Organization, capitalization, and management of cooperative businesses. Operational practices and problems. Role of cooperative organizations in agricultural business. Prerequisite, AGEC 1003 or ECON 2313 or ECON 2323. Fall.

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

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

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

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

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

AGEC 4033. Agricultural Law Farm laws pertaining to land purchases, legal descriptions, leases, mortgages, security agreements, fences, drainage, irrigation, pollution, and quarantines. Prerequisite, AGEC 1003 or ECON 2313 or ECON 2323. Spring.

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

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. Fall, 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.

AGEC 4173. Natural Resource Economics Comprehensive overview of economics of natural resource and environment. Theoretical and empirical analysis, valuations and examinations of sustainable quality of environmental and natural resources over time. Economic reasoning for examining natural resource problems and measures for dealing with them. Prerequisites, AGEC 1003 or ECON 2313 or ECON 2323 or consent of instructor. Dual Listed AGEC 5173. Demand.

AGEC 419V. Special Problems in Agricultural Economics For students of senior standing. Approval of the instructor and dean necessary. Credit of one, two, or three hours as arranged. Spring, Fall, Summer.

Agricultural Education (AGED)

AGED 1403. Basic Agricultural Mechanics Introduction to basic wood and metal working tools and equipment used in most mechanics laboratories. Instruction focuses on safety, project design, tool and equipment use. Fall, Spring.

AGED 1411. Introduction to Agricultural and Extension Education Philosophy, aims, and objectives of agricultural and extension education. Explanation of programs, career opportunities, and qualifications in agricultural and extension education. Fall.

AGED 1441. Emphasis on tree identification, instruments and equipment, tree disease and disorders, forest product uses, timber stand improvement, general principles of forest management, map and compass reading, and pulp and sawlog volume estimation. Spring.

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

AGED 3433. Agricultural Equipment Hydraulic Systems Study of the design, theory of operation, and maintenance of agricultural equipment hydraulic systems. Includes troubleshooting and team solutions to functional system problems. Prerequisites, MATH 1023. Spring, even.

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

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

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

AGED 445V. Practicum in Agricultural Communications Practicum provides opportunities for students to gain practical experiences in a real working environment with trained professionals in the communications field. Fall, Spring, Summer.

AGED 4462. Agricultural Youth Organizations Introduction to the history, purposes, parliamentary procedure, and membership and awards structure. Emphasis on leadership development and advisor 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. Dual Listed AGED 5473. Summer, even.

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 1213. Making Connections in Agriculture First semester freshman course centered around the skills and knowledge needed to be a successful ASU College of Agriculture student, including academic performance, problem solving, critical thinking, self management, university policies, issues, trends, and disciplines in agriculture. Fall.

AGRI 2213. Genetic Improvement of Plants and Animals Introduction to agriculturally important plant and animal traits and the methods used to incorporate these into favorable combinations. Spring.

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

AGRI 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. Prerequisites, AGRI 1213, AGEC 1003, ANSC 1613, PSSC 1303 and PSSC 2813. Prerequisites or corequisites, AGRI 3233 or ECON 2113 or STAT 3233. Fall, Spring.

AGRI 420V. Internships in Agriculture Provides field based experience in private business, industry or public agencies which will enhance knowledge and skills needed for career advancement, approval of Internship Committee required. Spring, Fall, Summer.

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

AGRI 4523. Applied Modern 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. Dual-listed with AGRI 5523. Fall.

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

AGRI 4433. Organic Agriculture Production Principles and practices of organic production in plant and animal systems including: certification requirements, soil fertility, crop rotation, variety and breed selection, health management strategies, optimizing yield and quality, nutrition and feeding, ethical issues, processing, storage and marketing. Prerequisites, PSSC 1303 and ANSC 1613, or permission of instructor. Dual-listed with AGRI 5433. Spring, odd.

AGRI 4773. Remote Sensing The course will cover the image acquisition and image processing methods using ERDAS Image software as the analytical assessment package. Prerequisite, PSSC 3503 or permission from Instructor. Fall, even.

Animal Science (ANSC)

ANSC 1522 Beginning English Equitation Introduction to English equitation and the care and management of riding horses. Fall.

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

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 2012. This is an Advanced Equitation course that focuses on the training and exhibition of a versatile Western Stock Horse. Prerequisites, ANSC 1602 or ANSC 1612. 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. Fall.

ANSC 3003. Small Animal Nutrition Fundamental concepts of nutrition applied to companion animals including dogs, cats, and other common pets. Prerequisite, ANSC 1613 or BIO 2013. Spring, 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 BIOL 1003 or BIO 2013. Fall.

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 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. Prerequisite, ANSC 1613. 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. Fall, even.

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

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 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. Summer, even.

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

ANSC 4743. Equine Nutrition This course provides students an understanding of the principles of nutrition and their application to feeding horses. Digestive physiology, feed ingredients, feeding and grazing programs for various classes of horses and interactions of nutrition, diseases, and environment will be discussed. Prerequisite, ANSC 1613 or permission of instructor. Summer.

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

Methods and Materials Teaching Agricultural Education (EDAG)

EDAG 4623. Special Methods for Teaching Agricultural Education Overview of major components of an efficient agriculture department at the secondary school level. Emphasis on teaching methods and materials required for the agriculture classroom and mechanics laboratory. Opportunities for course planning, classroom management, record development, and career development. Must be admitted to the Teacher Education Program. Spring.

Horticulture (HORT)

HORT 2253. Fundamentals of Horticulture Growth, fruiting habits, propagation, and culture of horticultural plants. Lecture two hours, laboratory two hours per week. Fall, even.

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. Spring, even.

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

HORT 3273. Turf Management The turf industry, characteristics, adaptation, and establishment of the grasses. Prerequisites, PSSC 2813, PSSC 2811, and HORT 2253. Fall, odd.

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. Fall, even.

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

HORT 4233. Commercial Vegetable Production Origin, nutritive value, botany and cultural production practices of major vegetable crops, emphasizing sustainable practices, soil management, IPM for insects, diseases and weed, with discussion of organic practices and economics of wholesale farmers' markets. Prerequisite PSSC 1303. Spring, 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. Spring, odd.

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. Fall, even.

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. Spring, even.

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. Fall, even.

HORT 429V. Special Problems in Horticulture For students of senior standing. Approval of instructor and dean necessary. Fall, Spring, Summer.

HORT 4323. Plant Propagation Principles, practices, and methods employed in the propagation of plants. Prerequisite, HORT 2253. Spring, even.

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, Spring.

PSSC 3313. Plant Disease Management Introduction to management of plant diseases. Major concepts include genetic, cultural, and biological controls as related to management of plant systems. Self study course utilizing computer technology, seminars, and laboratory exercises. Prerequisites, PSSC 1303. Spring.

PSSC 3323. Weeds and Weed Control Identification and pest management of weeds in agronomic, horticultural, and urban systems. Survey of herbicides, their chemistry, toxicology, modes of action, uses, and environmental impact. Lecture two hours and laboratory two hours per week. Prerequisites, CHEM 1013 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. Spring, odd.

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. Prerequisite, PSSC 3503. 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 4313. Plant Growth and Development Auxins, gibberellins, and various other regulators of plant growth, also phenomena such as flowering and dormancy. Prerequisites, CHEM 1052, HORT 2253 and PSSC 1303. Fall.

PSSC 4343. Seed Production, Processing and Analysis Methods of producing quality seeds and seed stocks, processing methods, and techniques of seed analysis and grading. Prerequisite, PSSC 1303. Spring, even. Dual-listed with PSSC 5343.

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 4543. Advanced GIS for Agriculture and Natural Resources Principles and advanced techniques of using Geographic Information System (GIS) concepts, equipment, and software used in agricultural, environmental, and natural resource applications. Prerequisite, AGRI 3543 with a grade of B or better. Spring.

PSSC 4713. Soil Quality Assessment and Interpretation A study of the indicators of soil quality, documentation and measurement of soil quality, interpretations of soil quality, impacts and effects of management of soil quality, and the role of conservation planning in improving soil quality. Prerequisite, PSSC 2813. Fall, even.

PSSC 4804. Principles of Crop Production Introduction to agronomic cropping systems which includes production systems, concepts related to crop selection and genetics, establishment and management of the crop, and harvest management. Environmental issues related to crop production and sustainability are also evaluated. Prerequisites, PSSC 1303 and PSSC 2813. Spring, Odd.

PSSC 4813. Soil Fertility Principles involved in maintaining and increasing fertility of soil. Prerequisite, PSSC 2813, and CHEM 1013 and CHEM 1011 or CHEM 1043 and CHEM 1041. Spring.

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. Fall, odd.

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 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 and CHEM 1011. Fall.

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. Spring.

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. Fall.

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. Spring.

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. Fall.

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. Spring.

Technology (TECH)

TECH 2453. Technology Design Solid Works I Drawing and detailing with SolidWorks, a design automation software package used to produce parts, assemblies and drawing. Fall.

TECH 2703. Technical Graphics and AutoCAD Create and read technical drawings using basic graphics techniques. Topics covers include technical graphics, transition from traditional drawings to computer graphics, fundamentals of AutoCAD. Prerequisite, MATH 1023, Fall.

TECH 2863. Principles of Technology The role and function of technology development in human resources. Course provides an introduction to the concepts and philosophies of the technical work place and the use of technologies. Fall.

TECH 3403. Pro ENGINEER A study of types of parent and child relation using constraints in CAD and CAM. Prerequisites, TECH 2453. Spring, odd.

TECH 3413. AutoCAD Inventor This is a beginning level 1 course in CAD. This course is designed to demonstrate how AutoCAD is used in model parametric space. This course will only deal with 2d mechanical, electrical and civil aspects of CAD. Prerequisite, TECH 2453. Fall.

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 sire frame, surface, and solid models, how to modify them, and how to display them. Prerequisite, TECH 3413. Spring.

TECH 3453. Advanced Technology Design Solid Works II Continuation of Technology Design, SolidWorks I. Prerequisite, TECH 2453. Spring, even.

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. Spring, odd.

TECH 3713. Fiscal Aspects An introduction to fiscal structures and problems encountered in the technically oriented enterprise. Fall.

TECH 372V. Technical Career Subjects Through this course students having work experience and company sponsored training will undergo portfolio assessment to determine credit hour award. Course may be repeated. No more than 25% of the degree may be satisfied with this course and TECH 189V. 1 to 9 hours. Fall, Spring.

TECH 3753. Legal Aspects An introduction to the types of legal problems encountered in the technically oriented enterprise. Fall, even.

TECH 3773. Statistics Basic concepts and methods of statistics in a technical environment, including descriptive statistics, significant tests, estimation, sampling, and correlation. Fall.

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. Spring.

TECH 3813. Programmable Logic Control Introduction to programmable logic controllers. Topics will include programming basics, instruction sets, maintenance and trouble shooting, program editing and the use of EEPROM memory modules. Prerequisite, TECH 3803. Spring.

TECH 3823. Mechanics I Introduction to statics and dynamics at the technologists level. Topics will include resultants and equilibrium of force systems, friction centroids, moments of inertia, plane motion, working energy. Prerequisite, MATH 1033. Fall.

TECH 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.

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. Spring, even.

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. Fall.

TECH 3873. Tool Design Application of the theory developed in the fundamental technology courses to the design and fabrication of jigs, fixtures, and dies. Prerequisites or corequisites, TECH 2453 or TECH 3413. Fall, even.

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. 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. Advisors approval is required. 1 to 3 hours. Fall, Spring, 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. Fall, Spring, Summer.

TECH 4743. Computer Numeric Control Basic terminology for computer aided manufacturing, interpretation of mechanical drawings in manufacturing, and learn manual G Code programming. Prerequisites, MATH 1033 and TECH 2453. Fall, odd.

TECH 4783. Manufacturing Concepts and philosophies of manufacturing technology and their roles in factories. Prerequisite, Senior Standing in Technology. Fall, even.

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. Summer.

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 1023. Fall.

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. Spring.

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. Spring.

TECH 4853 Lean 6 Sigma for Manufacturing Principles of Lean Manufacturing including strategies to eliminate waste and reduce coste, and continuous quality improvement using the principle of Six Sigma; advanced quality assurance terminology and application of statistical practices in manufacturing management. Prerequisite, TECH 3773. Prerequisite or corequisite, TECH 4823. Spring.

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.

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.

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. Fall, Spring, Summer.

Teaching Internship (TIAG)

TIAG 4825. Agricultural Teaching Internship in the Secondary School Ten semester hours. Full semester teaching internship. Fall, Spring.

TIAG 4826. Agricultural Teaching Internship in the Secondary School Twelve semester hours. Full semester teaching internship. Fall, Spring.

Technical and Vocational Education (VOED)

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.

VOED 4513. Hands On Activities and Observation Experiences for Career Development Opportunity to study, develop, and demonstrate the essential facets of hands on activities according to the instructional material in career development. 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 Development Curricula, methods, and techniques involved in teaching career development 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. Spring, odd.

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. Summer, odd.

COLLEGE OF BUSINESS

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

Business (BUSN)

BUSN 1003. First Year Experience Business Required course for all first semester freshmen. Course content is centered around the skills and knowledge needed to be a successful ASU student, including academic performance, problem solving, critical thinking, self management and group building skills, university policies and other relevant issues. Fall.

DEPARTMENT OF ACCOUNTING

Accounting (ACCT)

ACCT 2023. Fundamental Accounting Concepts Primary emphasis will be in developing an understanding of the fundamental accounting concepts, with secondary emphasis on procedural mechanics. In addition, the student should develop an awareness of the language and environment of American business, an appreciation of accounting methodology, and skill in problem solving. Open only to students not majoring in the College of Business. Fall, Spring.

ACCT 2033. Introduction to Financial Accounting Introduction to accounting and the accounting cycle. Basic accounting and reporting for merchandising and service oriented business organizations. Primary emphasis is on accounting principles applicable to measuring assets, liabilities, owners equity and income. Special measurement problems for partnerships and corporations. Fall, Spring, Summer. (ACTS#: ACCT 2003)

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. (ACTS#: ACCT 2013)

ACCT 3003. Intermediate Accounting I An in depth study of accounting statements, the accounting process, and inventory valuation procedures. Prerequisite, ACCT 2133 with C or better. Fall, Spring, Summer.

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 3063. Hospitality Accounting The accounting principles, concepts, conventions, and information systems utilized in management decision making for the hospitality industry. Focus on internal control, cost control, budgeting, and analysis of financial data. Prerequisite, “C” or better in ACCT 2133. Fall.

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 2133 with C or better. Fall, Spring.

ACCT 4033. Accounting Information Systems Study of the role, design, characteristics, and function of accounting information systems. Prerequisites, ACCT 4053 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, fiduciaries, and corporations. Prerequisite, ACCT 4013. Fall.

ACCT 4123. Government and Not-For-Profit Accounting Accounting concepts and reporting standards for state or local government entities and not-for-profit organizations. Emphasis is on areas covered in CPA exam content specifications. 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. Fall.

ACCT 4153. Fraud Examination A study of how and why occupational fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. Prerequisite ACCT 2133 with C or better. Spring.

ACCT 4163. Estate Planning and Taxation Introduction to estate planning, including transfer of different types of property during life and at death, documents used in estate planning, and taxation of property transfers at the state and federal levels. Prerequisite, ACCT 4013. Spring.

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

ACCT 4783. Internship in Accounting Provides practical financial, managerial, or not for profit experience through work in a meaningful capacity. Prerequisite, 12 hours of accounting above the principals level and approval of departmental chair. Fall, Spring, Summer.

DEPARTMENT OF COMPUTER AND INFORMATION TECHNOLOGY

Business Technology (BTEC)

******IMPORTANT INFORMATION******

EDBU 4533 METHODS AND MATERIALS IN TEACHING BUSINESS TECHNOLOGY and TIBU 4825 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 engine. 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 EDBU 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 1503. Microcomputer Applications Students will learn basic computer skills that can be used immediately, throughout college, and beyond. Emphasis on learning basic office applications in word processing, spreadsheets, databases, and presentation graphics. Fall, Spring.

CIT 2033. Programming Fundamentals An introduction to Windows programming using Microsoft Visual Studio or a similar integrated development environment. Students learn to write programs using an object oriented programming language and incorporating sequence, selection, and repetition structures. Prerequisite, CIT 1503 or CS 1013. 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 job simulations in legal, medical, technical, accounting, and other firms. Prerequisite, Keyboarding I or equivalent. Summer. (ACTS#: BUSI 1103)

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. Prerequisite, CIT 1503 or CS 1013. Fall, Spring, Summer.

NOTE: CIT 3013 is a prerequisite or corequisite for ALL upper-level CIT courses.

CIT 3033. Intermediate Programming Continuation of CIT 2033 (Programming Fundamentals). Uses language taught from previous semester in CIT 2033. Emphasis is on array processing, multiple document applications, database interactivity, and programmer-written functions and classes. Prerequisite, C or better in CIT 2033, or permission of instructor. Spring.

CIT 3353. Mobile and Web Applications Development Development of web and mobile applications from design to deployment. Includes markup, client-side and server side, stylesheet, and related languages, as well as associated development technologies. Prerequisite, programming course with a grade of C or better. Fall, even.

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, C or better in CIT 3403. 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 CS 1013. 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. Fall, odd.

CIT 3853. Computer Forensics Students are introduced to information systems role in forensic computing. Emphasis will be on the retrieval, preservation, and analysis of computer data which might be used in legal cases. Suggest previous criminology courses or experience for FOSC majors before enrolling. Prerequisite, CIT 1503 or CS 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 4453. Global E-Commerce Provides an understanding of the technologies behind E-commerce and how they enable the delivery of goods and services using electronic formats in a global context. 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. Fall.

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 4523. Advanced Network Telecommunications This course builds on the fundamental concepts covered in CIT 2523 by extensive coverage of major topics that include routing protocols, wireless LAN infrastructure, internetworking hardware, TCP/IP subnetting, VLANs, and network security. Prerequisite, CIT 2523. Spring, even.

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 included, Word Processing, Spreadsheet, Database, and electronic presentations. Prerequisite, CIT 3503 and CIT 3533. 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, odd.

CIT 4653. Automatic Data Capture Methods, technologies, systems, and standards used in supply chain information systems and e-business for automatically identifying objects, and collecting and transferring data. Technologies such as bar coding, RFID, smart cards, magnetic striping, biometrics, GPS, real time locating, and voice data entry, as well as their business applications are addressed. Prerequisites, CIT 2033 and CIT 2523. Corequisite, CIT 3403. 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.

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.

Teaching Internship (TIBU)

TIBU 4825. Business Teaching Internship in the Secondary School Ten semester hours. Full semester teaching internship. Fall, Spring.

TIBU 4826. Business Teaching Internship in the Secondary School Twelve semester hours. Full semester teaching internship. Fall, Spring.

DEPARTMENT OF ECONOMICS AND FINANCE

Economic Education (ECED)

ECED 3513. Economics for Teachers Designed to give school teachers an overall view of the structure and operation of our economic system. Emphasis will be placed on preparing teachers to utilize economic concepts in analyzing current economic problems. For Education majors only, no credit for business majors. Demand.

ECED 406V. Seminar in Business Issues Advanced seminars on selected business topics designed to provide in service teachers with an in depth examination of the issues surrounding those topics. Demand.

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. Prerequisites, MATH 1023 or MATH 2143, and CIT 1503 or CS 1013. Fall, Spring, Summer. (ACTS#: BUSI 2103)

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. (ACTS#: ECON 2103)

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. (ACTS#: ECON 2203)

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 2313 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 provides training on the skills for managing an export business. Coverage includes export promotion and incentives, lines and letters of credit, foreign exchange issues, international trade logistics, export documentation, and security and regulatory issues. Prerequisites, Completion of 60 hours. Spring.

ECON 4303. Economics of Sports Applies microeconomic theory to the sports industry. The course includes discussions of the economics of professional and intercollegiate athletics, applying the concepts of the collective bargaining, cartel behavior, game theory, antitrust issues, and public finance. Prerequisite, ECON 2323. Fall.

ECON 4313. History of Economic Thought Brief review of the doctrines of economic thinkers from early time through Marshall. Broader study of modern writers and theories. Prerequisites, ECON 2313 and 2323, or ECON 2333. Demand.

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 2013. Personal Asset Management Financial assets as vehicles for saving for the future, investments in combinations of assets to meet financial objectives, and how the financial objectives will change over the life span of the investor. Fall, Spring.

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 non-business 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 3813. International Financial Management and Banking Study of financial concepts and issues in banking as they relate to business decisions in a global economy. Demand.

FIN 4013. Financial Wealth Management The application of financial planning topics to realistic scenarios and case studies involving personal and small business financial planning. Prerequisites, FIN 2013 or 4723. Corequisites, ACCT 4013, ACCT 4163, and LAW 4043. Spring.

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 (LAW)

LAW 2023. Legal Environment of Business Introduction to the fundamental elements of the Anglo American legal system and its common law origins. The scope of the course will include the application and operation of the legal system in the remedy of business disputes, the development and operation of the court system, and the regulation of American business and industry by the United States government. Fall, Spring, Summer. (ACTS#: BLAW 2003)

LAW 4033. Law of Commercial Transactions Business related legal subject matter reflecting marketplace problems and considerations. Topics include the law of sales, secured transactions, commercial paper, contracts, and bankruptcy. Prerequisite, LAW 2023. Demand.

LAW 4043. Law of Business Organizations Business related legal subject matter reflecting marketplace problems and considerations. Topics include the law of corporations, partnerships, agency, and property. Prerequisite, LAW 2023. Fall, Spring, Summer.

LAW 4053. Employment Law Analysis of current employment law practices as applied to human resource management, with emphasis on federal and state civil rights laws. Prerequisites, LAW 2023. Spring.

LAW 4063. Hospitality Law A comprehensive study of the legal aspects of the hospitality industry with an emphasis on compliance and prevention of liabilities. Prerequisite, LAW 2023. Fall.

LAW 459V. Special Problems in Law Individual problems in law arranged in consultation with the instructor. Must be approved by department chair. Prerequisite, LAW 2023. Fall, Spring, Summer.

Real Estate and Insurance (REI)

REI 3413. Real Estate Practice Introductory study of real estate business, basic principles of real property ownership, utilization, and transfer, mortgage financing, brokerage, management, valuation, and subdividing. Fall, Spring.

REI 3423. Real Estate Brokerage and Management Organization and conduct of real estate brokerage and managerial business and professional activities. Social, economic, legal, and ethical responsibilities of the real estate broker and real property manager. Demand.

REI 3513. Risk and Insurance Introductory study of the insurance business, risk theory, the insurance mechanism, fundamental legal principles and insurance contract analysis. Emphasis on the insurance needs of a typical American family. Fall, Spring.

REI 4413. Real Estate Law Study of the law of real estate, including the nature of real property, the real estate transaction, land use and regulation, and other legal issues in ownership, financing, leasing, development and sale of real property. Spring.

REI 4423. Real Estate Finance Instruments, techniques, and institutions of real estate finance, sources of funds, mortgage risk analysis, emphasis on typical policies and procedures used in financing of residential, industrial, and commercial properties. Spring.

REI 4433. Real Estate Appraising Factors influencing real property values, application of three approaches in determining the value of residential, commercial, and industrial properties. Fall.

REI 4443. Appraising and Investment Application of techniques used in analyzing potential return from income properties to arrive at investment decisions and estimates of real estate values. Prerequisite, REI 4433 or consent of instructor. Demand.

REI 4513. Property and Liability Insurance Analysis of risk theory, property and liability risks, and the economic functions of property insurance. The course treats traditional and modern theories of risk, property and liability coverages, and functional insurance areas. Spring.

REI 4543. Life Insurance Analysis of the economic functions of life insurance. Attention is centered on the human life value concept and the basic forms of life insurance and annuities. Legal aspects, contractual provisions and health and other specialized forms of human life value insurance are studied. Fall.

REI 459V. Special Problems in Real Estate and Insurance Individual problems in real estate and insurance arranged in consultation with the instructor. Must be approved by department chair. Fall, Spring, Summer.

REI 460V. Internship in Real Estate and Insurance Practical training in real estate or insurance within appropriate companies or agencies. To earn intern credit, each student will be expected to spend two hours with the firm per week per credit hour awarded. Prerequisites, REI 3413, for real estate, or REI 3513, for insurance, and approval of instructor. These prerequisite courses permit an individual to hold a valid license to practice in each respective field after passing the proper licensing examination. Internship requires a Junior classification or above. Demand.

DEPARTMENT OF MANAGEMENT AND MARKETING

Business Communications (BCOM)

BCOM 2563. Business Communication Theories and principles of written, interpersonal, and oral communication. Prerequisite, ENG 1013. Fall, Spring, Summer. (ACTS#: BUSI 2013)

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 socioeconomic, 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.

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 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.

MGMT 4173. Compensation Management Design and administration of compensation systems. Deals with determinants of general pay level, job evaluation, wage and salary survey, fringe benefit plans and the impact of current government regulations on pay structures. Prerequisite, MGMT 3143. Spring, Demand.

MGMT 4183. Family Business Management Explores the challenges faced by family members directly involved in a family business. Topics discussed include business culture, entrepreneurial influences, family and non-family conflict, and needed survival skills for sons or daughters. Summer.

MGMT 4193. Management Internship Provides practical management experiences in personnel or industrial management. Senior students will be assigned to work with a regional firm, supervised by an experienced professional to gain real world training. Prerequisites, MGMT 3153 and consent of instructor. Fall, Spring, Summer.

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

MGMT 4393. Management of Service Operations Examines issues essential to the success of a service oriented operation. Topics include, classification of services, service design and process selection, service, delivery system, capacity analysis, location, layout, automation, quality control, and scheduling. Heavy emphasis placed on case studies and analysis of real world scenarios. Demand.

MGMT 4813. Strategic Management Designed to give students the opportunity to study administrative processes under conditions of uncertainty including an integrating analysis applied to all fields of business. Special emphasis is given to policy determination at the overall management level. Prerequisite, Senior standing, last semester, and completion of all other College of Business core requirements. Strategic Management may not be taken by correspondence. Fall, Spring, Summer.

Marketing (MKTG)

MKTG 1013. Introduction to Business Basic concepts and major functions of business, and information to help students become better consumers. Recommended for non-business majors and College of Business freshmen or sophomores. Special course fees may apply. Fall, Spring, Demand.

MKTG 3013. Marketing Business activities performed which direct the flow of goods and services from producer to consumer or user in order to satisfy customers and accomplish company objectives. Special course fees may apply. Fall, Spring, Summer.

MKTG 3023. Applied Research Systematic gathering, organizing, and analyzing data to provide managers with information they need to make better decisions. Emphasis is placed on the use of secondary data. Report writing and presentation are stressed. Special course fees may apply. Prerequisites, ECON 2113 and BCOM 2563. Fall, Spring, Demand.

MKTG 3033. Advertising and Promotion The study of advertising and other communication methods including social media designed to create desired outcomes with target audiences . Special course fees may apply. Prerequisite, MKTG 3013. Demand.

MKTG 3043. Retailing Evaluation of the many elements in the dynamic retail field and a discussion of the responses of retailing institutions, including management policies and operating methods. Special course fees may apply. Prerequisite, MKTG 3013. Demand.

MKTG 3063. Transportation Introduction to transportation systems with emphasis on the significance of transportation in the business and economic environment. The course is designed to familiarize students with a development of our transportation network, transportation prices, rate theory, and regulatory policies and procedures. Special course fees may apply. Prerequisite, ECON 2323. Spring.

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 4023. Services Marketing Application of marketing to service industries, with emphasis on the unique nature of services marketing when developing marketing strategies. Special course fees may apply. Prerequisite MKTG 3013.

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 4073. Social Media Marketing Examination and application of concepts of brand relationships using social media including consumer-to-consumer-to-brand communication. Current social media tools will be used in experiential learning designed to execute strategic marketing plans for business, government, and nonprofit entities. Prerequisite, MKTG 3013. Spring.

MKTG 4083. Marketing Research Design and Analysis Processes involved in gathering, recording, and analyzing all facts about problems relating to the transfer and sale of goods and services from producer to consumer. Special course fees may apply. Prerequisites, MKTG 3013 and MKTG 3023. Fall, Spring.

MKTG 4103. Concepts of Business Logistics This course addresses the concepts, principles, and methods used to plan, organize, and manage logistics activities in the supply chain. Prerequisite, MKTG 3163. Fall.

MKTG 4113. International Marketing Exporting and importing products, as well as the management of international operations. These include all phases of business activity related to operating marketing and sales facilities abroad, establishing production or assembly facilities in foreign areas, and creating licensing arrangements. Special course fees may apply. Prerequisite, MKTG 3013. Fall, Demand.

MKTG 4123. Organizational Purchasing This course addresses the strategic and operational aspects of purchasing functions in private and public organizations. Emphasis will be placed on the development and evaluation of suppliers in an organizational setting. Prerequisite, MKTG 3013. Spring.

MKTG 4133. International Logistics and Outsourcing Systematic review of concepts involved in supply chain outsourcing, with emphasis on the selection of service suppliers, the organized movement of goods between firms in more than one nation, and the unique aspects of international logistic processes. Prerequisites, MKTG 3163 or MKTG 4113 or MGMT 4123 or permission of Instructor. Fall.

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

MKTG 4223. Marketing Management Evaluation and analysis of marketing strategies in competitive situations. Course examines various price, product, distribution, and promotion strategies that are essential to firms. Focus on the integration and assessment of these elements in developing and adapting a successful marketing strategy. Prerequisite, MKTG 3013. Fall, Spring, Demand.

MKTG 4273. Supply Chain Management 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 3163 and consent of instructor. Fall, Spring, Summer.

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 4343. 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. Summer.

MKTG 4393. Social and Non Profit Marketing Application of marketing in organizations addressing social issues related to health, environment, and community, with emphasis in sustainable business practices. Special course fees may apply. Prerequisite, MKTG 3013 or permission of instructor. Demand.

COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCE

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

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND SPORT SCIENCES

Athletic Training (AT)

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

AT 2203. Emergency Management in Athletic Training The study and application of emergency management techniques in dealing with trauma resulting from injuries and illnesses suffered by an athletic population. Corequisite, AT 2201. Demand.

AT 2301. Clinical Instruction in Athletic Training I This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. Prerequisite, Admission to the Athletic Training Program. Corequisite, AT 2311. Fall.

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

AT 2401. Clinical Instruction in Athletic Training II This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. Prerequisites, AT 2301 and AT 2311. Corequisite, AT 2411. Spring.

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

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

AT 2733. Care and Prevention of Athletic Injuries A course designed to introduce athletic training students to current principles and practices in the prevention, recognition, and management of athletic related injuries and illnesses. Prerequisite, AT 2203 and AT 2201. Corequisite, AT 2731. Fall.

AT 2883. Foundations of Athletic Training Course designed to introduce the prospective athletic training major to the mission, philosophy and objectives of the ASU Athletic Training Education Program, the role of the certified athletic trainer and the relationship of athletic training to the U.S. health care system. Areas of emphasis include history, scope of practice, current professional literature and career opportunities. Spring.

AT 3301. Clinical Instruction in Athletic Training III This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. Prerequisites, AT 2401 and AT 2411. Corequisite, AT 3111. Fall.

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

AT 3401. Clinical Instruction in Athletic Training IV This course is designed to instruct students in athletic training clinical proficiencies prior to practicing those proficiencies during a clinical experience. Prerequisites, AT 3301 and AT 3311. Corequisite, AT 3411. Spring.

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

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

AT 3733. Advanced Assessment of Athletic Injuries Advanced course designed to develop further knowledge and skills related to the recognition, assessment, treatment, and appropriate medical referral of athletic injuries and illnesses. Prerequisites, AT 2731 and AT 2733. Corequisite, AT 3731. Fall.

AT 3741. Therapeutic Exercise Laboratory A laboratory course where students will practice the advanced skills necessary to rehabilitate athletic related injuries using therapeutic exercise techniques. Prerequisites, AT 3731 and AT 3733. Corequisite, AT 3743. Spring.

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

AT 3831. Therapeutic Modalities Laboratory A laboratory course in which students will practice the skills necessary for the proper application of therapeutic modalities in the treatment of athletic related injuries. Prerequisites, AT 2731 and AT 2733, PHYS 2054. Corequisite, AT 3833. Spring.

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

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

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

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

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

AT 4723. Athletic Training Administration A study of the standards, policies and practices in the organization, supervision and administration of athletic training programs. Emphasis will be placed upon planning, developing, organizing and directing an athletic training program in a variety of sports medicine settings. Prerequisites, AT 3743. 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. Fall.

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 Materials Teaching Physical Education (EDPE)

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.

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. Prerequisites, ES 3543 and ES 3553. 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, Summer.

ES 3653. Techniques of Aerobic Conditioning Principles and methods of exercise leadership. Includes exercise programming and participation, teaching methods, technique evaluation, supervision, and leadership for various types of group aerobic exercise programs including field, gymnasium and aquatic exercise. Corequisite, ES 3543 and 3553. Fall.

ES 3713. Cardiovascular Physiology This course is designed to introduce the student to the study of cardiovascular physiology with an emphasis on normal versus abnormal function. It provides an in depth study of the cardiovascular system and its various responses to acute and chronic exercise. Prerequisites, BIO, 2203, BIO 2201, BIO 2223, BIO 2221, and ES 3553. Spring.

ES 3743. Research and Statistical Methods in Exercise Science Fundamental aspects of the clinical research process involving human subjects. The course will include an overview of the research process, procedures, sampling data collection and analysis. Fall, Spring, Summer.

ES 4673. Exercise Prescription for Special Populations Provide the students with principles and practice in developing exercise regimens and programs specifically designed for special populations. Prerequisites, ES 3543, ES 3553, ES 4683. Spring.

ES 4683. Exercise Prescription and Fitness Programming The application of basic physiological principles in the prescription of exercise and the administration of conditioning programs for individuals of differing ages, health status, and occupational status. Prerequisite, ES 3543, 3553, ES 3623. Fall.

ES 4693. Techniques of Strength Training and Conditioning The study of current principles and procedures essential to strength training and conditioning practices. Emphasis is placed on the development and practical applications of aerobic conditioning, joint flexibility, and muscular strength, power and endurance programs. Prerequisites, ES 3543, ES 3553. Spring, Summer.

ES 4763. Kinesiology Mechanics of human motion and its application to physical activity. Prerequisite, ES 3543, Human Anatomy and Fundamentals of Motion. Fall, Spring, Summer.

ES 4813. Applied Motor Learning The study and practical applications of relevant motor learning theories and research related to exercise science, physical education, and sport programs. Prerequisites, ES 3543, ES 3553. Fall.

ES 4843. Practicum/Pre-Internship Introduction to field experience in exercise science in order to become familiar with the operational and procedural aspects of clinically based exercise facilities. Prerequisite, ES 3623, ES 3653, ES 3713, ES 4673, ES 4683. Corequisite, ES 4693. Spring.

Health (HLTH)

HLTH 2513. Principles of Personal Health Principles, problems, and practices in the development of positive health behavior. Fall, Spring, Summer.

HLTH 2523. First Aid and Safety Fundamentals, techniques, and practices of Standard First Aid and CPR as prescribed by the National Safety Council. Emphasis on programs of accident prevention in schools, homes, recreational areas, traffic safety. Fall, Spring, Summer.

HLTH 3523. Public and Community Health Examination of public and community health problems, their causes, and possible solutions from a local, state, national, and international perspective. Roles of the individual and the community, and functions of the various agencies involved with health related issues will also be studied. Fall.

HLTH 3533. Strategies for Teaching Health Education Theory and teaching techniques for effective health instruction. Spring, 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, Summer.

HLTH 4543. Drug Use and Abuse An exploration of the physical, mental, emotional, and social aspects of drug use and abuse. Special attention will be focused on proper use of drugs within contemporary society. Fall, Spring, Summer.

HLTH 4573. The School Health Program The scope and function of the total school health program including common health problems, recommended program organization, and administrative practices. Demand.

HLTH 4633. Health Promotion Assessment and Planning Designed to facilitate students understanding of the process of conducting needs assessments with various populations and to help students learn how to plan a well designed program for implementation. Fall.

HLTH 4643. Health Promotion Implementation and Evaluation. Designed to facilitate students understanding of the process of program implementation and evaluation. Students will implement and evaluate various health interventions. Prerequisite, HLTH 4633. Spring.

HLTH 480V. Special Topics Workshop A specifically designed series of learning experiences to enhance the professional capabilities of teachers. Opportunity for participants to engage in meaningful learning activities and to interact with recognized professionals in the field. Course can be repeated for credit. Demand.

Health, Physical Education, Exercise Science (HPES)

HPES 1013. Introduction to Health, Physical Education and Sport Sciences Requiredcourse 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.

HPES 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 3001. Student Leadership in Service Learning This course introduces students to academic service-learning as an approach to experiential learning. Students actively participate in meaningful civic service-learning experiences that meet community needs and are coordinated with university and community partner organizations. Spring, Fall.

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 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 TThe 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 rhythmical movement. Individualized fitness programs are developed for each student. Fall, Spring.

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

PE 1151. Ultimate Frisbee This course is designed to introduce students to the basic knowledge of the rules, nature, techniques and strategies of ultimate Frisbee as well as provide the opportunity to develop personals 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 Non-proficiency course designed to teach basic swimming skills for non-swimmers 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.

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

PE 3782. Skin and Scuba Diving Opportunity for Y.M.C.A. certification pending completion of specified requirements. Prerequisite, Consent of instructor. Special course fee, $30.00. Fall, Spring.

PE 3802. Physical Education for Teachers of Young Children The philosophy, aims, and objectives of physical education in the grades P through 6, includes laboratory experiences. Prerequisite SCED 2513. 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 3822. Theory and Practice of Teaching Rhythmical Activities The values, scope, and analysis of rhythmical activities and basic movement experiences. Emphasis is given to instructional techniques and program progression. Prerequisite SCED 2513. Fall, Spring.

PE 3832. Theory and Practice of Teaching Fitness Concepts Instructional strategies designed to teach, develop and assess health related fitness components for grades P through 12. Prerequisite, PE 1002. Fall, Spring.

PE 3842. Theory and Practice of Teaching Leisure Sports Instructional strategies for teaching skill techniques, progression, and planning in selected leisure sport activities, archery, bowling, golf, table tennis, for students in grades P through 12. Prerequisite, SCED 2513. Fall, Spring.

PE 3853. Sports Promotion and Sales Management Theories, concepts, and research associated with sport consumer behaviors. Prerequisite, Junior level standing. Spring.

PE 3862. Theory and Practice of Teaching Racquet 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 2513 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. 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 2513. 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.

PE 471V. Independent Study Student may engage in supervised study of physical education issues. Demand.

PE 4743. Legal Issues in Sport Legal issues as it relates to the law, liability, legal systems and the rights of those involved in the sport, exercise, and the fitness industry. Fall.

PE 4753. Physical Education Curriculum The course is designed to prepare prospective teachers to develop, implement, and assess the curricula within physical education. Fall.

PE 4773. Organization and Management of Sports Programs Planning, organizing, leading, and evaluating of institutional and community sports programs. Fall.

PE 4783. Organization and Administration of Physical Education Problems relating to the planning and management of physical education programs in the public school. Fall, Spring.

PE 4793. Evaluation in Physical Education Tests and evaluation procedures in the areas of physical fitness, motor ability, skill, and knowledge. Emphasis is placed on the administration of tests and use of results. Spring.

PE 480V. Special Topics Workshop A specifically designed series of learning experiences to enhance the professional capabilities of teachers. Participants engage in meaningful learning activities and interact with recognized professionals in the field. May not be used to satisfy any degree requirements. May be repeated for credit. Demand.

PE 4822. Theory and Practice of Coaching Football Team offenses and defenses, playing strategy, rules, scouting, and conditioning of players are discussed. Practice in basic fundamentals. Fall.

PE 4823. International Sports Venues Provides a critical perspective of managing international sports venues including planning, design, operations, maintenance, marketing, finance, and event management. Students are exposed to sport venues and management practices in the international sport environment through study abroad. Summer. Permission of instructor required.

PE 4832. Theory and Practice of Coaching Basketball Class follows same pattern as described in 4822 above. Spring.

PE 4842. Theory and Practice of Coaching Track Instruction and practice in performing track events with emphasis on teaching techniques, also practicum in conducting competitive meets. Spring.

PE 4843. Philosophy and Ethics in Sport An exploration of major issues, ethical theories, moral reasoning and their impact on the operation of programs in sport, physical education, fitness, athletics, and recreation. Spring.

PE 4852. Theory and Practice of Coaching Baseball Class follows same pattern as described in 4822 above. Fall.

PE 4853. Applied Psychology of Sport and Exercise The study and practical applications of relevant psychological theories and research related to physical education, exercise, and sport programs. Fall.

PE 4872. Theory and Practice of Coaching Volleyball Class follows same pattern as described in 4822 above. Fall.

PE 4863. Diversity in Sport and Athletics Concepts of diversity in analyzing sport practices and practical implications for promoting diversity in sport and athletics. Focus will be given to implementing sport programs in socially diverse settings and for underrepresented groups. Fall, Summer.

PE 4873. Organization and Administration of Interscholastic Athletics A detailed study of problems encountered by coaches in planning and managing athletic contests, includes coaching psychology. Fall, Summer.

PE 4882. Theory and Practice of Coaching Soccer This course is designed to provide prospective athletic coaches with knowledge and skill introduction regarding the game of soccer. Spring.

PE 4883. Practicum in Elementary Physical Education Experience in working with elementary children, including planning and implementing the program. Requires 90 hours of direct contact with elementary age children. Prerequisites, Admission to Teacher Education Program and completion of 75 hours including PE 3822 and 4663. Special course fee, $17.50. Summer.

Teaching Internship (TIPE)

TIPE 4825. Physical Education Teaching Internship in the Secondary School
Ten semester hours. Full semester teaching internship. Fall, Spring.

TIPE 4826. Physical Education Teaching Internship in the Secondary School
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

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. (ACTS#: PSYC 1103)

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. Prerequisite or corequisite, PSY 2023. Fall, Spring.

PSY 3101. Quantitative Methods Laboratory Laboratory for Quantitative Methods Laboratory associated with PSY 3103. Two hours per week. Prerequisite, MATH 1023 or higher level math. 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. Prerequisite, MATH 1023 or higher level math. 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, PSY 3103 and PSY 3101. 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 indepth 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. Prerequisites, PSY 2023, PSY 3101, and PSY 3103. Corequisite, PSY 3121. Fall, Spring.

PSY 3214. Introduction to Neuroscience Introduction to the normal structure and function of the nervous system in relation to behaviors and experiences in humans and nonhumans with an integrated laboratory component. Topics include brain structure, physiology, development, drugs of abuse, bodily senses, and behavior. Prerequisites, MATH 1023, PSY 2013;,BIOL 1003 and BIOL 1001, or permission of instructor. Special course fees may apply. Fall.

PSY 3303. Motivation Survey of animal and human research in motivation. Topics include instincts, biological drives, acquired drives, incentive, secondary reinforcement, frustration, and theories of motivation. Fall, Summer.

PSY 3403. Child Psychology Principles and patterns of mental, social, emotional, and physical development. No more than 6 credit hours from the following courses may be used to satisfy the requirements for a major or minor in psychology, PSY 3403, PSY 3413, and PSY 3453. Fall, Summer.

PSY 3413. Adolescent Psychology The influence of factors including cognition, motivation, perception, learning, emotion, and personality on development during adolescence. No more than 6 credit hours from the following courses may be used to satisfy the requirements for a major or minor in psychology, PSY 3403, PSY 3413, and PSY 3453. Spring, Summer.

PSY 3453. Developmental Psychology Study of the life cycle from prebirth through death including an examination of the major methods, theories, and empirical findings. No more than 6 credit hours from the following courses may be used to satisfy the requirements for a major or minor in psychology, PSY 3403, PSY 3413, and PSY 3453. Fall.

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

PSY 3603. Positive Psychology Scientific study of happiness, psychological well-being, and character strengths. Spring.

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

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

PSY 380V. Special Problems in Psychology Individual problems in psychology arranged in consultation with the instructor and the department chairman. May be repeated for credit but no more than 6 credit hours may be applied toward psychology major requirements. Demand.

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

PSY 4053. Today's Families: Interdisciplinary Approaches An interdisciplinary course designed to promote a critical approach to examining the family and its role in society. Prerequisite, 12 hours of coursework in Interdisciplinary Family Minor OR Instructors Permission. Demand.

PSY 4173. Introduction to Psychological Tests and Measurements Overview of theoretical and practical aspects of the assessment and prediction of human behavior. Includes principles and application of group and individual standardized measures as well as investigator made measures. Prerequisites, PSY 3103 and PSY 3101, or three hours of equivalent statistics course. Spring.

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

PSY 4343. Learning Processes The study of behavioral adaptation at the level of the individual. Includes empirical and theoretical issues related to classical and instrumental conditioning, complex learning, memory, and the neural bases of learning and memory. Human and infrahuman data are considered. Fall.

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

PSY 4383. Introduction to Behavior Analysis An introduction to the basic philosophy, methodology, and methods and principles that underlie the science of behavior analysis in both the experimental and applied domains. 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 AND LEADERSHIP

Early Childhood Education (ECH)

ECH 2003. Introduction to Educational Technology Introduction to the use of technology in an educational setting, including system operations. Cross-listed with MLED 2003. Fall, Spring, 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 2033. Introduction to Teaching: Field Experiences I An overview of the purposes and functions of education. The complex role and responsibilities of a teacher begin to be examined within the school setting. Thirty clock hours of elementary classroom observation required. Prerequisite, 15 semester hours. Cross-listed with MLED 2033. 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. Five clock hours of experience with children, as identified by instructors. Fall, Spring, Summer.

ECH 3004. Instructional Models, Strategies and Assessment Develops pedagogical knowledge, lesson planning skills, and rehearsal of effective assessment and evaluation practices. Content centers on research in teaching and curriculum. Must be admitted to the Teacher Education Program. Cross-listed with MLED 3004. Prerequisites, ECH 2003, ECH 2013, ECH 2033, ECH 2023, ECH 3013, ECH 3043, ECH 3073, ECH 3083, ELSE 3643. 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. Three clock hours of Field Experience in Preschool through 4th grade settings. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2033, ECH 2023. 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 2003, ECH 2013, ECH 2033, 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. Three clock hours of work in the P through 3 settings. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2033, ECH 2023, ECH 3013, ECH 3043, ECH 3073, ECH 3083, and ELSE 3643. Fall, Spring, Summer.

ECH 3063. Individualizing Programs for Children and Families Methods for individualizing programs for young children and their families, based upon individual strengths and needs. Six clock hours of observation required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2033, 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 Requires performance of skills and strategies for developing positive relationships with children and families and provides opportunities for interaction with community resources. A minimum fifty clock hours of field experience with infants, toddlers and preschoolers and 25 hours with agencies. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2033, ECH 2023. Fall, Spring, Summer.

ECH 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. Prerequisites, Admission to the Teacher Education Program, ECH 2003, ECH 2013, ECH 2023 and ECH 2033. Fall, Spring, Summer.

ECH 3603. Literacy for Children and Families Provides students with knowledge of literacy development beginning at birth, and methods to involve families in the literacy process. Six clock hours of observation is required with infants, toddlers, and preschoolers. Prerequisites, ECH 2013, 2023. Spring.

ECH 3613. Strategies for Supporting Learning Through Play Emphasizes the role of play in the development and learning of typically and atypically developing children, play as a mode to understand children, and strategies to use play to support the learning and development of children. Ten clock hours of Field Experience required. Prerequisites, ECH 2013, ECH 2023. Spring.

ECH 4002. Classroom Management for Inclusive Settings Group and individually oriented best practices for classroom management, discipline and positive behavior guidance with a focus on inclusive classrooms. Prerequisites, Admission to the Teacher Education Program, ELSE 3643, ECH 3073. Corerequisite, ELSE 4033. Spring.

ECH 4012. Organizing and Managing the Learning Environment Techniques of classroom management, theories of discipline, and positive behavior guidance. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2023, ECH 2033, ECH 3013, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3004, RDNG 3203, ELSE 3643. Corequisites, RDNG 4403, ECH 4013, ECH 4023, ECH 4043. Fall, Spring.

ECH 4013. Field Experience III Pre-Internship Observing, teaching, evaluating curriculum and materials, managing classrooms, and addressing the diverse needs and learning strategies of children. 240 clock hours of Field Experiences required. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2033, ECH 3004, ECH 3013, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, 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 2003, ECH 2013, ECH 2033, ECH 2023, ECH 3013, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3004, 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 2003, ECH 2013, ECH 2033, ECH 2023, ECH 3013, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3004, RDNG 3203, ELSE 3643. Corequisites, RDNG 4403, ECH 4012, ECH 4013, ECH 4023. 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. Prerequisite, twelve hours of coursework in Interdisciplinary Family Minor OR Instructor's Permission. Spring.

ECH 4061. Early Childhood Education Symposium A symposium with an identified theme related to current events or needs in the field of early childhood education. Designed for early childhood professionals. May be repeated. Summer.

ECH 4063. Social Foundations of Education Develops a basic understanding of the foundations of the educational function in American society. Emphasis on the history, philosophy, and professional aspects of teaching. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2033, ECH 2023, ECH 3013, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3004, ELSE 3643, RDNG 3203. Fall, Spring, Summer.

ECH 4086. Teaching Internship in Early Childhood Education Kindergarten Six semester hours. Prerequisite, Admission to the internship semester as specified by the Office of Professional Programs of the College of Education and Behavioral Science. 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 and Behavioral Science. Prerequisites, Admission to the Teacher Education Program. Special course fees may apply. Fall, Spring.

ECH 4603. Physical and Psychological Environments for Young Children Explores the physical and psychological environments needed to support development of the whole child. Includes health, safety, nutrition, physical arrangements and space, communication, guidance and group management. Ten clock hours of Field Experience required. Prerequisites, ECH 3603, ECH 3613, Corequisite, ECH 4613. Fall.

ECH 4613. Curriculum and Assessment for Early Care and Education Develops knowledge for assessing children and implementing appropriate curriculum for young children. Includes study of the curriculum, integrated units, observational methods and self assessment. Ten clock hours of Field Experience required. Prerequisites, ECH 3603, ECH 3613. Corequisite, ECH 4603. Fall.

ECH 4623. Child Care Program Management and Mentoring Introduction to basic management and administration of child care programs, including programs for out of school time of elementary grade children. Includes policies, procedures, staff supervision and mentoring, funding, finances, licensing, and curriculum implementation. Emphasis on professional development, including ethics and advocacy. 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. All special topics must be approved by teacher education curriculum committee. One, two, or three credit hours. Special topics may be applied as an elective course to a degree program with permission of advisor and department chair prior to enrollment in the course. Must be admitted to Teacher Education Program. Demand.

Curriculum and Instruction (ELCI)

ELCI 4013. Curriculum and Assessment Instructional Theory and Practice Coursefocuses on current theory and practice for instructional techniques and fundamentals of educational measurement as they apply to classroom situations. This course is a corequisite to the TI 4013 Teaching Internship in the Secondary School. Must be admitted to the Teacher Education Program. Fall, Spring.

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

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

ELCI 480V. Special Topics Workshop A designed series of learning experiences to address the specific needs of in-service 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.

Elementary Education (ELED)

ELED 1001. Introduction to Technology Designed to teach students the prerequisite skills needed for ELED 3063, and for preservice education students new to or uncomfortable with technology. Must be admitted to the Teacher Education Program. Special course fees may apply. Demand.

ELED 3003. Human Growth and Learning Study of the nature and development of the child, including major theories of learning and learning processes. Four clock hours of child study projects required. Must be admitted to the Teacher Education Program. Special course fees may apply. Demand.

ELED 4053. Teacher-Made Materials for Use in Learning and Interest Centers Applies philosophical and theoretical course content by demonstrating appropriate teaching devices and requiring students to develop materials essential to the functioning of the activity approach to curriculum. Must be admitted to the Teacher Education Program. Special course fees may apply. Prerequisite, 12 hours of coursework in interdisciplinary Family Minor or instructor's permission. Demand.

ELED 4613. Techniques of Behavior Management Techniques of systematic behavioral intervention, including all areas of exceptionality in regular classes, special classes, itinerant and resource programs. Students must complete a fifteen clock hour case study and behavior management project. Must be admitted to the Teacher Education Program. Special course fees may apply. Summer.

ELED 480V. Special Topics Current subjects of interest to graduate and undergraduate Early Childhood Education or other educational professionals with appropriate subtitles. Course may include intensive study of subjects to meet the need of professional educators. All Special Topics Courses must be approved by the Teacher Education Department Curriculum Committee. May be taken for one, two or three credit hours, in any combination, for up to three hours of credit. Special Topics may be applied as elective credit toward a degree program with the written permission of the academic advisor and department chair prior to enrollment in the course. Must be admitted to the Teacher Education Program. Special course fees may apply. Demand.

Special Education (ELSE)

ELSE 2733. Activity Based Instruction This course will provide the teacher with knowledge of current theories, best practices, and strategies for working with children from birth to five years of age who have special needs. It is designed for early childhood educators and paraprofessionals. Must be admitted to the Teacher Education Program. Demand.

ELSE 3023. Characteristics of Individuals with Disabilities In depth study designed to develop knowledge of the characteristics of individuals with disabilities and the influence of these characteristic on the learning potential of these students. Must be admitted to the Teacher Education Program. Summer.

ELSE 3643. The Exceptional Student in the Regular Classroom Introduction to exceptional students, with the major focus on serving these individuals in regular education classroom environments. Must be admitted to the Teacher Education Program. Must have passed writing portion of Praxis 1. Fall, Spring, Summer.

ELSE 4033. Behavior Intervention and Consultation Techniques of systematic behavioral analysis, prevention, and intervention for students at risk for school failure or students with disabilities. Emphasis is placed on both direct and consultative interventions. Must be admitted to the Teacher Education Program. This course is dual listed ELSE 5033. Prerequisite, ELSE 3643 or equivalent. Spring, Summer.

ELSE 4053. Educational Procedures for Individuals with Mild Disabilities
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 4083. Collaboration for Special Education Service Delivery A study of the team planning process, working with families, and service delivery options for special education, including special class placement, consultation, and collaborative teaching. This course is dual listed ELSE 5083. Prerequisites, ELSE 3643 or equivalent and entrance in the Teacher Education Program. Summer, Fall.

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

ELSE 4623. Diagnostic and Corrective Mathematics Instruction in Special Education Developing a comprehensive perspective of diagnostic and corrective mathematics needs of students with mild disabilities. Emphasis will stress concept and skill development. Must be admitted to the Teacher Education Program. Demand.

ELSE 4633. Diagnostic and Corrective Reading Instruction in Special Education Developing a comprehensive understanding of diagnostic and corrective needs of students with reading disabilities in resource and self-contained classrooms. Must be admitted to the Teacher Education Program. This course is dual listed ELSE 5633. Prerequisite, ELSE 3643 or equivalent. Fall, Summer.

ELSE 4683. Methods for Working with Families Knowledge of family systems theory and the impact which a disability may have on the family system, awareness of family support and community resources, skills for effective communication, conferences, and collaboration. Development of effective interpersonal communicative skills, conducting conferences, designing training programs for families. Must be admitted to the Teacher Education Program. Demand.

ELSE 4703. Identification, Nature, and Needs for the Gifted, Talented, and Creative A comprehensive study of methods for identifying gifted, talented, and creative students. Includes characteristics and educational and social needs of this population in a variety of educational settings. Must be admitted to the Teacher Education Program. Spring.

ELSE 4713. Educational Procedures and Materials for the Gifted, Talented, and Creative Focus is on current theory and practice in planning educational programs for gifted, talented, and creative students. Must be admitted to the Teacher Education Program. Summer.

ELSE 4723. Assessment for Programming for Gifted, Talented, and Creative Instruments will be reviewed for the purpose of preliminary screening and to provide differentiated programming for gifted, talented, and creative. Must be admitted to the Teacher Education Program. Spring.

ELSE 4733. Gifted, Talented, and Creative Children in the Regular Classroom A study to facilitate the education of regular classroom teachers as they strive to assist in the identification of gifted, talented, and creative students and to further enhance the education of these students while in the regular classroom. Includes specific areas of giftedness pertaining to characteristics, identification, and differentiated instruction. Must be admitted to the Teacher Education Program. Demand.

ELSE 4743. Assessment of Young Child with Exceptionalities A study of evaluative and diagnostic instruments and procedures used with young exceptional children from birth to 8 years of age. This course is dual listed ELSE 5743. Prerequisites, ELSE 3643 or equivalent and entrance into the Teacher Education Program. ELSE 3643 may be taken concurrently. Fall.

ELSE 4753. Methods for Working with Young Children with Exceptionalities The purpose of this course is to provide teachers with knowledge of current theories, best practices, and strategies relevant to working with children from birth to age 8 who have disabilities. This course is dual listed ELSE 5753. Prerequisites, ELSE 3643 and ELSE 4743 and entrance into the Teacher Education Program. Spring.

ELSE 4816. Teaching Internship in Special Education Culmination of the early childhood dual certification program. Provides directed teaching under the supervision of a qualified teacher. Requires application of knowledge skills, and demonstration of appropriate dispositions for teaching. Must be admitted to the Teacher Education Program. Fall, Spring.

Middle-Level Education (MLED)

MLED 2003. Introduction to Education Technology Introduction to the use of technology in an educational setting, including system operations. Cross-listed with ECH 2003. Fall, Spring, Summer.

MLED 2033. Introduction to Teaching: Field Experiences I An overview of the purposes and functions of education. The complex role and responsibilities of a teacher begin to be examined within the school setting. Thirty clock hours of elementary classroom observation required. Prerequisite, 15 semester hours. Cross-listed with ECH 2033. Fall, Spring.

MLED 3002. Theories and Strategies of Middle Grades Classroom Management Techniques of classroom management, theories of discipline, and positive behavior guidance for the young adolescent. Prerequisites, Admission to the Teacher Education Program, MLED 3003. Fall, Spring.

MLED 3003. Nature and Needs of the Middle Level Learner Examines 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. Prerequisites, Admission to the Teacher Education Program. Fall, Summer.

MLED 3004. Instructional Models, Strategies and Assessment Develops pedagogical knowledge, lesson planning skills, and rehearsal of effective assessment and evaluation practices. Content centers on research in teaching and curriculum. Must be admitted to the Teacher Education Program. Cross-listed with ECH 3004. Prerequisites, MLED 3083. Spring, Summer.

MLED 3013. Literacy Through Literature for the Middle Grades Designed to assist preservice teachers in becoming widely acquainted with the role literature plays in the continuing literacy development of middle level students. Features current trade books and other literary forms. Four clock hours of fieldwork are required in middle level classroom settings. Prerequisites, Admission to the Teacher Education Program. 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, Admission to the Teacher Education Program, MLED 3003, MLED 3004. 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. Prerequisites, Admission to the Teacher Education Program, MLED 2003. 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, Admission to the Teacher Education Program, MLED 3002, MLED 3003, MLED 3004, Pre- or corequisite, 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. Prerequisites, Admission to the Teacher Education Program, MLED 3002, MLED 3003, MLED 3004, Pre- or corequisite, MLED 3073.. Fall.

MLED 4033. Curriculum Applications in the Middle Grades: Field II The application of instructional practices conducive to successfully teaching and assessing the middle level learner. Requires extended fieldwork. Prerequisites, Admission to the Teacher Education Program, MLED 3002, MLED 3003, MLED 3004, Pre- or corequisite, 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. Prerequisites, Admission to the Teacher Education Program. Fall, Spring, Summer.

MLED 4106. Teaching Internship in Middle Grades 4 to 5 Culmination of the middle level education program. Provides eight weeks of directed teaching under the supervision of a qualified teacher. Requires application of knowledge, skills, and demonstration of appropriate dispositions for teaching. Prerequisite, Admission to the internship semester as specified by the Office of Professional Education Programs of the College of Education and Behavioral Science. Special course fees may apply. Prerequisites, Admission to the Teacher Education Program. 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 and Behavioral Science. Special course fees may apply. Prerequisites, Admission to the Teacher Education Program. Fall, Spring.

Reading (RDNG)

RDNG 3003. Reading Acceleration For students who have a need to develop efficiency in reading. Demand.

RDNG 3203. Foundations of Reading Instruction Introductory course focusing on the theories of reading and the reading process, with an introduction to the history of reading instruction and approaches and materials for teaching reading. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2023, ECH 3013, ECH 3043, ECH 3073, ECH 3083, ELSE 3643. Fall, Spring, Summer.

RDNG 4313. Methods and Materials in Reading Focuses on techniques and materials for teaching students with different learning styles. Emphasis on the basal reader, whole language, linguistic, language experience, and individualized approaches. Must be admitted to the Teacher Education Program. Fall, Summer.

RDNG 4323. Clinical Problems in Reading Focuses on assessment, evaluation, and remediation of reading problems, utilizing an interdisciplinary approach. Must be admitted to the Teacher Education Program. Prerequisite, RDNG 4303. Fall, Spring.

RDNG 4343. Reading in the Content Areas Middle and Secondary Schools For classroom teachers, reading specialists, and other educators. Emphasis on the relationship between learning strategies and reading content materials in the subject areas normally taught in grades 4 through 12. Must be admitted to the Teacher Education Program. Fall, Spring.

RDNG 4403. Early Literacy: Theory and Practice Students develop, implement, and assess the effectiveness of literacy lessons in K through 4 classrooms. Forty five clock hours of field experience. Must be admitted to the Teacher Education Program. Prerequisites, ECH 2003, ECH 2013, ECH 2033, ECH 2023, ECH 3013, ECH 3043, ECH 3053, ECH 3063, ECH 3073, ECH 3083, ECH 3004, ELSE 3643, RDNG 3203. Corequisite, ECH 4012, ECH 4013, ECH 4023, ECH 4043. Fall, Summer.

RDNG 480V. Special Topics Current subjects of interest to undergraduate and graduate reading education students. All special topics must be approved by the teacher education curriculum committee. One, two, or three credit hours. Special topics may be applied as elective credit to a degree program with written permission of advisor and department chair prior to enrollment in the course. Must be admitted to the Teacher Education Program. Demand.

Secondary Education (SCED)

SCED 2513. Introduction to Secondary Teaching Providing prospective educators with an introduction to teaching and education in a pluralistic society, and an understanding of the historical, multicultural, sociological, philosophical, legal, political, curricular, and technological dimensions of American education. 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 2513. 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 development. Must be admitted to the Teacher Education Program. Spring.

EDAR 4523. Methods and Materials for Teaching Art Emphasis on the practical application of art in the secondary school. Techniques and strategies of teaching art, developing an art curriculum, assessing and motivating students. Must be admitted to the Teacher Education Program. Fall.

EDBU 4533. Methods and Materials in Teaching Business Technology Study of the role and scope of the vocational business education teacher, professional organizations, professional ethics, federal involvement, and professional literature. Emphasis on the assessment of student competencies, competency based programs, resources, facilities, and curriculum development. Selection and practice in teaching techniques and strategies. Must be admitted to the Teacher Education Program. Fall.

EDEN 4553. Methods and Materials for Teaching English in the Secondary School The study of models of teaching and instruction and of assumptions underlying current teaching learning practices for English in the secondary schools. Opportunities to develop skills and strategies for teaching language, literature, and composition to culturally diverse students. Must be admitted to the Teacher Education Program. Fall.

EDEN 4653. Methods and Materials for Teaching English in the Middle School Methods and materials for teaching English to the special needs of middle school students. Focus on the application of techniques and strategies for teaching language, literature, and composition to culturally diverse students. Must be admitted to the Teacher Education Program. Spring, even.

EDLA 4633. Methods and Materials for Teaching 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. 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.

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__ __)

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

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

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

TIAR 4826. ART TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
Twelve semester hours. Full semester teaching internship. Fall, Spring.

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

TIBI 4826. BIOLOGY TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
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.

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.

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

TIMA 4826. MATH TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

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

TIMU 4826. MUSIC TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
Twelve semester hours. Full semester of 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.

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

TIPH 4826. PHYSICS TEACHING INTERNSHIP IN THE SECONDARY SCHOOL
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.**

Engineering (ENGR)

ENGR 1402. Concepts of Engineering An introduction to the various engineering disciplines. Topics include conservation principles, elementary measurement techniques, teamwork, and an introduction to technical practices. Prerequisite, 21 Math ACT or C or better in MATH 1023 or higher MATH. Fall, Spring.

ENGR 1412. Software Applications for Engineers An introduction to software applications used by the various engineering disciplines. Technical word processing and the use of spreadsheets as a mathematics tool are developed. Accepted practices of data presentation and an introduction to presentation graphics are covered. Prerequisite, 21 Math ACT or C or better in MATH 1023 or higher MATH. Fall, Spring.

ENGR 2401. Applied Engineering Statistics The practical application of statistical principles as they apply to scientific and engineering topics, with focus on solving engineering problems in various disciplines such as civil, electrical, and mechanical engineering. Lecture one hour per week. Corequisite, MATH 2214. Fall, Spring.

ENGR 2403. Statics Principles of vector analysis, static equilibrium, analysis of structures, 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 members 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. Prerequisites, C or better in ENG 1013 and ENGR 1402. Corequisites, ENGR 2401 and 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. Prerequisites, C or better in ENGR 1412 and PHYS 2034. Corequisite, 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. Prerequisites, junior standing or consent of instructor. 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 3471. Fluid Mechanics Laboratory Experiments in fluid phenomena which emphasize the topics covered in ENGR 3473. Formal laboratory reports will be required. Laboratory two hours per week. Corequisite, ENGR 3473. Fall, Spring.

ENGR 3473. Fluid Mechanics Basic fundamentals of fluid properties, fluid statics, fluid equations, viscous effects, and ideal fluid flow are applied to engineering problems in closed conduits, open channels, and fluid measurements. Prerequisite, C or better in MATH 3254 and ENGR 2403. Fall, Spring, Summer.

ENGR 349V. Engineering Internship Students complete a supervised work experience involving practical application of the knowledge and skills acquired in engineering courses. Internships, minimum of 50 hours of work per credit hour awarded, are arranged by the student, an internship sponsor, and a supervising faculty member. Progress and final reports are required. Maximum degree credit for this course is three hours. Consent of Program Director required. Fall, Spring, Summer.

ENGR 4401. Senior Seminar Selected speakers discuss topics relevant to seniors and engineering practice including FE exam reviews, program expectations for graduates, contributing to society and local communities, involvement with professional organizations, staying connected with program activities and surveys, preparation for permanent job search, and advice for graduate education. Corequisite, ENGR 4463. Fall, Spring.

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. Prerequisite, C or better in ENGR 4453. Spring.

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. A project proposal, progress report, comprehensive final report, and an oral presentation are required. Sitting for the national FE exam is optional. Lectures cover preparation for the national FE exam, the design process, and professional practice topics. Lecture two hours, laboratory one hour per week. Prerequisite, senior standing and consent of instructor. Fall, Spring.

ENGR 4482. Senior Design II Group work to complete final design, fabrication, and testing aspects of a senior design project. A project proposal, progress reports, comprehensive final report, and a public oral presentation are required. Project meetings and laboratory four hours per week. Prerequisite, C or better in ENGR 4463, senior standing, and consent of instructor. Fall, Spring.

ENGR 449V. Special Problems in Engineering Individually directed problems in engineering for juniors and seniors. Must be arranged in consultation with an engineering professor in the appropriate concentration area. The course outline and a project summary listing the goals and expectations must be approved by the students adviser and the department chair. A written report is required. A copy must be filed in the Engineering Office. Demand.

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. Prerequisite: 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.

Civil Engineering (CE)

CE 2202. Civil Engineering Presentations 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.

CE 2223. Plane Surveying 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.

CE 3213. Structural Analysis I Analysis of determinate and indeterminate structures and trusses, 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.

CE 3223. Civil Engineering Materials 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 2411. Fall.

CE 3233. Structural Analysis II 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. Prerequisite, C or better in CE 3213. Fall.

CE 3253. Engineering Hydrology Studies of the hydrologic cycle, solar radiation and meteorology, precipitation, evaporation, transpiration, groundwater flow, hydrographs, flood routing, and probability concepts. Lecture three hours per week. Prerequisite, C or better in ENGR 3471 and ENGR 3473. Spring.

CE 3263. Introduction to Environmental Engineering Introduction to environmental engineering fundamentals, concepts of mass balance, water and wastewater treatment, air pollution, solid waste management, and hazardous waste. Lecture three hours per week. Prerequisites, C or better in BIOL 1063, CHEM 1013 and MATH 2204. Spring.

CE 3273. Water and Waste Systems Projection of water requirements and wastewater flows, water and waste systems hydraulics, design of water distribution systems, sanitary sewers, stormwater collection systems, and pumping systems. Lecture three hours per week. Prerequisites, C or better in CE 3253 and ENGR 3473. Fall.

CE 4203. Transportation Engineering I Introduction to concepts of transportation systems, principles of traffic theories, traffic engineering and operation, and transportation planning including basic concepts of public policy, administration, and involvement in transportation planning. An intersection design project is required. Prerequisite, C or better in CE 2202. Fall.

CE 4223. Transportation Engineering II Principles of highway survey and locations, geometric design, highway materials, pavement design, highway drainage, and pavement management. A highway design project is required. Prerequisite, C or better in CE 3223, CE 4203, CE 4251, and CE 4253. Dual listed as CE 5223. Spring.

CE 4233. Foundation Engineering 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. Fall.

CE 4243. Reinforced Concrete Design 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.

CE 4251. Soil Mechanics Laboratory Experiments in analysis of soil systems including index properties, compaction, compressibility and shear strength. Corequisite, CE 4253. Spring.

CE 4253. Soil Mechanics Physical properties of soils as used in design, specific gravity, grain size distribution, plasticity, permeability, compressibility, consolidation and shear strength. Corequisites, ENGR 3473 and CE 4251. Dual listed as CE 5253. Spring.

CE 4263. Water and Waste Treatment Design of physical, chemical and biological unit processes for treatment of water, wastewater and sludges. Advanced wastewater treatment processes are presented. Student papers on selected waste treatment applications are required. Prerequisites, C or better in CE 3253 and 3263. Dual listed as CE 5263. Spring.

CE 4283. Structural Steel Design Analysis and design of tension members, beams, columns, and beam-columns. Prerequisite, C or better in CE 3213. Dual listed as CE 5283. Spring.

CE 429V. Special Problems in Civil Engineering Individually directed problems in civil engineering for juniors and seniors. A course outline and project summary listing the goals and expected outcomes must be approved by the student advisor and the program director. Prerequisites are dependent on the nature of the special problem. Demand.

ELECTRICAL ENGINEERING PROGRAM

Electrical Engineering (EE)

EE 3303. Semiconductor and Optoelectronic Materials and Devices I Laboratory Experimentation and demonstrations in semiconductor growth and deposition, material analysis and characterization, doping, and processing. Fabrication of simple devices. Metallization, etching, and other manufacturing processes. Lecture one to two hours, laboratory four to five hours per week. Prerequisite, C or better in CHEM 1011, PHYS 2034, and EE 3401. Corequisite, EE 3363. Spring, even.

EE 3313. Electric Circuits II Transient analysis, average power, RMS values, mutual inductance, resonance, network theorems and principles, polyphase networks, complex power. Prerequisite, C or better in MATH 2214 and ENGR 2423. Spring.

EE 3331. Digital Electronics I Laboratory Experimentation and design with digital electronic and computer components and circuits including logic gates, flip flops, counters, and registers. Practical applications in timing and control. Logic families such as TTL, ECL, and CMOS. Prerequisite, C or better in ENGR 2421. Corequisite, EE 3333. Demand.

EE 3333. Digital Electronics I Introduction to the analysis and design of digital and computer circuits, Boolean algebra, binary arithmetic, combinational logic, sequential logic, registers, counters, adders, comparators, and computer organization. Prerequisite, C or better in either CS 2114 or ENGR 2423. Fall.

EE 3343. Engineering Fields and Waves I Study of time invariant electric and magnetic fields in free space and in materials, electrical current flow as a function of electric field, magnetic flux, interaction of magnetic fields with electrical current and voltage, electrical and magnetic potentials, time changing electric and magnetic fields, and introduction to Maxwell's Equations. Prerequisites, C or better in MATH 3254 and EE 3313. Fall.

EE 3353. Continuous and Analog Systems Methods of analysis of continuous and analog systems and associated synthesis, simulation, and design, system response in the time and frequency domains, Laplace transforms, Fourier series and transforms, transfer functions, and convolution. Prerequisite, C or better in EE 3313. Corequisite, MATH 4403. Fall.

EE 3363. Semiconductor Materials and Devices I Semiconductor materials and theory of solid state electronic devices. Semiconductor growth and processing techniques. Semiconductor parameters such as bandgap, mobility, carrier densities, diffusion length, carrier lifetime, and energy level distribution. Pn junctions and Schottky barriers. Constraints and limitations on practical devices. Prerequisite, C or better in CHEM 1013, PHYS 2034, and C or better in EE 3403 and ENGR 3443. Spring, even.

EE 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. Prerequisite, C or better in EE 3313. Spring.

EE 3401. Electronics I Laboratory Basic laboratory experiments in electronic circuits and solid state electronic devices. Corequisite, EE 3403. Prerequisite, C or better in ENGR 2421. Fall.

EE 3403. Electronics I Theory, analysis, and introductory design of diode, bipolar junction transistor, operational amplifier, and field effect transistor devices and circuits. Prerequisite, C or better in ENGR 2423. Fall.

EE 4303. Engineering Field and Waves II Study of electromagnetic waves in free space, dielectrics, and conductors, transmission lines, polarization, reflection, refraction, diffraction, waveguides, resonators, antennas, and radiation. Prerequisites, C or better in MATH 4403 and EE 3343. Dual listed as EE 5303. Demand.

EE 4313. Control Systems Analysis and design of linear feedback systems. Transfer functions, transient and steady state characterization, stability determination. Closed loop analysis and design using root locus and frequency domain methods. Prerequisites, C or better in EE 3403. Corequisite, EE 3353. Dual listed as EE 5313. Demand.

EE 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 4321. Electrical Machinery Laboratory Experiments dealing with motor, generators, transformers, and associated measurements and controls. Prerequisite, C or better in ENGR 2421. Corequisite, EE 4323. Demand.

EE 4323. Electrical Machinery Introduction to the analysis and design of electromechanical energy conversion systems, magnetic circuit theory, general transformer and machinery theory, and DC and AC motors and generators. Prerequisite, C or better in EE 3313 or ENGR 3473, and ENGR 3423. Dual listed as EE 5323. Demand.

EE 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 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 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. Dual listed as EE 5383.

EE 4773. Intermediate Electrical Engineering Laboratory Advanceddesign-orientedexperiments in electronics, measurement, interfacing, and other electrical engineering topics. Corequisite, EE 4373. Prerequisites, C or better in EE 3333, and EE 3401. Spring.

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.

MECHANICAL ENGINEERING PROGRAM

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 3613. Control Systems for Mechanical Engineering This course addresses the analytical tools and principles for control design for mechanical systems including time and frequency domain techniques, analysis of response, design parameters, types of control systems, PLCs, relationship between transfer function methods and state-space methods. Prerequisite, "C" or better in ME 3513. Corequisite, 3504. Fall.

ME 3533. Engineering Thermodynamics II Application of first and second law concepts to actual and ideal cycles and processes. Prerequisite, 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 4613. Introduction to Mechatronics With an emphasis on modeling, the course focuses on the performance characteristics and application of microprocessors, analog and digital electronics, and modern mechatronic systems and intelligent manufacturing, particularly smart sensors, controllers, and actuators. Prerequisite, C or better in ME 3613. Duel listed as ME 5613. Spring.

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 3443, and ENGR 3473. Dual listed as ME 5553. Fall.

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 ME 4553. 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.

COLLEGE OF FINE ARTS

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

DEPARTMENT OF ART

Art Education (ARED)

ARED 3702. Art for the Classroom Teacher Planning and developing creative art programs and art appreciation for the elementary grades. Prerequisite, 30 semester hours. Fall, Spring, Summer.

ARED 3803. Teaching Art in the Elementary Grades Techniques and strategies for teaching visual art to children in the elementary grades, developing an art curriculum, and learning to assess children's artwork are the focus of this course. Prerequisite, a grade of C or better in ART 1013, ART 1033, ARTH 2583, and ARTH 2593; 30 semester hours completed. Spring.

ARED 4703. Concepts in Art Education A study of historical and contemporary philosophical concepts in art education. Prerequisites, a grade of C or better in ARED 3803; acceptance into a teacher education program. 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. Spring.

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. 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. Prerequisites, a grade of C or better in 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. Fall, Spring, Summer.

ART 1043. Drawing II STUDIO ART. Continuation of ART 1033. Students become more skilled with visual elements and drawing principles. A broader range of materials and techniques will be used. Subject matter will include still life, life models, landscape, and imagined subjects. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. Prerequisite, a grade of C or better in ART 1033. Fall, Spring, Summer.

ART 1083. Elective Printmaking for Non majors STUDIO ART. Basic techniques in creating original designs in hand printing processes, including silkscreen, and wood block prints. May be repeated for credit, however, no more than 3 hours may be applied toward a degree in fields other than art. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. Fall, Spring.

ART 1093. Elective Ceramics for Non majors STUDIO ART. Basic exploration of techniques of clay manipulation including the use of the potters wheel. Lab assistants will fire selected pieces. May only be taken once and may not be repeated, 3 hours may be applied toward a degree in fields other than art. All other courses in Ceramics are reserved for Art Majors with all the required prerequisites. 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, permission of instructor. Fall, Spring.

ART 1413. Design Technology Introduces students to basic levels of graphic design utilizing Adobe Illustrator, Adobe Photoshop, and Adobe InDesign software. Includes problem-solving, color theory, design file input/output techniques, and use of tools for graphic design and image compositing. Enrollment restricted to declared Graphic Design majors. Spring.

ART 2413. Typography GRAPHIC DESIGN. Fundamentals of typography in both form and text. Emphasis on developing typographic literacy through history, type classification, letterform anatomy, hierarchy, visual structure, and how type works as a compositional element in graphic design. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio Graphic Design class. Prerequisites, a grade of C or better in ART 1013 and ART 1413. Fall.

ART 2423. Print and Publication Design GRAPHIC DESIGN. Exploration in the underlying principles of publication design and a practical introduction to the preparation of graphic design for printing. Topics include grid theory, text and display typography, sequence, page layout, type and image integration, and printing 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 Graphic Design class. Prerequisite, a grade of C or better in ART 2413. Spring.

ART 2443. Introduction to Web Design GRAPHIC DESIGN. Basic concepts of designing for the web using Site Maps, Wireframes and Mock-ups; introduction to HTML, emphasizing semantic use of elements; introduction to CSS as a way to separate content from presentation. 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. Prerequisites, a grade of C or better in ART 2413, or permission of instructor. Fall, even.

ART 2453. Visual Thinking STUDIO ART. Focuses on the process of lateral thinking and the visualization of design problems and their solutions. Emphasizes effective research, imagination, originality, and execution in various media. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio class. Prerequisite, a grade of C or better in ART 1033 and ART 1013; or permission of instructor. Spring.

ART 2503. Fine Arts-Visual FINE ARTS. Introduction to major artists, media, styles and works of art within their cultural and historical contexts for the non-art major. Note, this course does not meet general education requirements for any degree in art. Fall, Spring, Summer. (ACTS#: ARTA 1003)

ART 3033. Drawing III STUDIO ART. Students will focus on the human figure through drawing sessions employing life models, undergoing detailed studies of anatomy, and creating independent projects involving the figure. 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. Prerequisites, a grade of C or better in ART 1013, ART 1033 and ART 1043. 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. Prerequisites, a grade of C or better in ART 1013, ART 1033, and ART 1043. Fall, Spring.

ART 3073. Watercolor Painting STUDIO ART. Emphasis on the development of composition and techniques with transparent watercolor media. 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, a grade of C or better in ART 3063. 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. Prerequisites, a grade of C or better in ART 1013, ART 1033, and 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 class. Prerequisites, a grade of C or better in ART 1013, ART 1033, and 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. Prerequisites, a grade of C or better in ART 1013, ART 1023, ART 1033, and 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. Passing is prerequisite for 4000 level ART courses. Prerequisites, a grade of C or better in ART 1013, ART 1023, ART 1033, ART 1043, ART 3033, ARTH 2583, and ARTH 2893; a 2.75 GPA in all ART, ARTH, and ARED courses. 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. Prerequisites, a grade of C or better in ART 1013, ART 1033, and ART 1043. Fall.

ART 3413. Identity Design GRAPHIC DESIGN. Graphic design strategies using metaphors, iconography, and the creative process. Emphasis on semiotics, color, logos, letterhead packages and the elements of corporate identity design. Stress placed on problem solving using type and image and conceptual thinking. 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. Prerequisites, a grade of C or better in ART 1013, ART 1033, ART 1043, and ART 2423. Fall.

ART 3423. Package Design GRAPHIC DESIGN. Structure, color, and graphics and creative application to the field of packaging. Designing of three dimensional containers and displays. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio Graphic Design class. Prerequisites, a grade of C or better in ART 1013, ART 1033, ART 1043, and ART 2423. May be repeated for credit. Fall.

ART 3433. Digital Illustration GRAPHIC DESIGN. Introduction to illustration using computer applications. May be repeated for credit. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio Graphic Design class. Prerequisites, a grade of C or better in ART 1013, ART 1033, ART 1043, and ART 2423. Fall.

ART 3443. Advertising Design GRAPHIC DESIGN. Fundamentals and history of graphic design as it applies to advertising including the agency hierarchy and the advertising designer's role. Emphasis on accurate communication regardless of media through development and implementation of creative work plans, concepts, and implementation and presentation. 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, a grade of C or better in 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. 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. Prerequisites, a grade of C or better in ART 2423 and ART 2443. Spring odd.

ART 3463. Intermediate Web Design GRAPHIC DESIGN. Advanced HTML and CSS techniques to create sophisticated web page layouts that adhere to standards-based guidelines; introduction to client-side web interactivity using the jQuery library. Each student is required to create a full featured, graphic design portfolio website. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time. Prerequisites, a grade of C or better in ART 2423 and ART 2443. Spring.

ART 3863. Intermediate Painting STUDIO ART. Builds on basic skills and concepts from beginning drawing and painting courses, individualized projects exploring color and space in a variety of subject matter and approaches, and study of historical and contemporary art in relation to studio practice. 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, a grade of C or better in ART 3063; or permission of instructor. Fall, 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. 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. Prerequisites, a grade of C or better in ART 3033, and a grade of CR in ART 3330; or permission of instructor. 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. Prerequisites, a grade of C or better in ART 3863, and a grade of CR in 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, a grade of C or better in ART 3083, and a grade of CR in 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. May be repeated for credit. Prerequisites, a grade of C or better in 6 hours of ART 3093, and a grade of CR in ART 3330; permission of instructor required. 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. Prerequisites, a grade of C or better in ART 3103, and a grade of CR in ART 3330; or permission of instructor. Fall, Spring.

ART 4320. Exhibition Preparation Focus on information pertaining to the preparation for ART 4330. Prerequisites, a grade of CR in ART 3330; a 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 4331. Senior Exhibition 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. Prerequisites, a grade of CR in ART 3330 and ART 4320; a minimum GPA of 2.75 in all work with an ART, ARTH or ARED prefix; permission of advisor, instructor, and department chair required; 12 hours of 15 hour emphasis area completed prior to senior exhibition semester. Fall, Spring.

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. May be repeated for credit. Enrollment restricted to permission of Department Chair. Prerequisites, a grade of CR in 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 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. Prerequisites, a grade of C or better in ART 2423, and ART 3403, and a grade of CR in ART 3330; or permission of instructor. Spring, even.

ART 4413. Advanced Photography for the Graphic Designer 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. 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. Prerequisites, a grade of C or better in ART 4403; a grade of CR in ART 3330; or permission of instructor. Spring, even.

ART 4423. Campaign Design GRAPHIC DESIGN. Continuation of ART 3443 Advertising Design. Implementation of total campaign as it applies to non-profit and corporate/institutional design. Integrating creative and practical work across many applications within the campaign. Emphasis on concept development, creative writing, implementation and presentation. 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. Prerequisites, a grade of C or better in ART 3443; a grade of CR in ART 3330; or permission of instructor. May be repeated for credit. Fall.

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. Prerequisites, a grade of C or better in ART 3403, and a grade of CR in ART 3330; 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. 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, a grade of C or better in ART 4443. Fall, even.

ART 4473. Advanced Web Studio GRAPHIC DESIGN. Continuation of ART 3463. Based on lecture topics, students will complete self-directed research and experimentation culminating in practical applications within the coding environment. 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, C or better in ART 3643. Fall.

ART 4491. Graphic Design Portfolio GRAPHIC DESIGN. Capstone course required for all BFA, Graphic Design students. Portfolio Preparation of graphic design solutions demonstrating the student's overall knowledge and skills. May be repeated for credit. It is expected that students will spend a minimum of three additional clock hours per week on work outside 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, ARED prefix. Fall, Spring.

ART 4493. Portfolio Presentation GRAPHIC DESIGN. Capstone course required for all graduating BFA, Graphic Design emphasis students. Preparation of portfolio of graphic design solutions that demonstrate the students overall knowledge and special skills. It is expected that students will spend a minimum of three additional clock hours per week on work outside the scheduled class time for each studio Graphic Design class. Enrollment restricted to permission of advisor and instructor. Prerequisite, minimum GPA of 2.75 in all course work with an ART, ARTH, or ARED prefix. Fall, Spring.

Art History (ARTH)

ARTH 2583. Survey of Art History I General investigation of the historical development of art from prehistoric periods to the Renaissance, including Non-Western Art. Fall, Spring. (ACTS#: ARTA 2003)

ARTH 2593. Survey of Art History II Continuation of ARTH 2583, covering the period from the Renaissance to the Modern period, including Non-Western Art. Fall, Spring. (ACTS#: ARTA 2103)

ARTH 430V. Studies in Art History Individual directed study and investigation of pertinent areas in the history of art. May be repeated for credit. Prerequisites, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Summer, even.

ARTH 4443. 19th Century European Art This course examines major artists and works of art in Europe from the beginning of the French Revolution to the end of the nineteenth century. Prerequisites, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Fall even.

ARTH 4503. History of Photography History, aesthetics, and appreciation of photography. Prerequisites, a grade of C or better in 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, a grade of C or better in 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, a grade of C or better in 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, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Fall, 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, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Spring, odd.

ARTH 4593. Greek Art and Architecture A survey of Greek Art and Architecture from the early Classical through Hellenistic periods. Prerequisites, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Fall even.

ARTH 4603. Art of the 20th 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, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Spring, odd.

ARTH 4611. 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. Prerequisite, 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, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. 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, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Spring, odd.

ARTH 4693. Contemporary Art 1970 to Present This course examines major artists and works of art in Western culture from 1970 to the present day. Prerequisites, a grade of C or better in ARTH 2583 and ARTH 2593; or permission of instructor. Spring, even.

ARTH 4803. Art Theory and Criticism This course develops a link between art criticism and studio practice, relating contemporary art production and critical theory. Includes written reports and oral presentations concerning methodology and results of research. Prerequisites, a grade of CR in ART 3330; a minimum of 48 hours ART/ARTH courses; or permission of instructor. Spring.

Methods and Materials Teaching Art (EDAR)

EDAR 4523. Methods and Materials for Teaching Art Emphasis on the practical application of art in the secondary school. Techniques and strategies of teaching art, developing an art curriculum, assessing and motivating students. Must be admitted to the Teacher Education Program. Fall.

Teaching Internship (TIAR)

TIAR 4825. Art Teaching Internship in the Secondary School
Ten semester hours. Full semester teaching internship. Fall, Spring.

TIAR 4826. Art Teaching Internship in the Secondary School
Twelve semester hours. Full semester teaching internship. Fall, Spring.

DEPARTMENT OF MUSIC

Music Education (MUED)

MUED 3612. Music and Methods for the Classroom Teacher Development of procedures, skills, and approaches to the music program for the elementary classroom. For non music majors only. Fall, Spring, Summer.

MUED 4573. Methods and Materials for Teaching Instrumental Music Overview of the instrumental music curriculum. Emphasis on teaching strategies 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.

MUED 4643. Methods and Materials for Teaching Vocal Music Overview of the vocal music curriculum. Emphasis on teaching strategies to secondary school students. Opportunities to develop behavioral objectives, present demonstrations, plan rehearsals, and more. Must be admitted to the Teacher Education Program. Fall.

MUED 4613. Methods and Materials for Teaching Vocal Music in the Middle Grades Development of procedures, skills, and approaches to teaching general and choral music in grades 4-8. Demand.

MUED 4623. Methods and Materials for Teaching Elementary School Music Current philosophies and practices in curriculum planning for the elementary school music program. Music majors only. Spring.

MUED 4633. Music Recording Techniques Music recording techniques designed for the music educator. Special emphasis on essential electronic equipment, its use and maintenance. Demand.

MUED 4642. Piano Pedagogy Methods and materials of teaching piano. Permission of instructor required. Dual Listed MUED 5642. Demand.

MUED 4651. Instrument Repair Techniques for maintenance and minor repair of wind instruments. Spring.

MUED 466V. Special Problems in Music Education Independent study of approved topics for juniors and seniors arranged in consultation with a professor. Must have Departmental approval. Fall, Spring, Summer.

Music (MUS)

MUS 1211. Elementary Piano PERFORMANCE COURSES GROUP INSTRUCTION. Beginning piano class. Two laboratory periods per week. Special course fees may apply. Fall, Spring, Summer.

MUS 1221. Elementary Piano II PERFORMANCE COURSES GROUP INSTRUCTION. Continuation of beginning piano class. Two laboratory periods per week. Special course fees may apply. Prerequisite, MUS 1211 or permission of instructor. Spring.

MUS 1231. Guitar Class I PERFORMANCE COURSES GROUP INSTRUCTION. Open to all ASU students. An introductory course to learning the fundamentals of guitar playing. The course will focus on learning basic chords, conventional strumming techniques and finger picking, and notes in first position as well as the general technique of guitar playing. Special course fees may apply. Fall.

MUS 1241. Guitar Class II PERFORMANCE COURSES GROUP INSTRUCTION. Open to all ASU students who have completed Guitar Class I. Prerequisite, MUS 1231. May be repeated for credit. Special course fees may apply. Spring.

MUS 1251. Elementary Voice Class and Sight-Singing A class for all music majors designed to teach basic vocal techniques and the skill of sight-singing using solfeggio. Must be taken during the first year of enrollment as a music major. Fall.

MUS 1310. Wind Ensemble LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Membership is open to all university students by audition on specified prepared materials and sight reading during the first week of the fall semester. The wind ensemble usually performs two scheduled concerts, with possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 1311. Wind Ensemble LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Membership is open to all university students by audition on specified prepared materials and sight reading during the first week of the fall semester. The wind ensemble usually performs two scheduled concerts, with possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 1330. Symphonic Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students without audition. This group rehearses MWF from 3:30 to 4:30 p.m. during the Spring Term and performs two scheduled concerts. Special course fees may apply. Large ensemble courses may be repeated for credit. Spring.

MUS 1331. Symphonic Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students without audition. This group rehearses MWF from 3:30 to 4:30 p.m. during the Spring Term and performs two scheduled concerts. Special course fees may apply. Large ensemble courses may be repeated for credit. Spring.

MUS 1340. Marching Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Membership is open to all interested university students. This group performs at all regular and post season home football games with some travel to away games. Rehearsals are held TWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

MUS 1341. Marching Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Membership is open to all interested university students. This group performs at all regular and post season home football games with some travel to away games. Rehearsals are held TWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

MUS 1350. Concert Choir LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 1351. Concert Choir LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 1360. University Singers LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses my be repeated for credit. Fall, Spring.

MUS 1361. University Singers LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses my be repeated for credit. Fall, Spring.

MUS 1403. Music Connections Required course for all first semester freshmen music majors. Course content is centered around the skills and knowledge needed to be a successful ASU music student, including introductory musical concepts, practice habits, academic performance, problem solving, critical thinking, self-management and group-building skills, university policies, and other relevant issues. 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 II and Aural Theory II. Prerequisites, MUS 1611 or permission of instructor. Special course fees may apply. Fall, Spring, Summer.

MUS 1703. Introduction to Jazz Musicianship Fundamentals of music theory 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. Continuation of MUS 2211. Prerequisite, MUS 2211 or permission of instructor. Special course fees may apply. Spring.

MUS 2231. String Instrument Techniques PERFORMANCE COURSES GROUP INSTRUCTION. Class instruction in string instrument performance. Two laboratory periods per week. Special course fees may apply. Fall, Spring.

MUS 2503. Fine Arts-Musical FINE ARTS. An introduction to music for the listener who has had no formal musical training or experience. A study of musical styles and composers and their cultural and historical contexts. Fall, Spring, Summer. (ACTS#: MUSC 1003)

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 2611. Keyboard Skills 3 PERFORMANCE COURSES GROUP INSTRUCTION. For non pianist Music Majors. To develop piano sight reading and repertoire, and to enhance corresponding courses, Music Theory III and Aural Theory III. Prerequisites, MUS 1611 and MUS 1621 or permission of instructor. Non music majors admitted with permission of instructor. Special course fees may apply. Fall, Spring, Summer.

MUS 2621. Keyboard Skills 4 PERFORMANCE COURSES GROUP INSTRUCTION. For non pianist Music Majors. To develop piano sight reading and repertoire, and to enhance corresponding courses, Music Theory IV and Aural Theory IV. Prerequisites, MUS 1611 and MUS 1621 or permission of instructor. Non music majors admitted with permission of instructor. Special course fees may apply. Fall, Spring, Summer.

MUS 3211. Diction for Singers I PERFORMANCE COURSES GROUP INSTRUCTION. Fundamentals of proper pronunciation of English and German using the International Phonetic Alphabet. Two laboratory periods per week. Permission of instructor required. Special course fees may apply. Fall, Spring.

MUS 3221. Diction for Singers II PERFORMANCE COURSES GROUP INSTRUCTION. Continuation of Diction I. Fundamentals of proper pronunciation of Italian and French, using the International Phonetic Alphabet. Two laboratory periods per week. Prerequisite, MUS 3211 or permission of instructor. Special course fees may apply. Fall, 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 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 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 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 3320. Concert Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Provides a musical and educational forum for musicians to study and perform wind and percussion music at concerts or other sanctioned events. Open to all university students without audition. May be repeated. Spring.

MUS 3321. Concert Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Provides a musical and educational forum for musicians to study and perform wind and percussion literature at concerts or other sanctioned events. Open to all university students without audition. May be repeated for credit. Spring.

MUS 3330. Symphonic Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students without audition. This group rehearses MWF from 3:30 to 4:30 p.m. during the Spring Term and performs two scheduled concerts. Special course fees may apply. Large ensemble courses may be repeated for credit. Spring.

MUS 3331. Symphonic Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students without audition. This group rehearses MWF from 3:30 to 4:30 p.m. during the Spring Term and performs two scheduled concerts. Special course fees may apply. Large ensemble courses may be repeated for credit. Spring.

MUS 3340. Marching Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Membership is open to all interested university students. This group performs at all regular and post season home football games with some travel to away games. Rehearsals are held TWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

MUS 3341. Marching Band LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Membership is open to all interested university students. This group performs at all regular and post season home football games with some travel to away games. Rehearsals are held TWRF from 3:30 to 5:00 p.m. during the football season. Mandatory pre school rehearsals held the week prior to registration. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall.

MUS 3350. Concert Choir LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 3351. Concert Choir LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses may be repeated for credit. Fall, Spring.

MUS 3360. University Singers LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Non credit course. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses my be repeated for credit. Fall, Spring.

MUS 3361. University Singers LARGE ENSEMBLES CHORAL AND INSTRUMENTAL. Open to all university students by audition. Consists of scheduled concerts and possible tours. Special course fees may apply. Large ensemble courses my 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 3372. History of Western Music I BASIC MUSIC HISTORY AND LITERATURE. Evolution of musical style from the early Christian Church through the Pre-Classical era. Prerequisites, MUS 1513 and MUS 1523. Score and listening analysis are required. Spring.

MUS 3382. History of Western Music II BASIC MUSIC HISTORY AND LITERATURE II. Evolution of musical style in works from the mid-18th century to the present. Score and listening analysis are required. Prerequisites, MUS 3372. Fall.

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 3441. Elementary Conducting PERFORMANCE COURSES GROUP INSTRUCTION. Fundamental baton technique development and interpretation of the musical score. Two class meetings per week. Prerequisites, MUS 1513 and MUS 1523. Spring.

MUS 3451. 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. Prerequisite, MUS 3441. Fall.

MUS 3461. Instrumental Conducting PERFORMANCE COURSES GROUP INSTRUCTION. Intensive study of instrumental scores, baton techniques, and rehearsal procedures involved in conducting instrumental ensembles. Prerequisite, MUS 3441. 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 416V. Special Problems BASIC MUSIC. Independent study of approved topics for juniors and senior arranged in consultation with a professor. Department approval required. Prerequisite, Two semesters of theory or permission of instructor. Fall, Spring, Summer.

MUS 4221. Introduction to Music Technology BASIC USES OF TECHNOLOGY IN MUSIC. An introduction to using desktop and handheld computers in music teaching, music notation, and music recording. Students must be able to read music notation in treble and bass clefs. Spring.

MUS 4223. Piano Literature BASIC MUSIC HISTORY AND LITERATURE. Baroque, Classical, Romantic, and twentieth century piano music with special attention to style and level of difficulty. Prerequisite, Two semesters of theory or permission of instructor. Demand.

MUS 4322. History of Jazz BASIC JAZZ HISTORY AND LITERATURE. Evolution of jazz musical style in works from the early 20th century to the present. Spring.

MUS 4323. World Music This course will examine the music of a variety of non-western societies and cultures within which the music is produced. Prerequisites, HIST 1013, HIST 1023 or permission of Instructor. Demand.

MUS 4412. Form and Analysis BASIC MUSIC THEORY. Analysis of basic and larger forms of music. Demand.

MUS 4433. Improvisation of Jazz and Popular Music BASIC MUSIC THEORY. Fundamental techniques of improvising with emphasis on melodic and rhythmic principles. Demand.

MUS 4512. Church Music BASIC MUSIC HISTORY AND LITERATURE. A study of the music of the Christian Church with an emphasis on the historical and philosophical aspects. May be substituted for History I and II by BME and BM performance candidates. Prerequisite, Two semesters of theory or permission of instructor. Demand.

MUS 4642. Piano Pedagogy PERFORMANCE COURSES GROUP INSTRUCTION. Methods and materials of teaching piano. Prerequisite, permission of instructor. Demand.

Performance – Applied Music (MUSP)

MUSP 1100. Recital Attendance All music majors are required to attend a specified number of campus concerts and recitals. Fall, Spring.

MUSP 1111. Performance Applied Music One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

MUSP 1112. Performance Applied Music Two hours of credit. Two half hour lessons, or one 1 hour lesson per week. Ten hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

MUSP 1113. Performance Applied Music Three hours of credit. Two half hour lessons, or one 1 hour lesson per week. Fifteen hours practice required. Available only to Bachelor of Music degree candidates. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

MUSP 3111. Performance Applied Music One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

MUSP 3112. Performance Applied Music Two hours of credit. Two half hour lessons, or one 1 hour lesson per week. Ten hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

MUSP 3113. Performance Applied Music Three hours of credit. Two half hour lessons, or one 1 hour lesson per week. Fifteen hours practice required. Available only to Bachelor of Music degree candidates. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Fall, Spring.

MUSP 3130. Junior Recital One half. Student will perform a program equivalent to at least one half of a full solo recital. Fall, Spring.

MUSP 4131. Senior Recital Student will perform a full length solo performance. Fall, Spring.

MUSP 4141. Piano Chamber Music For advanced pianists. Experience with two-piano literature. One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Demand.

MUSP 4151. Collaborative Piano For advanced pianists. Permission of instructor required. May be repeated for credit. One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Demand.

MUSP 4161. Pedagogy and Performance The study of the literature and pedagogical techniques as related to performance. One hour credit. One half hour lesson per week. Five hours practice required. Students who are enrolled in 1 credit hour of Applied Music courses will be assessed a $35.00 special course fee. The maximum special course fee for students enrolled in 2 or more credit hours of Applied Music is $55.00. Prerequisite, MUS 3123 or permission of the instructor. May be repeated for credit. Fall, Spring, Summer.

Teaching Internship (TIMU)

TIMU 4825. Music Teaching Internship in the Secondary School
Ten semester hours. Full semester teaching internship. Fall, Spring.

TIMU 4826. Music Teaching Internship in the Secondary School
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

DEPARTMENT OF THEATRE

Theatre (THEA)

THEA 1203. Introduction to Theatre Basic principles of theatrical traditions and terminology. Fall.

THEA 1213. Beginning Acting Basic theories and techniques of the art of acting. May be repeated once, depending on progress. Fall, Spring.

THEA 1223. Principles of Stage Design An exploration of the basic elements of design that are used to create the visual theatrical environment. Spring, odd.

THEA 1393. Summer Children Theatre Performance The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 1403. Summer Children Theatre Performance The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 2203. Voice and Movement for Theatre I Incorporation of vocal techniques in acting styles, emphasis on vocal flexibility. May be repeated with faculty consent. Fall.

THEA 2213. Creative Improvisation Examines the actors physical, vocal, and psychological potential to create a clear and simple characterization without a written script. May be repeated depending on progress. Spring.

THEA 2223. Fundamentals of Stagecraft Techniques of constructing, painting, and rigging scenic units. Spring.

THEA 2233. Stage Makeup Basic principles of applying stage makeup. Spring..

THEA 2243. Stage Costume Construction Basic principles of stage costume construction. Fall.

THEA 2252. Introduction to Dance Styles Introduction to the basic fundamentals of dance language, and execution of fundamental dance techniques including those of ballet, jazz, tap, and musical theatre dance. Warm up, stretching, jumps, turns, across the floor and various combinations will be practiced. Fall, even.

THEA 2253. Stage Management Principles and practices of stage management. Spring, even.

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.

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 Introduction to aesthetic and critical appreciation of the art of theatre through lecture, live and video performance, and discussion. Fall, Spring, Summer. (ACTS#: DRAM 1003)

THEA 3203. Motion Picture Appreciation Movies as a work of art and a form of persuasion. Fall, Spring.

THEA 3213. Audition Techniques Preparation and execution of audition material. May be repeated with faculty consent. Prerequisite, THEA 1213. Fall.

THEA 3223. Studies in Dramatic Literature A reading introduction to plays and playwrights spanning from Greek to contemporary works. Fall, even.

THEA 3233. Play Analysis How playwrights achieved characterization, structure, and plot. Spring, even.

THEA 3243. Stage Combat Movement and combat techniques for the stage. May be repeated with consent of faculty. Prerequisite, THEA 2213. Spring, even.

THEA 3252. Theatre Laboratory Work on productions. Required of all Theatre Arts majors during every semester, except freshman semesters. Fall, Spring.

THEA 3263. Acting Shakespeare A thorough investigation of the acting techniques specific to performing Shakespeare through scene and monologue work. Prerequisite, THEA 1213. Spring, odd.

THEA 3273. Voice and Movement for Theatre II Incorporation of vocal techniques in acting styles, emphasis on vocal flexibility. May be repeated with faculty consent. Prerequisite, THEA 2203. Spring, odd.

THEA 3393. Summer Children Theatre Performance The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 3403. Summer Children Theatre Technical The research, preparation and presentation of children theatre plays for a live audience. Summer.

THEA 4203. Stage Directing I Directing techniques for theatrical productions. Prerequisite, THEA 2213 or consent of instructor. Fall.

THEA 4213. Acting on Camera Developing skills for performance in front of and for the television and film camera. Spring, odd.

THEA 4223. Scene Design Principles of theatrical design. Prerequisite, THEA 2223 of consent of instructor. Spring, odd.

THEA 4233. Advanced Makeup Design Hair styling and makeup design. Prerequisite, THEA 2233 or consent of instructor. Fall, even.

THEA 4243. Stage Costume Design The exploration of the history and design of costumes through a variety of projects. Prerequisite, THEA 1223 or consent of instructor. Spring, even.

THEA 4253. Theatre Management Study of the fundamentals of financial, promotional and regulatory procedures governing theatre management. Spring, odd.

THEA 4263. History of Theatre I From the Greek Period to the Renaissance Period. Fall, odd.

THEA 4273. History of Theatre II From the Renaissance Period to the Modern Period. Spring, even.

THEA 4283. Period Styles in Acting Study of form, structure, and techniques for period acting styles. May be repeated. Fall, odd.

THEA 4303. Stage Lighting Principles and practices of stage lighting and sound. Prerequisite, THEA 2223 or consent of instructor. Fall, even.

THEA 4313. Fundamentals of Playwriting Writing plays, including readings, exercises, and adaptation. 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 Introduction to the concept of culture. Fall, Spring, Summer. (ACTS#: ANTH 2013)

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. (ACTS#: CRJU 1023)

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 non-institutional correctional agencies and techniques including probation, parole, diversion, pretrial release, community service, restitution, halfway house, and similar programs. Spring.

CRIM 3223. Police and Society Explores the relationship of the police to courts, probation, community corrections, institutional corrections, and parole. Also explores the relationship between police and other social institutions and the philosophy of police as an agent of social control. Spring.

CRIM 3263. Criminology Sociological patterns of crime and criminals, with emphasis on causes, effects, and prevention. Fall, Spring.

CRIM 3323. Juvenile Delinquency Causative factors in home, school, and community, extent of the problem, and methods of prevention and treatment. Fall.

CRIM 4103. Criminal Justice Systems General functions of the individual agencies and the duties and responsibilities of the individuals who perform these functions. Fall.

CRIM 460V. Special Problems Individually directed problems in Criminology. Must be arranged with the professor and approved by department chair. Demand.

CRIM 470V. Internship Combines supervised work experience with study of selected agencies and organizations. Must be arranged with the professor and approved by the department chair. Fall, Spring, Summer.

Geography (GEOG)

GEOG 2613. Introduction to Geography Emphasizes the physical and cultural patterns in the world. Fall, Spring, Summer. (ACTS#: GEOG 1103)

GEOG 3603. World Regional Geography Surveys geographic regions of the world, emphasizing the different ways of living and thinking by man in these different regions. Fall, even.

GEOG 3613. Geography of the United States and Canada Emphasizes the physical and cultural backgrounds of the United States and Canada. Spring, even.

GEOG 3643. Introduction to Cultural Geography Systematic examination of various cultures, especially their philosophies and dynamics of resource utilization and economic development. Spring, even.

GEOG 3663. Geography of Africa Fundamental contemporary issues that challenge Africans within the context of historical genesis. An emphasis will be placed on the social, economic, environmental and political dynamics of various regions of Africa. Fall.

GEOG 3683. Economic Geography Spatial distribution and interrelations of economic factors and forces and how they are affected by geographic factors. Spring, even.

GEOG 3703. Political Geography Content and philosophy of political geography and a geographic approach to the patterns of power and conflict among nation states. Consideration of regional blocs, strategic areas, disputed zones, and the dynamic impact of technology. Demand.

GEOG 3723. Introduction to Physical Geography Weather and Climate Examines the nature and character of various components of the physical environment including basic weather elements, climate, landforms, soil and natural vegetation. Demand. (ACTS#: GEOG 2223)

GEOG 3743. Introduction to Land Use Planning Introduces the student to theoretical as well as practical aspects of land use planning, focusing on the spatial, economic, and political aspects of land use in both rural and urban settings. Demand.

GEOG 3813. Introduction to Geographic Information Systems Introduces students to Geographic Information systems concepts and techniques. Demand.

GEOG 4113. Water Resources Planning A study of the basic concepts of hydrology and the major issues associated with water resources planning and management. Demand.

GEOG 4223. Urban Geography History, structure, function, growth, location, land use, and problems of movement, and city region relationships. NOTE, GEOG 4223 and SOC 4223 are equivalent courses; credit may be received for only one of the courses. Fall, Summer, even.

GEOG 4313. Advanced Perspective in Historical Geography Examines issues that are both chronological and spatial in nature including settlement patterns, migration, and population trends. Demand.

GEOG 460V. Special Problems Individually directed problems in Geography. Must be arranged with the professor and approved by department chair. Demand.

GEOG 4613. Conservation of Natural Resources Current problems associated with the conservation of natural resources. Demand.

GEOG 4623. Environmental Management The dynamic nature of the earth's surface, using the hydrologic cycle as a broad framework for analyzing the physical environment and for assessing sound environmental management practices. Spring, even.

GEOG 4633. Climatology Climatic regions of the world; controlling factors of weather. Demand.

GEOG 4643. Geography of Arkansas Arkansas physical, cultural, and historical landscapes. Summer.

GEOG 4683. Senior Seminar The more important research methods in obtaining geographical information. Demand.

GEOG 470V. Internship in Geography Combines relevant work experience with classroom theory in public and private planning agencies. Must be arranged with professor and approved by the department chair. Demand.

GEOG 4813. Special Topics in Geography An intensive study of a region or pertinent topic in geography. May be repeated once when topic changes. Demand.

Sociology (SOC)

SOC 1013. Making Connections Sociology Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

SOC 2213. Introduction to Sociology Human society and social behavior. Fall, Spring, Summer. (ACTS#: SOCI 1013)

SOC 2223. Social Problems Application of sociological concepts and methods in the analysis of current social problems in the United States, including family and community disorganization, delinquency and crime, mental illness, and intergroup relations. Cross listed as SW 2223. Fall, Spring, Summer. (ACTS#: SOCI 2013)

SOC 3003. Sociology of Gender Origins, acquisition, structure, and change of gender roles in contemporary society, examined in terms of impact upon both the individual and society. Cross listed as WGS 3003. Fall, Spring, Summer.

SOC 3213. Sociology of Intimate Relationships Aspects of close social relationships, roles, power, love, conflict, and change. Cross listed as WGS 3213. Fall, even.

SOC 3223. Sociology of Families Emphasizes the sociocultural factors influencing the structure and development of marriage and the family. Fall, Spring, Summer.

SOC 3273. Social Stratification Examination of causes and consequences of social inequality with a focus on class, status, power and privilege, particularly in American society. Spring, Summer.

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 Examines race, ethnicity and other bases for minority status in society, focusing on social inequality and the social construction of minority and majority group statuses and relations. 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 Central concepts and techniques of conducting descriptive and inferential analysis employed in quantitative investigation to understand social processes and phenomena. Prerequisites, MATH 1023 or higher level math course. Corequisites, SOC 3381 Social Statistics Laboratory. Fall, Spring.

SOC 4003. Perspective on Death and Dying A multidisciplinary overview of major themes and perspectives on dying, death, and bereavement, including historical, cultural, social, and psychological aspects. Medical, legal and ethical issues. Grief and bereavement. The death system. Violent death, disasters and megadeath. Beyond death. Prerequisite, minimum of 60 hours. Summer.

SOC 4053. Today's Families Interdisciplinary Approaches An interdisciplinary course designed to promote a critical approach to examining the family and its role in society. Prerequisite, 12 hours of coursework in Interdisciplinary Family Minor or instructors permission. Cross listed as ECH 4053, NRS 4053, PSY 4053. Spring.

SOC 4063. Sociology of Disasters Discusses socio-cultural aspects of natural and human made disasters, with an emphasis on social causes and consequences. Spring, even.

SOC 4073. Sociology of Family Violence An overview of the causes, prevalence and consequences of child abuse, intimate partner violence, and elder abuse. Fall, odd.

SOC 4203. Social Deviance Describes and explains the violation of social norms. Spring.

SOC 4213. The Sociology of Childhood and Adolescence Examination of childhood and adolescence, not only in the contemporary U.S., but also historically and cross culturally, with an emphasis on children as actively involved in the creation and reproduction of childhood and adolescence and social change within their societies. Fall.

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 Examination of the context, content and contributions of sociological thinkers up to the early 20th century. Fall, Spring.

SOC 4253. Rural Sociology Multidimensional examination of the range of rural places, people, institutions, cultures, economies and change, with a focus on the United States and Arkansas. Spring.

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 Basic concepts and measures of the three central demographic processes of fertility, mortality and migration and introduction of contemporary population related issues. Spring, Summer, odd.

SOC 4293. Methods of Social Research Overview of quantitative and qualitative tools used in the social sciences to analyze relationships among social variables. Fall, Spring.

SOC 4323. Applied Research Techniques for analyzing social science data using the Statistical Package for the Social Sciences and other data analysis systems. Prerequisites, SOC 3383 and 4293, or equivalents. Fall, Spring.

SOC 4333. Sociology of Youth Subcultures Sociological study of youth subcultures from American, British and new subcultural perspectives, plus a range of historical and contemporary youth subcultures. Also covers various analytic topics such as identity, resistance, style, music, response, and consumption. Prerequisite, SOC 2213. Demand.

SOC 4343. Geographic Information Systems for the Social Sciences An introduction to the applied analysis of social and environmental geographic data. Includes a discussion of geographic data, maps, and conducting applied geographic analysis. Prerequisites, SOC 3383, SOC 4293 or POSC 3003 or PSY 3103 and PSY 3123 or QM 2113 and QM 3113 or AGRI 3233 and AGRI 4233 or TECH 3773 and TECH 4813. Fall.

SOC 4353. Sociology of Aging Survey of theories, methodologies, concepts, and major research findings regarding the aging of individuals and societies, using the U.S. as a central example. Fall.

SOC 4363. Environmental Sociology This course explores how our views of nature and the environment are socially constructed. In this context, we will examine how numerous environmental issues are created and exacerbated by social issues. We will also investigate actions that will reduce our ecological footprint. 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.

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 to the special needs of middle school students. Focus on the application of techniques and strategies for teaching language, literature, and composition to culturally diverse students. Must be admitted to the Teacher Education Program. Spring, even.

English (ENG)

ENG 0003. Basic Writing Intensive, individualized work on the basic strategy, organization, diction, and grammar of the collegiate essay. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. Fall, Spring, Summer.

ENG 0103. Composition for Non-Native Speakers I Comprehensive advanced grammar, sentence structure, and vocabulary for students scoring under 500 on the TOEFL. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. Fall, Spring.

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. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. 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. (ACTS#: ENGL 1013)

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. (ACTS#: ENGL 1023)

ENG 1023. Making Connections Humanities Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

ENG 1643. Introduction to Religion Demonstrates why and how religious belief and expression, though different in various cultures, remain vital forces. Required course for minor in Religious Studies. Fall.

ENG 2003. World Literature to 1660 Introduction to the analysis and interpretation of literary works from several historical periods ranging from early civilizations through the Renaissance. Fall, Spring. (ACTS#: ENGL 2213)

ENG 2013. World Literature Since 1660 Introduction to the analysis and interpretation of literary works from several historical periods ranging from the Renaissance to the present. Fall, Spring. (ACTS#: ENGL 2223)

ENG 2103. Introduction to Poetry and Drama Poetry and drama with emphasis on analytic reading and writing skills. Fall, Spring.

ENG 2113. Introduction to Fiction Short fiction and the novel with emphasis on analytic reading and writing skills. Fall, Spring.

ENG 3003. Advanced Composition Emphasis on the development of structure and style in the literary essay and on research skills. Spring.

ENG 3013. Practical Writing Emphasis on practical writing skills applicable to students in all disciplines. Will not apply to English degree requirements. Fall, Spring.

ENG 3023. Creative Writing Instruction and practice in the writing of poetry, fiction, and drama. May be repeated with change of literary category. Fall.

ENG 3033. Introduction to Writing Studies Inquiry and practice in the theory, ideology, and ethics of writing in private, public, professional, technological, and academic contexts. Spring.

ENG 3043. Technical Writing Forms and techniques of technical writing. Will not apply to English BA major requirements. Spring, odd.

ENG 3053. Introduction to Digital Writing Analysis of how multiple modes work together to create meaning in digital spaces. Production of digital texts with attention to genre, media, purpose, and audience. Prerequistes, ENG 1003 and ENG 1013. Spring, even.

ENG 3103. Introduction to Contemporary Literary Theory Introduction to the major theoretical approaches to literary criticism, ranging from formalism through poststructuralism. Fall, odd.

ENG 3223. British Literature to 1800 Major British authors, genres, and movements from the beginning to the end of the Neoclassical period. Fall, even.

ENG 3233. Shakespeare Introduction to the works of Shakespeare. Fall.

ENG 3243. British Drama to 1800 Drama in the Middle Ages, Renaissance, Restoration, and Neoclassical periods, including at least three Shakespeare plays. Spring, odd.

ENG 3263. British Literature Since 1800 Major British authors, genres, and movements from the Romantic period to the present. Fall, odd.

ENG 3293. British Novel Representative British novels. Spring, even.

ENG 3323. American Literature to 1865 Major American authors, genres, and movements from the beginning to the end of the Neoclassical period. Fall, even.

ENG 3363. American Literature Since 1865 Major American authors, genres, and movements from the Civil War to the present. Fall, odd.

ENG 3373. Regional American Literature Writings from a selected region of the United States. Fall, odd.

ENG 3393. American Novel Representative American novels. Spring, odd.

ENG 3453. World Literature Selected authors, genres, movements, or themes in world literature. Fall, even.

ENG 3463. Literature and Film A study of how literature and literary tradition translate into cinema. Prerequisites, ENG 2003, 2013, 2103, 2113 or equivalent. Fall, even.

ENG 3473. Contemporary Literature Global literature mainly from 1945 to the present, including British, American, and world authors. May focus on poetry, prose, or drama,or a combination of those. Fall.

ENG 3482. Special Projects Practicum in the teaching of composition for the preprofessional. Prerequisite, consent of instructor. Fall.

ENG 3483. The Bible as Literature Analytical and critical study of selected books of the Bible with emphasis on its component genres, literary qualities, and influence. May not be repeated for credit. Spring, odd.

ENG 3493. Popular Literature One or more selected topics of popular literature, for example, science fiction, fantasy, sport, detective fiction, and the best seller. Spring, even.

ENG 3583. Literature for Adolescents Fiction, poetry, and drama which meet the needs of upper elementary, middle school, and high school students. Fall.

ENG 3613. Introduction to Folklore Collection, classification, and analysis of folklore, with special emphasis on oral literature. Fall.

ENG 3623. American Folklore Survey of the unofficial culture which has helped to shape the American experience, with special emphasis on oral literature, conventional belief, and traditional lifeways. Spring, odd.

ENG 3633. Native American Verbal Art Examination of oral literature of the indigenous peoples of North America and of contemporary literature written by American Indians. Spring, even.

ENG 3643. African-American Folklore A study of African American culture through New World black traditions, including oral narratives and folksongs. Spring, even.

ENG 4023. Advanced Creative Writing Writing poetry, fiction, or drama. Prerequisite, ENG 3023 or permission of instructor. May be repeated with change of literary category. 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 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 4233. Sixteenth-Century Literature English literature during the sixteenth century. Selected continental writings may be included. Spring, even.

ENG 4243. Seventeenth-Century Literature English literature during the seventeenth century. Selected continental writings may be included. Fall, even.

ENG 4253. Restoration and Neoclassical Literature English literature during the late seventeenth and eighteenth centuries. Selected continental writings may be included. Spring, even.

ENG 4263. Romantic Literature Major currents and figures of the English Romantic movement. Selected background writings may be included. Fall, even.

ENG 4273. Victorian Literature Major currents and figures in the Victorian Age. Selected background writings may be included. Spring, odd.

ENG 4283. Modern British Literature English literature in the twentieth century. Selected background writings may be included. Fall, odd.

ENG 4333. American Romanticism American literature in the first half of the nineteenth century. Spring, odd.

ENG 4353. American Realism and Naturalism American literature in the second half of the nineteenth century and the early twentieth century. Spring, even.

ENG 4363. African-American Literature Survey of African American literature from its beginnings to the present. Spring, odd.

ENG 4373. Modern American Literature American literature since World War I. Spring, even.

ENG 4383. Multi-Ethnic American Literature African American, Asian American, Latino American, Native American, and/or ethnically specific Euro-American literary works. Fall, even.

ENG 4453. Women Writers A study of literature written by women. Cross listed as WGS 4453. Spring, odd.

ENG 4463. Special Topics Intensive study of individual authors, limited periods, movements, or specific theme. Demand.

ENG 4483. Special Topics in Writing Studies Intensive study of a topic, issue, or theory in the field of Writing Studies. May be repeated up to six hours when topic changes. Prerequisite, ENG 3033 or permission of the instructor. Fall, odd.

ENG 4613. Roots Music: Blues, 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. Fall, 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.

ENG 4711. Preceptorship in Writing Studies Instruction in professional and pedagogical practices in the field of Writing Studies. Prerequisite, ENG 3033. Fall.

ENG 4722. Internship in Writing Studies Supervised work in an approved professional setting. Prerequisite, six hours of courses applicable to the Writing Studies minor with grade of C or better and prerequisite or corequisite, ENG 4711. Fall.

ENG 4733. Advanced Internship in Writing Studies Supervised work in an approved professional setting. Prerequisite, ENG 4722. Spring.

Philosophy (PHIL)

PHIL 1103. Introduction to Philosophy Basic problems of philosophy based upon readings in the works of selected leading philosophers. A prerequisite for upper level philosophy. Fall, Spring. (ACTS#: PHIL 1103)

PHIL 1503. Logic and Practical Reasoning Topics include identification, evaluation, and construction of logical arguments, recognition of deductive and inductive thought, and detection of fallacies in everyday reasoning. Fall, Spring. (ACTS#: PHIL 1003)

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 Major trends and figures in the development of Western philosophy from the Renaissance into the nineteenth century. Spring, odd.

PHIL 3313. Philosophy of Religion Consideration of philosophical issues involved in the practice of religion. Sample topics include the nature and existence of God, the problem of evil, the foreknowledge problem, the relationship between science and religion, and mysticism and its claims. Fall, odd.

PHIL 3403. Theory of Knowledge Critical examination of some of the major problems concerning the nature and extent of knowledge, belief and evidence, epistemic justification, rationality, memory, perception, and induction. Fall, even.

PHIL 3423. Philosophy of Science Examination of the methods and presuppositions of science. Topics may include the nature of the scientific method, the demarcation problem, the structure and evaluation of theories, inductive reasoning, scientific explanation, scientific realism, and the relationship between philosophy and science. Fall, odd.

PHIL 3553. Symbolic Logic Rigorous treatment of sentential logic and predicate logic, proof techniques, and translation into symbolic notation. Additional topics may include basic issues in metatheory: the concepts of validity and truth, formal systems of deduction and their soundness and completeness. Prerequisite, PHIL 1503 or MATH 1023 or consent of instructor. Spring, odd.

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 some of the moral issues involved in the practice of medicine and attendant medical technology. Sample topics include the right to privacy, the moral permissibility of euthanasia, and appropriate distribution of scarce and expensive medical resources. Fall, Spring.

PHIL 3723. Computers, Ethics, and Society Introduction to moral, professional, and legal issues involving computer hardware and software. Prerequisite, PHIL 1103 or permission of instructor. Spring, even.

PHIL 3773. Topics in Feminist Philosophy Topics include, but are not limited to: Feminist Epistemology, Feminist Ethics, and Feminist Philosophy of Science. Prerequisite, PHIL 1103 or permission of instructor. Cross listed as WGS 3773. Spring, even.

PHIL 4213. Contemporary Philosophy Major trends and developments in philosophy since the late nineteenth century and selected issues and works of major figures in this period. Fall, odd.

PHIL 4403. Metaphysics Advanced study of the fundamental nature of reality, including but not limited to: ontology, modality, causation, space and time, mereology, and personal identity. Prerequisite, PHIL 1103 or permission of instructor. 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 Exploration of issues in normative ethical theory and metaethics. Sample topics include consequentialism, deontology, constructivism, moral skepticism, moral relativism, and the moral realism/anti-realism debate. Fall, odd.

PHIL 4723. Aesthetics The nature of art, designed to help students respond intelligently to works of art. Fall, even.

PHIL 4733. Environmental Ethics Investigation of the moral dimensions of environmental issues, including the moral standing of animals, the ethics of population control measures, questions of justice relating to pollution generation and restriction, and ethical problems involved in the production and consumption of food. Prerequisite, PHIL 1103. Spring, 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. Cross listed as WGS 4743. 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. Cross listed as WGS 4763. 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. Special Topics in Philosophy Advanced study of selected topics in philosophy. Content will vary. May be repeated for a maximum of 9 hours credit. Prerequisite, 9 hours of philosophy. Fall.

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.

Women and Gender Studies (WGS)

WGS 3003. Sociology of Gender Origins, acquisition, structure, and change of gender roles in contemporary society, examined in terms of impact upon both the individual and society. Cross listed as SOC 3003. Fall, Spring, Summer.

WGS 3213. Sociology of Intimate Relationships Aspects of close social relationships, roles, power, love, conflict, and change. Cross listed as SOC 3213. Fall, even.

WGS 3333. Women's Health: Past, Present, Future Health problems of women studied 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. Cross listed as NRS 3333. Fall, Summer.

WGS 3693. United States Women's History The role of women in United States history from 1600 to the present. Cross listed as HIST 3693. Spring, odd.

WGS 3773. Topics in Feminist Philosophy Topics include, but are not limited to: Feminist Epistemology, Feminist Ethics, and Feminist Philosophy of Science. Prerequisite, PHIL 1103 or instructor's permission. Cross listed as PHIL 3773. Spring, even.

WGS 4323. Race, Gender and Media Survey of the interface between Americans of color, women and the mass media in the United States. Cross listed as MMJ 4323. Fall.

WGS 4453. Women Writers A study of literature written by women. Cross listed as ENG 4453. Spring, odd.

WGS 4473. U.S. Southern Women's History Examines the history and changing status of women in the U.S. South from the 1400s to the present. Cross listed as HIST 4473. Spring, even.

WGS 4483. History of Sexuality in America Forces which have shaped American beliefs and practices concerning sexuality, and the roles played by gender, race and class. Cross listed as HIST 4483. Fall, odd.

WGS 4743. Social and Political Philosophy Explores the justification, or lack thereof, of social and political institutions. Prerequisite, PHIL 1103, Introduction to Philosophy, equivalent, or instructor's permission. Cross listed as PHIL 4743. Fall, even.

WGS 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. Cross listed as PHIL 4763. Spring, even.

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. (ACTS#: HIST 1113)

HIST 1023. World Civilization Since 1660 WORLD AND EUROPEAN HISTORY. Continuation of HIST 1013, with emphasis on the past three centuries. Fall, Spring, Summer. (ACTS#: HIST 1123)

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. (ACTS#: HIST 2113)

HIST 2773. The United States since 1876 UNITED STATES HISTORY. Social, economic, and political developments from Reconstruction to the present. Fall, Spring, Summer. (ACTS#: HIST 2123)

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 3043. 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.

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 3133. Latin America, The National Period WORLD AND EUROPEAN HISTORY. Development of Latin American nation states. Spring, even.

HIST 3173. Classical Mediterranean Civilization WORLD AND EUROPEAN HISTORY. Major developments of the 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 Pre-Law students. Demand.

HIST 3223. Renaissance and Reformation Europe WORLD AND EUROPEAN HISTORY. Political, economic, and cultural change in post-medieval Europe, 1350 to 1600. Spring, odd.

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 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 3483. The United States from 1917-1941 UNITED STATES HISTORY. Social, political, and economic developments in the United States from 1917 to 1941. Spring, odd.

HIST 3493. The United States Since 1945 UNITED STATES HISTORY. Social, political, and economic developments in the United States from 1945 to the present. Fall, even.

HIST 3503. U.S. Foreign Relations since 1900 UNITED STATES HISTORY. History of United States relations with foreign nations from 1900 to the recent past. Fall, even.

HIST 3563. Constitutional History of the United States UNITED STATES HISTORY. Origin and development of American legal and constitutional systems. Recommended for pre-law students. Fall, odd.

HIST 3583. History of Law Enforcement UNITED STATES HISTORY. Policing, crime, and the criminal justice system in the United States. Recommended for criminology majors. Spring, even.

HIST 3603. The American South UNITED STATES HISTORY. The South in American history from Jamestown through the twentieth century. Fall,odd.

HIST 3623. The American West UNITED STATES HISTORY. The American West from the Lewis and Clark expedition to the closing of the frontier. Fall, even.

HIST 3653. The American Indian UNITED STATES HISTORY. History and culture of the American Indian and the role of government in Indian affairs. Spring, even.

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. Cross listed as WGS 3693. 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 3853. U.S. Civil Rights Movement UNITED STATES HISTORY. The transformation of America through campaigns for African Americans civil rights. Prerequisites, HIST 2773, or HIST 3683, or POSC 3163, or instructors permission. Fall, even.

HIST 4113. Imperial Russia WORLD AND EUROPEAN HISTORY. Russian history to the Revolution of 1917. Fall, odd.

HIST 4123. Soviet Russia WORLD AND EUROPEAN HISTORY. The U.S.S.R. 1917 to present. Spring, even.

HIST 4133. History of Ancient China WORLD AND EUROPEAN HISTORY. Ancient Chinese civilization from the founding of the Shang Dynasty, 1766 B.C., to the end of the Three Kingdoms Period, A.D. 280. Demand.

HIST 4143. The Rise of Modern China WORLD AND EUROPEAN HISTORY. Major developments in Chinese history with emphasis on the twentieth century. Fall, odd.

HIST 4213. History of England, 55 BC to AD 1689 WORLD AND EUROPEAN HISTORY. The social, political, and ecclesiastical history of England from Julius Caesars reconnaissance to the Glorious Revolution. Fall, even.

HIST 4223. History of Great Britain. 1688 to 1982 WORLD AND EUROPEAN HISTORY. The social, political, economic, and imperial history of Great Britain from the Glorious Revolution to the Falklands War. Spring, odd.

HIST 4243. The Vikings WORLD AND EUROPEAN HISTORY. The impact of the Viking phenomenon on Europe, and of Europe on Norse culture in the 7th-13th centuries. Fall, odd.

HIST 4263. Early Christianity WORLD AND EUROPEAN HISTORY. Growth and influence of Christianity in Mediterranean and European lands, to 600 C.E. Dual listed HIST 5263. Fall, even.

HIST 4273. History of Mexico WORLD AND EUROPEAN HISTORY. Emphasizes contemporary developments and relations with the United States. Spring, odd.

HIST 4303. The Idea of History GENERAL HISTORY. Study of the idea of history in its chronological, practical, and historiosophical manifestations. Spring.

HIST 4312. Computer Technology for the History/Social Sciences Educator GENERAL HISTORY. Hands on experience in evaluating, creating and using history web sites and software, and developing presentation skills using the computer, for teaching in the secondary classroom. Spring, Summer.

HIST 4413. Colonial North America UNITED STATES HISTORY. Colonial development from Jamestown through the American Revolution. Fall, even.

HIST 4423. Foundations of the American Republic, 1783 to 1850 UNITED STATES HISTORY. Major political and social developments between the Revolution and the Civil War. Summer, odd.

HIST 4453. United States Civil War and Reconstruction UNITED STATES HISTORY. The Civil War period and the resulting problems of Reconstruction. Fall, even.

HIST 4463. U.S. Gilded Age 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. Cross listed as WGS 4473. 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. Cross listed as WGS 4483. 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 4553. History of Medicine WORLD AND EUROPEAN HISTORY. Worldwide survey of medicine, disease, and health from prehistoric times to the present. Fall, odd.

HIST 4563. Plagues and Pestilence in World History WORLD HISTORY. Effects of the relationship between humans and infectious disease, from prehistory to AIDS and bioterrorism. Spring, even.

HIST 4583. Special Topics in American History UNITED STATES HISTORY. Subtitle varies. Topic varies, but especially emphasizes new developments in American history. May be repeated for credit with different subtitle. Demand.

HIST 4593. Special Topics in World History WORLD AND EUROPEAN HISTORY. Subtitle varies. Topic varies, but especially emphasizes new developments in World History. May be repeated for credit with different subtitle. Demand.

HIST 460V. Special Problems in History GENERAL HISTORY. Individual problems in history for juniors and seniors, arranged in consultation with a professor. Must be approved by the department chair. Demand.

HIST 4703. Internship in Public History GENERAL HISTORY. Supervised practical experience with public agencies or private businesses in history related subjects. Prerequisite, consent of the department chair. Demand.

HIST 4803. Senior History Seminar GENERAL HISTORY. Advanced study of selected topics, with focus on historical research, writing and critical thinking. Senior history or social science majors only. Content varies. Demand.

Teaching Internship (TIHI)

TIHI 4825. History Teaching Internship in the Secondary School
Ten semester hours. Full semester teaching internship. Fall, Spring.

TIHI 4826. History Teaching Internship in the Secondary School
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

DEPARTMENT OF POLITICAL SCIENCE

Political Science (POSC)

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 credits requirement for a First Year Experience. Fall.

POSC 1303. Introduction to Model United Nations COMPARATIVE POLITICS. Preparation for and participation in model United Nations. Fall, Spring.

POSC 2103. Introduction to United States Government AMERICAN POLITICS. The constitution, government, and politics of the United States. Fall, Spring, Summer. (ACTS#: PLSC 2003)

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 3123. 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 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 Presidency AMERICAN POLITICS. U.S. presidency and national executive processes in the American political system. Spring, even.

POSC 3163. Black Politics AMERICAN POLITICS. Exposes students to the variety of literature on Black people in American politics, political strategies and actions are the major themes. Spring, even.

POSC 3173. Civil Liberties PUBLIC LAW. Judicial and statutory interpretations of the fundamental liberties contained in the U.S. Constitution. Spring.

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, even.

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 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 3503. Principles of Public Administration PUBLIC ADMINISTRATION. Survey of the field of public administration and its problems. Spring.

POSC 3513. Public Budgeting Process PUBLIC ADMINISTRATION. The public budgeting processes of the United States and of Arkansas, administrative and political problems connected with raising and expending public revenues. Spring, even.

POSC 4003. Special Topics Political Science Current subjects of interest in Political Science with appropriate subtitles. All special topics must be approved by the Department Chair. Demand.

POSC 4113. American Legislative Process AMERICAN POLITICS. Structure and organization of legislative bodies, with a detailed study of legislative processes. Spring, odd.

POSC 4123. Women in Politics AMERICAN POLITICS. An examination of the interrelationship of gender, politics, and popular culture. Spring, odd.

POSC 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.

POSC 4153. Politics and Popular Culture by the Decade An analysis of the intersection of politics and popular culture for a particular decade, to be chosen by instructor. Fall even.

POSC 4223. Middle Eastern Political Systems COMPARATIVE POLITICS. Major Middle Eastern political systems, with concentration on their common characteristics and major differences. Spring, odd.

POSC 4233. Life Sex Death or Body Politics in Comparative Perspective. COMPARATIVEPOLITICS. A cross-national study of policy and policy change with respect to state regulation of the body. Prerequisite: Completion of POSC 3003 or permission of the instructor. Spring, even.

POSC 4313. International Organization INTERNATIONAL POLITICS. Development, structure, and politics of international organizations such as the United Nations. Fall, odd.

POSC 4453. Analysis of Contemporary Political Theory POLITICAL THEORY. An analytical and theoretical examination of one or more theoretical political issues of the 20th and 21st centuries. Topics of analysis may include democracy, justice, community, political ethics, multiculturalism, or the theories of a particular political philosopher or school of political philosophy. Content will vary. Spring.

POSC 4503. Public Policy, Politics and Power PUBLIC ADMINISTRATION Provides a framework for understanding the fundamentals of the American public policy making process, the political context in which it operates and the theories of power that affect it. Spring, odd.

POSC 4513. Disaster Response Operation Management PUBLIC ADMINISTRATION. Roles and responsibilities of public managers and others within the National Incident Management System. May be credited toward Minor in Homeland Security and Disaster Preparedness. Fall-odd.

POSC 4523. Public Personnel Administration PUBLIC ADMINISTRATION. Policies, methods, and techniques utilized in public personnel. Fall.

POSC 4533. Environmental Law and Administration PUBLIC ADMINISTRATION. Overview of current environmental law, its administration and enforcement. Demand.

POSC 4553. HSDP Capstone PUBLIC ADMINISTRATION. Application of skills and knowledge gained in the minor to the analysis of a specific need or problem and the design of solutions. Teamwork among various specialties with the field. Prerequisite, NRS 3503. Permission of instructor required. Cross listed as NRS 4553, DPEM 4553. Spring.

POSC 480V. Readings in Political Science READINGS IN POLITICAL SCIENCE. Independent readings for all advanced students regardless of major. Limited to three hours. Students must have consent of instructor and department chair. Fall, Spring, Summer.

POSC 481V. Internships GENERAL POLITICS. Placement of students in community based and government agencies to provide a practical framework for applying the theoretical instruction of the classroom. Demand.

DEPARTMENT OF WORLD LANGUAGES AND CULTURES

Arabic (AR)

AR 1036. Accelerated Elementary Arabic Pronunciation and basic grammar, simple speaking and listening comprehension skills, and cultural understanding of the Arabic world. Fall.

AR 2036. Accelerated Intermediate Arabic Further development of listening and speaking skills, with increasing emphasis on reading and writing. Continuation of AR 1036. Spring.

Chinese (CHIN)

CHIN 1013. Elementary Chinese I Basic Mandarin Chinese speaking and listening comprehension skills, basic grammar, reading and character writing, basic familiarity with Chinese culture. Fall.

CHIN 1023. Elementary Chinese II Continuation of CHIN 1013. Further development of basic Mandarin Chinese speaking and listening comprehension skills, basic grammar, reading and character writing, basic familiarity with Chinese culture. Prerequisite, CHIN 1013 or consent of the instructor. Spring.

CHIN 1036. Accelerated Elementary Chinese Pronunciation and basic grammar, simple speaking and listening comprehension skills, and cultural understanding of the Mandarin Chinese speaking areas. Fall.

CHIN 2013. Intermediate Chinese I Continuation of CHIN 1023. Further development of basic Mandarin Chinese speaking and listening comprehension skills, basic grammar, reading and character writing, basic familiarity with Chinese culture. Prerequisite, CHIN 1023 or consent of instructor. Fall.

CHIN 2023. Intermediate Chinese II Continuation of CHIN 2013. Further development of basic Mandarin Chinese speaking and listening comprehension skills, basic grammar, reading and character writing, basic familiarity with Chinese culture. Prerequisite, CHIN 2013 or consent of instructor. Spring.

CHIN 2036. Accelerated Intermediate Chinese Continuation of CHIN 2036. Further development of listening and speaking skills, with increasing emphasis on reading and writing. Spring.

CHIN 350V. Special Topics in Chinese Advanced study in Chinese language and culture to facilitate advanced-level communication skill development. Cultural and linguistic emphases may vary. May be repeated when topic changes. Prerequisite, CHIN 2036 or consent of instructor. Demand.

Methods and Materials for Languages (EDLA)

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. Fall.

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. (ACTS#: FREN 1013)

FR 1023. Elementary French II Continuation of FR 1013. Prerequisite, FR 1013 or consent of instructor. Spring. (ACTS#: FREN 1023)

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. Prerequisite, FR 1023 or consent of instructor. Fall. (ACTS#: FREN 2013)

FR 2023. Intermediate French II Continuation of FR 2013. Prerequisite, FR 2013 or consent of instructor. Spring. (ACTS#: FREN 2023)

FR 2036. Accelerated Intermediate French I and II Intensive one semester course in Intermediate French designed to cover the material programmed for the regular second year of French. Continuation of FR 1036 or FR 1023. Spring.

FR 3183. French Conversation and Phonetics Practice toward developing facility in oral expression in various everyday situations, with some attention to 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 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 in French 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 480V. Independent Study in French Independent course of study in French for advanced students only. Must have consent of department chair. May be repeated for up to six hours of credit for majors and up to three hours of credit for minors. Prerequisite, FR 2023 or FR 2036 or consent of instructor. Demand.

German (GER)

GER 1013. Elementary German I The listening, speaking, reading, writing approach to develop basic language skills. Fall. (ACTS#: GER 1013)

GER 1023. Elementary German II Continuation of FR 1013. Prerequisite, FR 1013 or consent of instructor. Spring. (ACTS#: FREN 1023)

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 elements of the language. Continuation of FR 1023 or FR 1036. Prerequisite, FR 1023 or consent of instructor. Fall. (ACTS#: FREN 2013)

GER 2023. Intermediate German II Continuation of FR 2013. Prerequisite, FR 2013 or consent of instructor. Spring. (ACTS#: FREN 2023)

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.

GER 3163. Advanced German 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. (ACTS#: SPAN 1013)

SPAN 1023. Elementary Spanish II Continuation of SPAN 1013. Prerequisite, SPAN 1013 or consent of instructor. Fall, Spring, Summer. (ACTS#: SPAN 1023)

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. Prerequisite, SPAN 1023 or consent of instructor. Fall, Spring, Summer. (ACTS#: SPAN 2013)

SPAN 2023. Intermediate Spanish II Continuation of SPAN 2013. Prerequisite, SPAN 2013 or consent of instructor. Fall, Spring, Summer. (ACTS#: SPAN 2023)

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 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 Spanish 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 Américas A panoramic approach to the histories, geographies, social constructs, and political scenarios of the Spanish speaking Americas. Prerequisite, SPAN 3183 or consent of instructor. Spring, odd.

SPAN 3473. Reading and Composition in Spanish 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 3503. Advanced Spanish Seminar Focused study in a particular area of literature, culture or language. Topic varies. May be repeated when topic changes. Prerequisites, SPAN 2023 or consent of instructor. Spring.

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 in Spanish 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 4703. Internship in Spanish Provides practical experience in the Spanish language and Hispanic cultures at a site offering interaction with the Hispanic community. Prerequisite, 12 hours of Spanish above the intermediate level and approval of department chair. May be repeated for credit, but only 3 hours may be applied to the major or minor requirements. Demand.

SPAN 480V. Independent Study For advanced students only. Must have consent of department chair. May be repeated for up to six hours of credit for majors and up to three hours of credit for minors. Prerequisite, SPAN 2023 or SPAN 2036 or consent of instructor. Demand.

World Languages (WLAN)

WLAN 4010. Learning Outcome Assessment World Languages and Cultures program learning outcome assessment for seniors. Fall, Spring, Summer.

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 MEDIA AND COMMUNICATION

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

Media and Communication (CMAC)

CMAC 1001. Media Grammar and Style Writing mechanics for media. An introduction to applying basic grammar, spelling and media style rules and guidelines professionals use for writing across multiple media platforms. Can be taken concurrently with CMAC 2003 with consent of chair. Test-out option available. Fall, Spring, Summer.

CMAC 1003. Mass Communications in Modern Society A study of the interaction between society and mass communication through the lenses of history, theory, economics, culture, law, and technology.

CMAC 2003. Media Writing Basic writing for print, broadcast and Internet media. Course includes attention to news style and grammar. Pre/Co-requisite, CMAC 1001. Fall, Spring, Summer.

CMAC 2053. Introduction to Visual Communications The study of the principles, theories, and language of visual communication to help students analyze, interpret and apply visual content to communicate more effectively. Fall, Spring.

CMAC 3001. Professional Seminar An overview of professional careers, etiquette, and best practices in a broad range of communication and media based contexts. Fall, Spring.

CMAC 4063. Internship Supervised work in an approved communications-related setting. Prerequisite, consent of the department chair and faculty advisor. Fall, Spring, Summer.

CMAC 4073. Communications Law and Ethics Legal and ethical limitations and privileges affecting the mass media. Fall, Spring, Summer.

DEPARTMENT OF MEDIA

Creative Media Production (CMP)

CMP 2313. Multimedia Production Introductory course in audio, video, photo and text production for many distribution platforms. Prerequisite, CMAC 2053. Fall, Spring, Summer.

CMP 3303. History of Moving Images and Narrative Motion Picture A study of the oral, written, live theatre and still photography storytelling contributions to the origins of narrative motion pictures. Fall, Spring, Summer.

CMP 3313. Audio and Video Production An intermediate course in audio and video technology and production for many distribution platforms. Audio production covers radio, audio recording, audio for video production, and web distribution. Video production covers videography, directing, and multi-camera production. Prerequisite, CMP 2313. Fall, Spring, Summer.

CMP 3353. Field and Post Production An experiential course in the technical skills and creative principles required for video field production and postproduction, focusing on writing, producing, planning, shooting, and editing video projects and assignments. Prerequisite, CMP 2313. Fall, Spring.

CMP 3343. Advanced Radio Practicum Special practices in radio station operation, with special assignments relative to operation of KASU. Prerequisite, CMP 3313. Fall. Spring, Summer.

CMP 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 media research. Cross-listed as MMJ 3363. Fall, Spring.

CMP 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 communicators. Basic computer competency required. Cross-listed as MMJ 3373. Fall, Spring.

CMP 3403. Screenwriting for Narrative Motion Pictures Study and application of writing and scripting techniques for narrative motion picture, including synopsis, sequence outline, treatments and screenplay. Characterization and genre conventions are also considered. Fall, Spring.

CMP 3503. Film Cinematography, Lighting and Editing Introduction to the theory and techniques of cinematography, lighting, and editing for narrative filmmaking. Prerequisite, consent of instructor. Fall, Spring, Summer.

CMP 3573. Sports Production Theory and practical application of sports production for radio and television. Fall, Spring.

CMP 3673. Seminar in Digital Media and Design A study of the development and impact of digital media. Spring.

CMP 4303. Advanced Filmmaking Techniques In-depth study of narrative filmmaking as an art form. Students develop greater expertise in shooting properly exposed and imaginatively composed images, storyboarding, production techniques, composition aesthetics, lighting, sound mixes, and digital non-linear editing. Prerequisites, CMP 3303, CMP 3403, CMP 3503. Spring.

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

CMP 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. Prerequisites, PRAD 3013, CMP 2313 and CMP 3033. Fall. Special course fee $25.

CMP 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.

CMP 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 CMP 3313. May be repeated for a maximum total of six credit hours. Fall, Spring.

CMP 4483. Broadcast Graphics Development and production of graphics for video, television, and internet-based media. Fall.

CMP 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, CMP 4303 or consent of instructor. Fall, Spring.

CMP 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, CMP 3373. Fall, Spring, Summer.

CMP 4563. Sports Programming Theory and practical application of sports programming for radio and television. Spring.

CMP 488V. Special Problems Prerequisite, approval of Department Chairman and faculty. Fall, Spring, Summer.

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 An overview of the preparation of digital graphics, photographs and text for publication, and of their interrelationships. Includes application of current digital publishing software programs. Fall.

GCOM 2673. Digital Prepress Workflow Comprehensive overview of the major prepublishing workflow elements and the options or their interrelationships. Spring.

GCOM 3603. Graphic Production System 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 1813. Fall.

GCOM 3673. Desktop Publishing and Publication Design Electronic publishing and publication design using desktop publishing software programs. Fall, Spring, Summer. Course Fee $25.00

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.

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 CMP 4363. Permission of instructor required. Fall, odd.

GCOM 488V. Special Problems in Graphic Communications Designed to provide individually directed research in some special area of printing for seniors. Should be arranged in consultation with a professor in the specified field of interest prior to the semester of study and approved by the department chair. A written paper is required. Fall, Spring, Summer.

Multimedia Journalism (MMJ)

MMJ 2010. Multimedia Reporting Lab Laboratory for Multimedia Reporting. Must be taken concurrently with MMJ 2013. Fall, Spring.

MMJ 2013. Multimedia Reporting Techniques of newsgathering, with practical experience in interviewing and reporting for news media. Must be taken concurrently with MMJ 2010. Prerequisite, C or better in CMAC 2003 and CMP 2313 or consent of instructor. Fall, Spring.

MMJ 3001. Contemporary Events and the Mass Media Weekly review of news events and the mass medias coverage of them. Fall, Spring.

MMJ 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, MMJ 2013. Fall.

MMJ 3040. Beginning Photojournalism Laboratory Laboratory for Beginning Photojournalism. Must be taken concurrently with MMJ 3043.Fall, Spring, Summer

MMJ 3043. Beginning Photojournalism Basic concepts and functional skills associated with digital photography and the field of photojournalism. Must be taken concurrently with MMJ 3040. Lab fee, $10.00. Special course fee, $10.00. Fall, Spring, Summer.

MMJ 3053. Sports Reporting Traditional sports reporting for broadcast, print, and web in historical, theoretical, and practical contexts. Prerequisites, CMAC 1001and CMAC 2003. Fall, Spring.

MMJ 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, MMJ 2013. Fall.

MMJ 3073. News Design Principles of visual communication, digital and print media design, elements and practices of digital and press publication, media economic theory and practice. Prerequisite, MMJ 2013. Spring.

MMJ 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.

MMJ 3090. Intermediate Photojournalism Laboratory Laboratory for Intermediate Photojournalism. Must be taken concurrently with MMJ 3093. Spring

MMJ 3093. Intermediate Photojournalism Functional skills and theoretical foundations in professional photojournalism. Approved digital camera and appropriate lenses, flash, and tripod required. Three hours of laboratory work per week. Must be taken concurrently with MMJ 3090. Prerequisites, MCOM 2003 and MMJ 3043 or consent of the instructor. Special course fee of $10. Spring.

MMJ 3203. 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 MMJ 2013. Word processing skills required. Fall, Spring.

MMJ 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 CMP 3363. Fall, Spring.

MMJ 3373. Introduction to Internet Communications Introductory course in the use of the internet as a communication delivery system. The course addresses Internet history, its development and future applications for communications. Basic computer competency required. Cross-listed as CMP 3373. Fall, Spring.

MMJ 3403. 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 CMP 3353, MMJ 2013, and MMJ 3203, or consent of instructor. Fall, Spring.

MMJ 4010. Advanced Photojournalism Laboratory Laboratory for Advanced Photojournalism. Must be taken concurrently with MMJ 4013. Fall.

MMJ 4013. Advanced Photojournalism Advanced theories and skills associated with digital photojournalism. May require: transportation, digital SLR camera, audio recording device, and external hard drive. Six hours of laboratory work per week. Must be taken concurrently with MMJ 4010. Prerequisite, MMJ 3093. Special course fee, $25.00. Fall.

MMJ 4043. Studies in Newspaper Management Study of business and editorial management of the print media, including newspaper organization, publishing policies and economics, print media technology, circulation and promotional problems. Fall, even.

MMJ 4050. Advanced Reporting Laboratory Laboratory for Advanced Reporting. Must be taken concurrently with MMJ 4053. Spring.

MMJ 4053. Advanced Reporting Instruction and practice in gathering material and reporting stories on public affairs, emphasis on courts, government and data-driven reporting. Must be taken concurrently with MMJ 4050. Prerequisite, C or better in MMJ 2013 or consent of instructor. Spring.

MMJ 4083. Sports, Business and Opinion Writing Techniques of newswriting and information gathering in business and sports reporting. Techniques of opinion writing. Prerequisite, C or better in MMJ 2013 or consent of instructor or department chair. Spring, odd.

MMJ 4123. Media Management and Entrepreneurship Entrepreneurial techniques and skills including business finance, client interaction, and ethics that can be applied across multiple media-based contexts and platforms. Prerequisite, CMAC 3001. Fall, Spring, Summer.

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

MMJ 4340. News Production and Performance Laboratory Laboratory section for News Production and Performance. Must be taken concurrently with MMJ 4343. Fall, Spring.

MMJ 4343. News Production and Performance Experience in producing news programs. Students exercise judgment and make editorial decisions about news content and program continuity. Experience in verbal and nonverbal communication relative to on camera delivery. Must be taken concurrently with MMJ 4340. Prerequisites, MMJ 3403 or consent of instructor. $25 special course fee. Fall, Spring.

MMJ 4373. Internet Communications Internet Communications provides students with a thorough understanding and practice in the use of the Information Superhighway. The course will also look at new opportunities for communications professionals. Prerequisite, Basic computer competency. Fall, Spring, Summer.

MMJ 4552. Photojournalism Practicum and Professional Development Individualized and supervised placement in specific professional settings. Students will work with professionals in the field under faculty supervision. Prerequisite, MMJ 3093. Spring.

MMJ 4573. Sportscasting Theory and practical application of sportscasting for radio and television. Fall.

MMJ 488V. Special Problems in Journalism Prerequisite, approval of department chair and faculty. Fall, Spring, Summer.

DEPARTMENT OF COMMUNICATION

Advertising (AD)

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

AD 3033. Advertising Elements and Execution Principles and practices in creating and critiquing advertising messages across media platforms. Prerequisites, CMAC 2003 and AD 3023. Fall.

AD 3193. Advanced Photography An in-depth examination of the uses of natural and artificial lighting, lenses, cameras, studios, and other elements needed for professional photography in advertising, promotion, portraits, sports and other environments. Emphasis placed on the business of photography. Fall.

AD 3333. Media Advertising and Sales Study of the structure of the media advertising industry, with emphasis on media selection and planning, as well as the basic methods of selling. Sales affiliation project required. Fall, Summer.

AD 4003. Account Planning and Management This is an advanced course in strategic media and data analysis and the management of client/agency relationships. Spring.

AD 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, AD 3033, MMJ 3363, and PRAD 3143. Spring.

Communication Studies (COMS)

COMS 1203. Oral Communication The theory and practice of communication in interpersonal, small groups, and public speaking contexts, emphasizing proficiency in message organization, delivery, and critical thinking. Fall, Spring, Summer. (ACTS#: SPCH 1003)

COMS 1211. Intercollegiate Debate Study and practice of intercollegiate debate. May be repeated for credit. Demand.

COMS 2203. Introduction to Human Communication An introduction to and an overview of communication, including concepts and applications. Prerequisite, COMS 1203. Demand.

COMS 2313. Communication Theory Study of foundational and current theories of communication and applications of these theories in communication contexts. Prerequisite, COMS 1203. Spring.

COMS 2243. Principles of Argumentation Principles of logical reasoning used in advocacy, analysis, use of evidence, inductive and deductive reasoning. Spring, even.

COMS 2253. Introduction to Health Communication Communication in healthcare settings. Major topics include patient provider interaction, information dissemination, cultural concerns, ethical issues, and social support. Fall.

COMS 2373. Introduction to Interpersonal Communication A study of interpersonal communication. Prerequisite, COMS 1203. Spring.

COMS 3203. Business and Professional Communication Communication needs of people in business and professional settings. Fall, Spring.

COMS 3211. Intercollegiate Debate Study and practice of intercollegiate debate. May be repeated for credit. Demand.

COMS 3243. Principles of Persuasion Theory and practice of persuasion as an instrument in motivating human conduct. Fall.

COMS 3253. Principles of Listening Principles of listening in the communication process, emphasis on listening improvement. Fall, even.

COMS 3363. Communication Research Methods Principles of listening in the communication process, emphasis on listening improvement. Fall, even.

COMS 3373. Gender Communication Study of the interrelationship between communication and gender in various contexts. Spring, odd.

COMS 3433. Communication Criticism Provides critical approaches from the humanistic condition engaging media, public discourse, and interpersonal communication. Prerequisites, COMS 1203, or PHIL 1503 or PHIL 1103. Summer.

COMS 4203. Small Group Communication Group and conference techniques for classroom, business, and professional situations. Spring, Summer.

COMS 4243. Interpersonal Communication Emphasis on increasing students capacity for openness, sensitivity, and objective appraisal. Fall, Summer.

COMS 4253. Intercultural Communication Identification of barriers and breakdowns to communication among cultures. Spring.

COMS 4263. Organizational Communication Dynamics and theories of communication within an organization. Spring, even.

COMS 431V. Special Problems Prerequisite, permission of instructor. May be repeated twice with different topics. Demand.

COMS 4323. Communication in Personal Relationships The course covers interpersonal communication in the context of personal relationships, such as romantic relationships, friendships, professional relationships, and family relationships. Fall, odd.

COMS 4373. Conflict Resolution Conflict as a communication variable created through interpersonal interaction in dyads, small groups, families, and organizations. Dual listed SCOM 5373. Summer.

COMS 4383. Computer Mediated Communication This course considers how identities, relationships and communities are created and influenced by our use of computers and the internet. We will gain understanding of these processes by engaging new media scholarship and activities involving different forms of new media. Dual listed as SCOM 5383. Prerequisite, COMS 1203. Spring.

COMS 4403. Seminar in Health Communication Study of the major cultural, interpersonal, and public communication issues affecting health communication. Spring, odd.

COMS 4443. Leadership and Communication Leadership and communication in organizations and society.

COMS 4423. Narratives in Health and Healing Explores the social construction of health, illness, and healing through the study narrative. Dual listed as SCOM 5423. Spring.

Public Relations (PR)

PR 3003. Principles of Public Relations Nature and theoretical foundation of public relations, its role in society, practitioners and dynamics of the process. Fall, Spring, Summer.

PR 3013. Public Relations Tools and Techniques Analysis and application of public relations tools and techniques with an emphasis on public relations writing, specialized publications, and strategy for working with corporate and noncorporate organizations. Prerequisite, CMAC 2003, MMJ 2013, and PR 3003. Fall, Spring.

PR 4013. Public Relations Practicum and Professional Development Advanced PR course requiring application of skills in supervised work with various businesses, institutions, organizations and social agencies. Student will work a minimum of 10 hours per week outside the classroom with assigned workplace mentor. Consent of instructor required. Fall, Spring.

PR 4023. Public Opinion, Propaganda and the Mass Media Survey of public opinion formation and change, with special attention to the role of the mass media in the creation and use of public opinion and propaganda. Fall.

PR 4033. Public Relations Case Studies and Campaigns Study of recent public relations cases and campaigns involving business, industry, institutions, and government. Students create a comprehensive public relations campaign for a given client. Prerequisites, MMJ 3363, PR 3013, and PRAD 3143. Spring.

PR 4113. Integrated Marketing Communications Focuses on the strategic integration of various channels and methods of communications for the purpose of delivering key messages to diverse target audiences in order to elicit specific responses, create a dialogue and engender relationship building. Prerequisite, AD 3023, or PR 3003, or MKTG 3013. Fall, Spring.

PR 4603. Crisis Communication An investigation of communications during crises, focusing on public relations, advertising and other persuasive efforts by institutions, corporations, movement leaders, and citizens to describe, persuade and shape human interactions with their environment during a crisis. Fall, Spring.

PR 4633. Trending Topics Exploration of current topics and issues in public relations and advertising.

Strategic Communication (PRAD)

PRAD 3013. Promotional Writing for Electronic and Digital Media Methods and techniques of writing non-news radio and television scripts and web content. Emphasis on commercials and program continuity, promotional announcements, public service announcements. Some attention to teleplay, screenplay and corporate video techniques.

PRAD 3553. Strategic Visual Communication An advanced course focusing on the theoretical, contextual and practical natures of persuasive images in the context of strategic communication. Prerequisite, CMAC 2053. Fall, Spring.

PRAD 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, CMAC 2003 and either PR 3003 or AD 3023. Fall, Spring.

PRAD 4213. Social Media in Strategic Communications This course examines concepts and applications of social media within mass communications, news, advertising, and public relations industries. We will explore and apply social media tools, integrating them into an organization's overall communication strategy. Spring.

COLLEGE OF NURSING AND HEALTH PROFESSIONS

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

DEPARTMENT OF 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, BIO 2201 and BIO 2203. Fall, Spring.

CD 2203. Phonetics Emphasis given to analysis of the formation and production of spoken English. Training in the use of the International Phonetic Alphabet. Fall, Spring.

CD 2653. Introduction to Communication Disorders A survey of the professions of speech pathology and audiology. Includes an overview of normal speech and language development, types of communication disorders, their typical etiologies, and basic assessment and intervention strategies. 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 This course examines the aging process and its impact on communication. Normal and disordered aspects of speech and hearing resulting from aging will be addressed. Emphasis will be on assessment, intervention, and prevention of age related communication disorders. Summer.

CD 3303. Normal Language Development Normal development of the oral communication process emphasizing phonological and syntactical development of children. Spring.

CD 3553. Clinical Observations in Communication Disorders Provides supervised observation experiences of assessment and intervention strategies used by speech-language pathologists to gain an understanding of the basic principles of speech, language, and hearing therapy and diagnostic evaluations, and observational techniques. Spring.

CD 3402. Introduction to Manual Communication An introductory course in American Sign Language and signing Exact English. Emphasis on acquisition of vocabulary and development of receptive language skills. Fall, Spring.

CD 3503. Audiology A consideration of the causes of hearing loss, with practical experiences in diagnostic audiometric procedures. Identification of hearing problems, methods of speech and language training, and methods of teaching speech reading discussed and demonstrated. Admission to the Communication Disorders Program required. Prerequisite, CD 3003. Fall.

CD 3653. Clinical Interactions in Communication Disorders The purpose of this course is to provide students with an understanding of the counseling process related to the delivery of services in communication disorders. Summer.

CD 3703. Clinical Management Techniques in Communication Disorders This course provides students with knowledge regarding principles and procedures used in the management of individuals with communication disorders including the identification of target behaviors, target measurement and reinforcement practices to effect change in behavior. Registration restricted to Communication Disorders majors. Spring.

CD 3803. Service Delivery in Communication Disorders An introduction to speech language programs, their organization and administration. Fifteen hours of clinical observation required. Admission to the Communication Disorders program required. Fall.

CD 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. Dual-listed as CD 5103. Spring.

CD 4203. Organic Speech Disorders This course examines the characteristics of a number of organic disabilities that impact human communication. Included in this course are the primary etiologies of the disability, the salient symptoms of the disability, the real or potential impact of the disability on the development, use, and maintenance of communication, and the impact of the resulting communication disorders on the client's 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 3303 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 4703. Articulation and Phonological Disorders Principles and procedures for assessment, treatment, and facilitative techniques in disorders of articulation and phonology affecting various ages and cultures. Admission to the Communication Disorders program required. Prerequisite, CD 2203. Dual-listed with CD 5703. Fall.

CD 4752. Clinical Practice I Students will provide direct clinical services, gain practice in critical thinking, team-building, assessment, report writing, development of treatment plans, session plans and SOAP notes. 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 COMS 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. Prerequisites, 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.

CLS 2524. Clinical Practicum II Allows the students to become proficient in the areas of hematology and urinalysis, utilizing the highly sophisticated equipment located in these disciplines. Students will become members of the health care team under the direction of the clinical staff. Prerequisites, CLS 1511, CLS 1512, CLS 1521, CLS 1531, CLS 2521, CLS 2523. Fall, Spring, Summer.

CLS 2531. Medical Microbiology I Laboratory Performance of laboratory procedures necessary to function in the microbiology section of a clinical laboratory. Prerequisite, BIO 2101 and BIO 2103. Corequisite, CLS 2533. Fall.

CLS 2533. Medical Microbiology I Study of pathology, biochemistry, and identification of organisms causing infectious diseases in humans. Includes collection and processing of specimens. Prerequisite, BIO 2103 and BIO 2101. Corequisite, CLS 2531. Fall.

CLS 2541. Clinical Chemistry I Laboratory Laboratory methods and techniques for the analysis of body fluids including routine assessment of body metabolism, renal function, liver function, electrolytes and acid and base balance, enzymes, and other analytes. Corequisite, CLS 2543. Pre or corequisite, CLS 1511, CLS 1512, CHEM 1013, CHEM 1011. Spring.

CLS 2543. Clinical Chemistry I Analysis of body fluids with correlation to both health and disease. Theoretical concepts include testing for body metabolism, renal function, liver function, electrolytes, acid and base balance, enzymes, and other routine assessment. Corequisite, CLS 2541. Pre or corequisites, CLS 1511, CLS 1512, CHEM 1013, CHEM 1011. Spring.

CLS 2551. Hematology Disorders for the Clinical Laboratory Technician Discussion of the basic principles of hematologic disorders, causes, laboratory results, and treatment. Prerequisites, CLS 2523 and CLS 2521. Spring.

CLS 2561. 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. Fall.

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. Fall.

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. Spring.

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. Spring.

CLS 3122. Research Concepts for the Clinical Laboratory Scientist To introduce the CLS student to research process and develop problem solving skills. To provide clinical experiential opportunities to critically evaluate clinical laboratory literature and apply this knowledge to the clinical laboratory setting. This course is designed specifically for the CLS major. Prerequisites, Junior status and CLS 3522. Spring.

CLS 3153. Clinical Biochemistry A study of the biochemical principles that make up the chemical and molecular aspects of the clinical chemistry laboratory. Case studies will apply biochemical principles involved in day to day practices and how they work in disease processes. Prerequisite, CHEM 3103 and CHEM 3101. Spring.

CLS 3221. Hematology II Laboratory Performance of advanced laboratory procedures, recognition of cells and lab values related to hematology disorders, development of cases related to specified hematology disorders. Prerequisites, CLS 2523 and CLS 2521. Corequisite, CLS 3223. Fall.

CLS 3223. Hematology II In depth discussion of hematologic disorders, causes, laboratory results, and treatment. Prerequisites, CLS 2521 and CLS 2523. Corequisite, CLS 3521. Fall.

CLS 3343. Principles of Diseases for the Clinical Laboratory Sciences Introduction to disease processes in the major systems of the body, with practical applications for clinical laboratory personnel. Enrollment restricted to CLS, BS students. Prerequisite, Junior status. Fall.

CLS 3511. Medical Parasitology Laboratory Performance of laboratory procedures used in the recovery and identification of parasites from tissues, exudates, and body fluids. Corequisite, CLS 3512. Summer.

CLS 3512. Medical Parasitology Discussion of acquisition, pathogenesis, and epidemiology of parasitic infections, as well as, the diagnosis of parasitic infections based 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 3522. Clinical Laboratory Management Introduction to supervisory aspects of fiscal management, law, quality assurance, planning, organization, and communications as applicable to clinical laboratory medicine. Prerequisites, Permission of the CLS program director. Admission to CLS, BS Program, completion of a CLT or MLT AAS degree, or completion of 36 credit hours in the CLS program to include at least one clinical practicum. Fall.

CLS 3524. Clinical Practicum IV Enhances the learning experiences in serology and blood bank techniques. Students will become members of the health care team under the direction of the clinical staff. Prerequisites, CLS 2561, CLS 2563, CLS 2571, CLS 2573. Fall, Spring, Summer.

CLS 4013. Molecular Diagnostics This course will identify important aspects of molecular based hematology, oncology testing, microbiology testing, and pharmacogenetics, as well as addressing proteomics and genomics in the clinical laboratory environment. Permission of instructor required. Prerequisites, CLS 2571, CLS 2573, CLS 2531, CLS 2533, CHEM 3101, and CHEM 3103. Spring.

CLS 410V. Special Problems in Clinical Laboratory Science Specific area with the topic and mode of inquiry agreed upon by the student and instructor. Registration may be repeated with various topics. Registration must be approved by the program director. Fall, Spring.

CLS 4111. Clinical 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 1301, CHEM 1303, 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.

CLS 4174. Clinical Practicum I Clinical laboratory experience in chemistry and special chemistry. A special project is required. Enrollment restricted to CLS majors. Instructor permission is required. Prerequisite, CLS 2541 and CLS 2543. Fall, Spring, Summer.

CLS 4184. Clinical Practicum II Clinical laboratory experience in hematology and coagulation and urinalysis. Prerequisite, admission to clinical program. Enrollment restricted to CLS majors. Instructor permission is required. Prerequisites, CLS 2521, CLS 2523. Fall, Spring, Summer.

CLS 4194. Clinical Practicum III Clinical laboratory experience in microbiology and parasitology. A special project is required. Enrollment restricted to CLS majors. Permission of Instructor is required. Prerequisite, CLS 2531 and CLS 2533. Fall, Spring, Summer.

CLS 4204. Clinical Practicum IV Clinical laboratory experience in immunohematology and serology. A special project is required. Enrollment restricted to CLS majors. Permission of instructor required. Prerequisites, CLS 2571, CLS 2573, CLS 2561, and CLS 2563. Completion of CLS 4331 and CLS 4333 is strongly recommended. Fall, Spring, Summer.

CLS 4211. Clinical Laboratory Educational Roles This course prepares the student for the educational roles that will be assumed in the clinical laboratory or other settings. Prerequisite, Senior standing in the BS CLS Program. Fall.

CLS 4212. Interpreting Laboratory Data This course is an overview that explains why laboratory tests are ordered and how interpretation of laboratory data is used in the care and welfare of patients. Not open to CLS or CLT students. Spring and Summer.

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 content designed for critical thinking in the development, application, analysis, integration, synthesis, and evaluation of concepts and theories in the practice of blood banking and component therapy. Prerequisites: CLS 2521, CLS 2523, CLS 2561, CLS 2563, CLS 2571, CLS 2573. Corequisite: CLS 4333. Spring.

CLS 4333. Immunohematology II Discussion of advanced theory related to all facets of blood banking. Emphasis on interpreting cases and identifying appropriate problem solving protocols. Prerequisites, CLS 2561, CLS 2563. Corequisite, CLS 4331. Spring.

CLS 4441. Clinical issues and Topics in Medical Microbiology II WEB-based Case Study approach addressing advanced level content of medically important microorganisms. Designed to enhance critical thinking skills through the interpretation, correlation, analysis and differential diagnosis of infectious disease case-oriented material in clinical presentations. Differential diagnoses to be based on the evaluation of patient history, clinical manifestations, and laboratory data. Prerequisites. CLS 2533 and CLS 2531. Corequisite. CLS 4443. Spring.

CLS 4443. Medical Microbiology II Discussion of mechanisms of pathogenicity, quality management, nosocomial infections, specimen collection and processing, automation and instrumentation, molecular techniques, and medical microbiology in patient care. Covers the theoretical elements of related laboratory procedures. Prerequisites, CLS 2533 and CLS 2531. Corequisite, CLS 4441. Spring.

DISASTER PREPAREDNESS AND EMERGENCY MANAGEMENT PROGRAM

Disaster Preparedness & Emergency Management (DPEM)

DPEM 1101. Introduction to Incident Management An introduction to the Incident Command System (ICS) and the National Incident Management System (NIMS), the nationwide template for all government, private-sector, and nongovernmental organizations. Describes the history, features, principles, ICS organizational structure and the relationship between ICS and NIMS. Fall, Spring, Summer.

DPEM 1111. Introduction to Resource Management Focuses on resources for personnel who are likely to assume a supervisory position within the Incident Command System (ICS) is provided. This course is designed to enable personnel to operate efficiently during an incident or event within the ICS. Fall, Spring, Summer.

DPEM 1121. Introduction to CBRNE Provides instruction on prevention and deterrence, chemical and biological agents, radiological materials, explosives, and the Emergency Response Guidebook. Fall, Spring, Summer.

DPEM 1503. Introduction to Community Preparedness Introduction to clinical and public health concepts for the management of disasters and public health emergencies along with instruction in preparation for pandemics. Fall, Spring, Summer.

DPEM 1703. Introduction to Community Response Provides information about disaster preparedness and weapons of mass destruction. Training in basic disaster response skills, such as fire safety, light search and rescue, and disaster medical operations is included. Fall, Spring, Summer.

DPEM 2213. Principles of HAZMAT Response Content focuses on immediate response actions associated with life safety, preservation of property, and restoration of an incident site in addition to information relating to the identification of CBRNE hazards. Culminates with performance of defensive-level tasks in a toxic environment. Fall, Spring, Summer.

DPEM 2223. Hazardous Materials Containment The goal of this course is to enable students to identify, detect, and categorize chemical, biological, and radiological materials and explosive devices, as well as determine the appropriate equipment and decontamination techniques to use when responding to CBRNE incidents. Fall, Spring, Summer.

DPEM 2233. Principles of Healthcare Emergency Management Foundation knowledge in healthcare emergency management to include standards, regulations, organizations, government agencies and stakeholders; disaster planning; staffing and personnel; Personal Protection Equipment and decontamination; evacuation, isolation, and quarantine; ethical issues; financial issues; and public affairs. Fall, Spring, Summer.

DPEM 2243. CBRNE Incident Practicum Provides emergency responders and their supervisors with CBRNE-specific response skills, enabling them to safely respond to a suspected incident at a performance defensive level. Fall, Spring, Summer.

DPEM 2303. Environmental Health Training in Emergency Response The course supplements the knowledge and experience of the student with a basic understanding of disaster management and the application of environmental health to disaster management and integrates their professional skills into a local-level disaster response, recovery, mitigation and preparedness. Fall, Spring, Summer.

DPEM 2313. Pandemic Planning and Preparedness The Pandemic Planning and Preparedness course promotes knowledge and skills to effectively plan and prepare for a pandemic, culminating in a practical exercise. Steps for developing an effective planning and preparedness program and development of a pandemic annex are included. Fall, Spring, Summer.

DPEM 2323. Respiratory Protection Core information to develop, implement, administer, and sustain a respiratory protection program as defined in Code of Federal Regulations is presented. This course is at the site of a Center for Domestic Preparedness (CDP) hosting jurisdiction or department. Fall, Spring, Summer.

DPEM 2333. HAZMAT Evidence Collection for CBRNE Incident Enables HAZMAT responders to identify, detect, and categorize chemical, biological, and radiological materials and explosive devices, as well as determine the appropriate equipment and decontamination techniques to use when responding to CBRNE incidents. Fall, Spring, Summer.

DPEM 2341. Clinician Actions for CBRNE Incidents This course provides students, future Emergency Medical System responders, with CBRNE-specific response skills, enabling them to safely respond to a suspected incident and provide on-scene care to victims. Fall, Spring, Summer.

DPEM 2343. Emergency Responder HAZMAT Technician for CBRNE Provides HAZMAT responders with Chemical, Biological, Radiological, Nuclear, and Explosive -specific response skills, enabling effective response to a suspected incident culminating with performance of these offensive-level tasks in a simulated HAZMAT environment. Fall, Spring, Summer.

DPEM 2351. Responder Actions for CBRNE Incidents Provides students, future emergency responders and supervisors, with (CBRNE)-specific response skills, enabling them to safely respond to a suspected CBRNE incident at a performance defensive level. Fall, Spring, Summer.

DPEM 2353. Global Perspectives in Disaster Preparedness A focus on global disaster preparedness around the world will be identified including economic, health, political, psychological, cultural and religious impact of current and major historical disasters. Cross listed as NRS 2353. Fall, Spring, Summer.

DPEM 2363. Fundamentals of CBRNE Crime Scene Management Knowledge of proper implementation of procedures and guidelines for crime scene management when responding to a Chemical, Biological, Radiologic, Nuclear and/or Explosive incident. Fall, Spring, Summer.

DPEM 2371. Protective Measures for CBRNE Incidents Provides students, future law enforcement responders, with the ability to train in CBRNE-specific skills, reinforcing their ability to identify suspicious activity that could lead to a CBRNE event and with the knowledge to respond to a CBRNE event. Fall, Spring, Summer.

DPEM 2381. Law Enforcement Response Actions for CBRNE Incidents Provides students, law enforcement responders, with CBRNE-specific response skills, enabling them to safely respond to a suspected Weapons of Mass Destruction (WMD) incident at a performance-defensive level. Fall, Spring, Summer.

DPEM 2391. Initial Response to Suicide Bomb Attacks Provides students, front line Law Enforcement Officers, with the skills and knowledge to effectively interdict and respond to an imminent suicide bombing attack (person-borne or vehicle-borne) or a non-suicide attack involving a vehicle-borne device. Fall, Spring, Summer.

DPEM 2402. Civil Disorder in Disasters and Emergencies The course provides students from state and local law enforcement agencies with the knowledge and skills necessary to prepare for and successfully mitigate threat incidents involving civil disorder.

DPEM 2412. Command and Planning for Civil Disorder in Disasters and Emergencies Provides students, emergency responders, with response skills that enable them to safely respond to an incident at the management level culminating in a tabletop exercise. Fall, Spring, Summer.

DPEM 2422. Extrication Tactics for Civil Disorder in Disasters and Emergencies Provides students with the ability to identify protester devices; discuss legal issues related extrication from protester devices; compare the roles and responsibilities of the extrication team; demonstrate safe operation of tools and demonstrate methods of extricating individuals. Fall, Spring, Summer.

DPEM 2433. Basic Sign Language in DPEM Equips those responding to disasters and other emergencies with communication methods, basic emergency sign language, common etiquette and special considerations for the Deaf and hearing-impaired. Fall, Spring, Summer.

DPEM 3053. Expanding Incident Management Advanced application of the Incident Command System (ICS) to prepare students to assume a supervisory role in expanding incidents as required by the National Incident Management System designated by the National Response Framework. Prerequisites, DPEM 1101, DPEM 1111 and DPEM 1121. Fall, Spring, Summer.

DPEM 3503. Principles of Disaster Preparedness and Emergency Management 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.

DPEM 3513. Teaching Incident Management Teaches presentation techniques, conducting practical application, and preparing and maintaining lesson plans appropriate to Incident Command System (ICS) requirements. Includes instructional strategies for ICS 100, 200, 300, 400, 700 & 800. Prerequisites, DPEM 1101, DPEM 1201, DPEM 3053 and DPEM 4053. Fall, Spring, Summer.

DPEM 3523. Teaching Officer CBRNE Protection Develops knowledge and skills to create and deliver courses designed to implement strategies to protect law enforcement officers from exposure to Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) to law enforcement. Fall, Spring, Summer.

DPEM 3533. Teaching CBRNE Awareness Students learn how to provide instruction to the adult learning audience in Recognition, Avoidance, Isolation and Notification (RAIN) techniques when confronted with chemical agents, biological agents, radiological materials and explosive devices. Fall, Spring, Summer.

DPEM 3543. Teaching Emergency Response Provides students with the knowledge and skills to create and deliver Chemical, Biological, Radiological, Nuclear and/or Explosive instruction to the adult learning audience. Results in emergency responders who can deliver lectures and hands-on training to other emergency responders. Fall, Spring, Summer.

DPEM 3552. Business Continuity in DPEM Business continuity strategies during disasters and emergencies will be explored utilizing an all hazards approach. Selected business continuity plans in both private and public sectors will be analyzed in relation to simulated or historical disasters. Fall, Spring, Summer.

DPEM 3553. Ethics and the Law in DPEM Examines law and ethical dilemmas in disaster preparedness and emergency management. Includes human rights and injustices associated as well as codes of ethics in emergency management and public health emergency laws. Current and historical disasters will be analyzed. Fall, Spring.

DPEM 3562. Principles of Administration in Emergency Management Examines laws and regulations relating to emergency management programs in the private and public sector. Ethical dilemmas and professional accountability will be explored utilizing case studies. Community resilience and recovery in times of disaster will be emphasized. Fall, Spring, Summer.

DPEM 3563. Information Technology in DPEM Social media, visual, mapping, disaster management systems, software and geographic information systems will be explored as a resource for disaster preparedness and emergency management. Overviews of each system will be provided followed by hands-on experiences with the various technology systems. Fall, Spring, Summer.

DPEM 3572. Politics of Disaster Analyzes the effects of the national response framework and presidential directives in disaster preparedness and emergency management. Compares and contrast the role of society, science, and politics in emergency management. Explores the intergovernmental relationships and the globalization of disasters. Fall, Spring, Summer.

DPEM 3583. Principles of Communication in DPEM Analyze procedures and methods to develop and disseminate mass communications during times of disaster. Identify the dynamics of communications during disasters. Explore the laws and regulations pertaining to disaster communications. Recognize and utilize social media resources in disaster response. Fall, Spring, Summer.

DPEM 3592. Exercise Design in DPEM Explore types of exercises applicable to emergency management programs. Plan, develop, and conduct exercises to test and evaluate emergency response plans. Analyze the results of disaster exercises in an after action review meeting the Homeland Security Exercise and Evaluation protocols. Fall, Spring, Summer.

DPEM 3613. Radiological Emergencies Provides hands-on practicum, team exercises and practical skills for effective response to a radiological incident. Topics include Radiological Concepts, Radiological Response Team Operations, Commercial Nuclear Power Facilities, Plume Modeling, Radiological Instrumentation, and Personal Protective Equipment and Decontamination. Fall, Spring, Summer.

DPEM 4053. Complex Incident Management Provides training and resources for students who require advanced application of the Incident Command system (ICS) in an Area Command or Multi-agency Coordination Entity. Students may perform in a management capacity in an Area Command or Multi-agency Coordination Entity. Prerequisites, DPEM 1101, DPEM 1111, DPEM 1121 and DPEM 3053. Fall, Spring, Summer.

DPEM 4123. Incident Command for All Hazards Provides students with information to successfully implement proper procedures and guidelines for crime scene management when responding to a Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) incident. The course culminates with incident management actions applied during a CBRNE scenario incident. Prerequisites, DPEM 1101, DPEM 1111 and DPEM 1121. Fall, Spring, Summer.

DPEM 4133. All Hazards Command and Response Practicum experience to assume command and response for all hazards. Encompasses Weapons of Mass Destruction (WMD)-related topics and hands-on training on pre-incident planning, response development, domestic and international terrorism, CBRNE agents and materials associated with WMD. Prerequisites, DPEM 1101, DPEM 1121. Fall, Spring, Summer.

DPEM 4501. Teaching MCI Hospital Response Applies previous knowledge and experience to relate the application of environmental health to disaster management. Professional skills are integrated into a scenario including local-level disaster response, recovery, mitigation and preparedness. Prerequisite, DPEM 4733. Fall, Spring, Summer.

DPEM 4513. Physical Care of CBRNE Injuries Elucidates recognition, treatment and containment of Category A biological agents, chemical agents and radiologic 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. Cross-listed as NRS 4513. Fall even.

DPEM 4523. Risk Identification and Prevention Identifies actions communities, institutions and governments must take to identify the risk and prevent injury from man made and natural disasters, including acts of terrorism. Course topics include risk assessment, mitigation, surveillance, disaster epidemiology, emerging infections and socio political implications. Cross-listed as NRS 4523. Fall, odd.

DPEM 4533. Disaster and Mental Health Identifies evolving evidence related to the impact of disaster and mass violence on mental health. Considers natural and man-made 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. Cross-listed as NRS 4533. Prerequisite, Junior standing. Spring, even.

DPEM 4553. Capstone in Homeland Security & Disaster Preparedness 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 3503. Permission of instructor required. Cross listed as POSC 4553, NRS 4553. Spring.

DPEM 4563. NGO Agencies in DPEM Examines non-government agency response to disasters and other emergencies. Cooperation and collaboration among the agencies will be analyzed. Pre and post-disaster planning as well as acquisition and mobilization of resources will be emphasized. Fall, Spring.

DPEM 4573. Teaching Radiological Emergency A comprehensive curriculum designed to introduce students to adult learning characteristics, adult learning styles and preferences, instructional methodologies, and cultural diversity in the training environment. Provides capabilities and knowledge to effectively plan, administer, teach, conduct, and evaluate radiological training courses. Prerequisite, DPEM 3613. Fall, Spring, Summer.

DPEM 4713. Advanced Information Officer To prepare students to disseminate credible information to the media and the public during a public health emergency and to manage a Joint Information Center during emergencies. News conference exercises prepare students for a culminating practical experience. Fall, Spring, Summer.

DPEM 4723. Healthcare Leadership Focuses on critical decision making, leadership and management skills. Content emphasizes the effectiveness and efficiency of healthcare emergency preparedness while maintaining the overall safety of responders and victims and/or patients. Students strive to make realistic decisions during a facility-based exercise. Fall, Spring, Summer.

DPEM 4733. Hospital Emergency Response Prepares students to utilize the Hospital Incident Command System (HICS). Integrates the community emergency response network with the operation of an Emergency Treatment Area (ETA). Includes hospital personnel as first responders during a Mass Casualty Incident involving patient contamination. Fall, Spring, Summer.

DPEM 4743. Medical Operations for CBRNE Prepares students with CBRNE-specific response skills to participate as members of the emergency response community and safely evaluate and respond to a suspected incident. The course culminates with a practical exercise involving skills learned during the course. Fall, Spring, Summer.

DPEM 4753. Hazard Assessment and Response Develops skills to evaluate and respond to incidents through incident planning,conducting decontamination, collecting evidence using the FBI's Crime Scene Search Guidelines, using survey and monitoring equipment to monitor for contamination, and identifying illicit labs and improvised explosive devices. Fall, Spring, Summer.

HEALTH STUDIES PROGRAM

Health Professions (HP)

HP 2013. Medical Terminology Basic language related to medical science and the health professions, word analysis, construction, spelling, definitions. Special course fees may apply. Fall, Spring.

HP 2112. Introduction to the United States Healthcare System Fundamental structures and operations of the United States health care system and its differences from other established health care models across the world. Provides an overview of health care services, delivery, financing, trends and consequences. Spring.

HP 3003. General Gross Anatomy The regional topographic study of human gross anatomy using lecture, laboratory, discussion, and prosected cadavers. Emphasis is placed on surface anatomy, musculoskeletal and neuromuscular systems. Clinical correlations are highlighted. Lecture 2 hours per week. Laboratory 2 hours per week. Enrollment will be limited. Enrollment preference will be given to students in the Sports Medicine and Athletic Training Program. Additional enrollment will be at the discretion of the instructor. Special course fees may apply. Prerequisites, BIO 2203 and BIO 2201, or BIO 3223 and BIO 3221. Fall, Spring.

HP 3123. Introduction to Disease Basic principles of disease processes, covering essential structural and functional characteristics of common diseases. Attention will be given to individual body systems and the diseases, disturbances, and abnormalities affecting them. Fall.

HP 3233. Preventive Health Teaching and "coaching" patients toward managing, mitigating, and/or preventing health dysfunctions encountered by citizens of the Delta region. Examines the impact health promotion and preventive practices have on the quality of life across the life span. Fall.

HP 3353. Public Health: Principles and Practice Overview of the unique features of public health in the rapidly changing US and global health care delivery system from a population, global health perspective. Fall.

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 3453. Healthcare Navigation The patient navigation model includes the timely movement of an individual across the entire health care continuum from prevention, detection, diagnosis, treatment, and supportive, to end-of-life care. Spring.

HP 3463. Introduction to Pharmaceuticals An introduction to pharmaceuticals in modern heath care. Issues related to regulation, drug development, drug safety (including age related issues, polypharmacy, and abuse) and quality control are included. Spring.

HP 3673. Critical Issues in Health Examination of critical health and health care issues from clinical, legislative, and community perspectives. Spring.

HP 3783. Issues in Mental Health Examination of a variety of mental health conditions and behaviors, including many of the help-seeking behaviors seen currently in health care settings, including major public health threats to our society will be discussed. Spring.

HP 4103. Patient Education in Healthcare Teaching strategies and methodologies that compare and contrast teacher-centered versus patient-centered approaches within the context of healthcare. 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 4213. Chronic Illness An introduction to the scope and nature of living with chronic disease or illness with a focus on identifying chronic illnesses that affect not only the individual, but families and communities. Fall.

HP 4323. Patient Safety An introduction to the scope and nature of most adverse events related to patient safety, with a focus and focuses on identification and prevention of patient safety issues. Fall.

HP 4433. Healthcare Advocacy Introduction to the role of the healthcare advocate, with a focus Focuses on information that assists patients and families in the increasing complex and dynamic health care system. Fall.

HP 4543. Healthcare Service Delivery A global focus on value-based healthcare delivery and the World Health Organization. Approaches to principles related to health care delivery in practice that are effective, safe, and quality based. 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 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. Prerequisite, formal acceptance in to the professional program. 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, formal acceptance in to the professional program. Fall, Spring, Summer.

RS 3733. Geriatric Considerations in Radiology Psychosocial, emotional, mental and psychiatric issues encountered in the aging process with attention to normal processes of aging, common interventions, and treatments. Fall, 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. Prerequisite, formal acceptance in to the professional program. Fall.

RS 3843. Advance Clinical Practice Focus is on current healthcare delivery environment including patient assessment, monitoring, infection control, and management. It includes working with multicultural patients, managing problem patients, and patient education. Prerequisite, Admission to the Imaging Specialist program. Spring.

RS 4183. Leadership Practicum Experiential learning practicum with three radiologic facilities that allows students to participate with department management the skills, concepts and theories studied in RS 4343. Prerequisite, formal acceptance in to the professional program. 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. Prerequisite, formal acceptance in to the professional program. 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, formal acceptance in to the professional program. Fall, Spring.

RS 436V. Independent Study in Radiologic Sciences Guided investigation of an advanced radiologic 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, formal acceptance in to the professional program. Demand.

RS 4423. Cardiovascular-Interventional Procedures and Instrumentation The course will discuss angiography and interventional procedures. The student will be introduced to the specialized equipment required to produce and acquire the images and for monitoring the patient. Patient care procedures, medical and legal implications, and pharmaceutical and contrast agents specific to each examination will be defined. Prerequisite, formal acceptance in to the professional program. 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. Prerequisite, formal acceptance in to the professional program. Spring.

RS 4453. Cardiovascular Interventional Clinical Education The course will provide content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in cardiovascular-interventional radiology. Prerequisites, formal admission to the professional program. Fall, Spring, Summer.

RS 4463. Statistics for Medical Imaging Methods used for data collection and statistical analysis in medical imaging procedures and education with a focus on the applications of data and statistics in reporting of clinical efficiency, image repeat rates, and educational outcomes. Fall, Spring.

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. Prerequisite, formal acceptance in to the professional program. Spring.

RS 4552. Mammography Clinical Education 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. Prerequisite, formal acceptance in to the professional program. 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. Prerequisite, formal acceptance in to the professional program. Fall.

RS 4632. Computed Tomography Procedures Advanced concepts and applications of the various procedures performed and equipment used in the computed tomography suite. Emphasizes the understanding of the equipment and the performance of all procedures. Prerequisite, formal acceptance in to the professional program. Fall, odd.

RS 4643. Computed Tomography Clinical Education The course will provide content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in computed tomography. Prerequisite, formal acceptance in to the professional program. Fall, Spring, Summer.

RS 4822. Psychosocial Factors in Health Care Delivery Focus on psychosocial issues which impact the delivery of healthcare in a medical imaging environment. Prerequisite, formal acceptance in to the professional program. Fall, Spring.

RS 4852. Advanced Radiologic Pathophysiology I This course is an intensive study of the radiographic manifestations of diseases that affect the muscoloskeletal and respiratory systems, excluding neoplasms. Emphasis is on physiologic changes evident in images and differentiating which imaging modalities are most sensitive in detecting these changes. Prerequisite, formal acceptance in to the professional program. Fall, Summer.

RS 4862. Advanced Radiologic Pathophysiology II This course is an intensive study of the radiographic manifestations of neoplasms and diseases that affect vascular systems. Emphasis is on physiologic effects of neoplasma and vascular system diseases and image manifestations of these effects. Prerequisite, formal acceptance in to the professional program. Spring, Summer.

Magnetic Resonance Imaging (RSMR)

RSMR 3853. Advanced MR Pathophysiology I Provides knowledge of patient care and assessment, imagining contraindications, contrast agents, introduction to MRI and MRI safety, cultural diversity, infection control, interpersonal communication, and body mechanics. Prerequisite, formal acceptance in to the professional program. Fall.

RSMR 3863. Advanced MR Pathophysiology II Common pathologies found in magnetic resonance imaging (MRI) of the thorax, abdomen, pelvis, and cardiovascular systems. Prerequisite, formal acceptance in to the professional program. Spring.

RSMR 4702. Introduction to MR Imaging Provides knowledge of patient care and assessment, imagining contraindications, contrast agents, introduction to MRI and MRI safety, cultural diversity, infection control, interpersonal communication, and body mechanics. Prerequisite, formal acceptance in to the professional program. Fall.

RSMR 4703. MRI Instrumentation A study of the equipment used tin production of the MR signal and image, specific coil designs, quality assurance measures, and equipment safety. Prerequisite, formal acceptance in to the professional program. Fall.

RSMR 4712. Imaging Information Management Explains the functioning of computers and computer concepts in medical imaging. Topics covered are HIPAA, PACS, and RIS in MRI and the imaging department. Prerequisite, formal acceptance in to the professional program. Spring.

RSMR 4723. MRI Procedures I Provides knowledge of anatomy, pathology, scanning protocols, contrast administration, and contraindications for magnetic resonance imaging of the head, spinal column, and musculoskeletal system. Prerequisite, formal acceptance in to the professional 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, formal acceptance in to the professional 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, formal acceptance in to the professional program. 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, formal acceptance in to the professional program. 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, formal acceptance in to the professional program. 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, formal acceptance in to the professional program.. 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 Larmour equation, tissue characteristics, and imaging parameters. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. Summer.

RSMR 4813. MRI Physical Principles II Exploration of imagining options, spin echo, fast spin echo, STIR, FLAIR, gradient imagining, and echo planar imaging. Includes a comprehensive analysis of image artifacts. Prerequisite, formal acceptance in to the professional program. 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. Prerequisite, formal acceptance in to the professional program. 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 Radiologic Sciences. Prerequisite, formal acceptance in to the professional program. Summer.

Nuclear Medicine (RSN)

RSN 300V. Nuclear Medicine Program Exchange Clinical Preceptorship to be taken concurrently while enrolled in the nuclear medicine program. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. 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, formal acceptance in to the professional program. 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. Spring.

RSN 4535. Nuclear Medicine Clinical Education III The course will provide advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in nuclear medicine procedures. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. Fall.

RST 4224. Radiation Therapy Principles and Practice II The course will examine and evaluate the management of specific neoplastic disease. Prerequisite, formal acceptance in to the professional program. Spring.

RST 4234. Radiation Therapy Principles and Practice III The course will build on the foundations of the principles of radiation therapy practice from the two previous courses. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. Fall.

RST 4323. Radiation Therapy Physics II The course will review and expand concepts and theories in the Radiation Physics I course. Prerequisite, formal acceptance in to the professional program. Spring.

RST 4333. Applied Radiation Biology This course will present basic concepts and principles of radiation biology. Prerequisite, formal acceptance in to the professional program. Summer.

RST 4413. Radiation Protection, Safety, and Quality Management This course will present principles of radiation protection and safety for the radiation therapist. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. Summer.

Diagnostic Medical Sonography (RSU)

RSU 4101. 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. Spring.

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, formal acceptance in to the professional program. Summer.

RSU 4122, Small Parts Sonography Knowledge of anatomy pathology of small parts including male pelvis, breast, thyroid, and musculoskeletal sonography. Prerequisite, formal acceptance in to the professional program. Summer.

RSU 4132. 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. Fall.

RSU 4322. OBGYN Sonography Laboratory Laboratory scanning of specific anatomy and pathology necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonography. Corequisites, RSU 4613 and 4323. Prerequisite, formal acceptance in to the professional program. Spring.

RSU 4323. Physics and Instrumentation II This course is a continuation of RSU 4213. Advanced theoretical foundations and clinical applications of ultrasound physics and instrumentation, including Doppler principles, performance testing, and bioeffects. Prerequisite, formal acceptance in to the professional program. 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional 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. Prerequisite, formal acceptance in to the professional program. Fall.

RSU 4523. Ultrasound Clinical Education II Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, and ob-gyn sonography. Prerequisite, formal acceptance in to the professional program. Spring.

RSU 4534. Ultrasound Clinical Education III Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, and obstetrics and gynecology sonography. Prerequisite, formal acceptance in to the professional program. Summer.

RSU 4542. Ultrasound Clinical Education IV Advanced level content and clinical practice experiences designed for sequential development application, analysis, integration, synthesis and evaluation of concepts. Prerequisite, formal acceptance in to the professional program. Summer.

RSU 4551. Sonography Clinical Relevancy Advanced application of anatomy and pathology as seen with sonographic examination and case studies will be the focus of this course. Prerequisite, formal acceptance in to the professional program. Fall.

RSU 4552. Ultrasound Clinical Education V Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, ob gyn, and vascular sonography. Prerequisite, formal acceptance in to the professional program. Fall.

RSU 4562. Ultrasound Clinical Education VI Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Prerequisite, formal acceptance in to the professional program. Demand.

RSU 4563. Ultrasound Clinical Education VII Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Prerequisite, formal acceptance in to the professional program. Demand.

RSU 4564. Ultrasound Clinical Education VIII Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Prerequisite, formal acceptance in to the professional program. Demand.

RSU 4613. Obstetric and Gynecologic Sonography Specific anatomic and pathologic information necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonography. Prerequisite, formal acceptance in to the professional program. Fall.

RSU 4622. Obstetric Sonography II Continuation of specific anatomic and pathologic information necessary for the clinical practice of obstetric diagnostic medical sonography. Registration restricted to students who have successfully completed the spring semester in the DMS program. Prerequisite, formal acceptance in to the professional program. Summer.

RSU 4642. Introduction to Cardiovascular Sonography Cardiovascular anatomy, physiology and clinical considerations necessary for practice in the cardiovascular clinical setting. Indications for cardiovascular testing and disease processes are discussed. Prerequisite, formal acceptance in to the professional program. Summer.

RSU 4652. Special Procedures in Sonography Specific anatomic and pathologic information necessary for the clinical practice of special procedures in abdominal, pediatric, and neonatal diagnostic medical sonography. Fall.

RSU 4712. Introduction to Cardiac Sonography Cardiac anatomy, physiology and clinical considerations necessary for practice in the cardiovascular clinical setting. Indications for cardiac testing and disease processes are discussed. Prerequisite, formal acceptance in to the professional program. Spring.

RSU 4723. Cardiac Sonography Continued discussion of cardiac disease processes. Corequisite RSU 4732. Good standing in DMS program required. Summer.

RSU 4732. Competency Sonography Lab I Clinical application knowledge of small parts, abdominal organs and organ systems. Students will participate in directed scanning exercises and simulator scanning to develop the critical thinking skills needed. Corequisite, 4223. Prerequisite, formal acceptance in to the professional program. Fall.

RSU 4742. Cardiac Sonography Lab Provide clinical application knowledge of gynecologic and obstetrical, vascular, or cardiac sonography. Directed scanning exercises and simulator scanning to develop the critical thinking skills. Registration restricted to students who have successfully completed the fall semester of appropriate DMS program. Summer.

RSU 4762. Advanced Vascular Sonography Procedures Clinical application knowledge of advanced vascular sonography procedures, directed scanning exercises and simulator scanning to develop the critical thinking skills needed in practice of vascular sonography. Prerequisite, formal acceptance in to the professional program. Spring.

RSU 4812. Cardiac Conduction and Arrhythmia Provides an understanding of normal and abnormal conduction of electrical impulses in the cardiac system. Prepares students to recognize cardiac rhythms in the clinical setting. Registration restricted by admittance to the DMS program. Spring.

Radiologic Technology (RT)

RT 1003. Making Connections Radiologic 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. Prerequisite, formal acceptance into the professional program. 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. Prerequisite, formal acceptance into the professional program. 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. Prerequisite, formal acceptance into the professional program. 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, formal acceptance into the professional program. Summer.

RT 1121. Basic Radiologic Procedures Laboratory The laboratory associated with Basic Radiologic Procedures. Prerequisite, formal acceptance into the professional program. 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, formal acceptance into the professional program. Fall.

RT 1211. Radiologic Procedures Laboratory The laboratory associated with Radiologic Procedures. Prerequisite, formal acceptance into the professional program. 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, formal acceptance into the professional program. Summer.

RT 1232. Clinical Practicum I Supervised clinical experience in routine radiographic procedures. Students are evaluated with a competency based evaluation system. Prerequisite, formal acceptance into the professional program. Fall.

RT 1303. Advanced Radiologic Procedures Radiographic anatomy and positioning of the vertebral column, bony thorax, skull, facial bones, and sinuses. Includes positioning nomenclature, pathology, and film evaluation. Prerequisite, formal acceptance into the professional program. Spring.

RT 1311. Advanced Radiologic Procedures Laboratory The laboratory associated with Advanced Radiologic Procedure. Prerequisite, formal acceptance into the professional program. 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, formal acceptance into the professional program. 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, formal acceptance into the professional program. 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. Prerequisite, formal acceptance into the professional program. 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, formal acceptance into the professional program. 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, formal acceptance into the professional program. 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, formal acceptance into the professional program. 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. Prerequisite, formal acceptance into the professional program. 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, formal acceptance into the professional program. 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, formal acceptance into the professional program. 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, formal acceptance into the professional program. Fall.

RT 3312. Radiobiology Principles of health physics, radiation protection, and radiobiology. Deals in depth with clinical applications. Prerequisite, formal acceptance into the professional program. Spring.

RT 3332. Radiologic Pharmacology and Drug Administration The concepts and applications of pharmacology and drug administration unique to the radiologic setting. Contrast media types and administration is covered in detail. Prerequisite, formal acceptance into the professional program. Spring.

RT 3333. Clinical Practicum VI Continuation of RT 3223. Includes final competency evaluation. Prerequisite, formal acceptance into the professional program. Spring.

SCHOOL OF NURSING

Nursing (NRS)

NRS 1123. Making Connections Nursing Open to incoming freshmen only, this course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the University as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating nursing as a career choice. Fall, Spring.

NRS 1214. Introduction to Nursing Introduction to the health care system. Focus on theories and concepts in assisting the individuals in maintaining activities of daily living. Prerequisites, PSY 2513, MATH 1023, BIO 2203, BIO 2201, and ENG 1003. Spring.

NRS 1235. Nursing I Theories and concepts necessary for effective assessment of individual and family ability to meet activities of daily living and developmental needs. Child and adult health problems that are usual, expected and have predictable outcomes are studied. Emphasis is placed upon student use of the nursing process in identifying these problems and their resolutions through relevant nursing interventions. Prerequisites, admission to the program or NRS 1214, NRSP 1222, NRS 3392, NRSP 3391 or Corequisites, NRS 1252, NRSP 1243. Fall.

NRS 1252. Role Development I An introduction to the roles of the associate degree nurse as a provider of care, manager of care, and member of the profession. These roles will be explored as they relate to the profession of nursing, legal and ethical issues, principles of teaching and learning, theory of nursing, professional accountability, and current health issues. Corequisites, NRS 1235 and NRSP 1243. Fall.

NRS 1411. Clinical Calculations Provides additional experiences in calculation systems, conversions, and medications given in the clinical setting. Will not count as a nursing elective. Open to all AASN and BSN students, LPNs, RNs or by permission of instructor. This course may be repeated for a maximum of three hours. Fall, Spring.

NRS 2212. Nursing II Mental Health Continued use of the nursing process, with an emphasis on the bio-psycho-social-cultural aspects of individuals and families. Mental health and adult health problems that are usual, expected and have predictable outcomes are studied. Registration restricted to AASN Program. Prerequisites, BIO 2223 and BIO 2221, CIT 1503 or CIS 1043, NRS 2392, NRS 3391, NRS 1235, NRSP 1243, and NRS 1252. Corequisites, NRS 2213, NRSP 2223, and NRS 2251. 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 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, NRSP 2244, NRSP 2272. Prerequisites, BIO 2103, BIO 2101, NRS 1235, NRS 1252, NRS 2212, NRS 2213, NRS 2251, NRSP 1243, NRSP 2223. Fall.

NRS 2233. Nursing III Medical Surgical A continuation of focus on clients experiencing conditions that are usual, expected, and have predictable outcomes in a Medical Surgical setting. Emphasis is on the nursing process with modification and redesign of the plan of care. Corequisites, NRS 2232, NRSP 2244. NRSP 2272. Prerequisites, BIO 2103, BIO 2101, NRS 1235, NRS 1252, NRS 2212, NRS 2213, NRS 2251, NRSP 1243, NRSP 2223. Fall.

NRS 2311. NCLEX Preparation An introduction to the essential skills of problem solving and test taking that are critical to professional nursing. Fall.

NRS 2314. Concepts of Nursing Introduction to the concepts and theories basic to nursing assessment and intervention. General concepts of health, illness, and professionalism are explored. Focus is upon meeting basic human needs throughout the life span. Prerequisite, Admission to the BSN program. Corequisite, NRSP 1222. Fall.

NRS 2334. Health Promotion and Introduction to Acute Care Nursing Focus is on health promotion surrounding life cycle events as well as an introduction to acute care. Growth and development and family theory are addressed as professional concepts. Prerequisites, NRS 2314 and NRSP 1222. Spring.

NRS 2251. Role Development II An analysis of the role of the Registered Nurse and the legal and ethical issues in the health care system. Managerial and leadership aspects as related to the profession are discussed. Prerequisites, NRS 1235, NRS 1252 and NRSP 1243. Spring.

NRS 2353. Global Perspectives in Disaster Preparedness A focus on global disaster preparedness around the world will be identified including economic, health, political, psychological, cultural and religious impact of current and major historical disasters. Cross listed as DPEM 2353. Fall, Spring, Summer.

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. Pre 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 NRSP 2432. Fall.

NRS 2443. Essentials of Nursing Care of the Childbearing Family Theoretical basis for professional nursing care of the childbearing family. Emphasis is on nursing care of the woman, the fetus, and the infant within the family environment. Registration restricted to students who are accepted to the accelerated BSN option. Prerequisites, NRS 2423 and NRSP 1422. Corequisites, NRS 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 2793. Health Assessment and Exam Health history and physical examination skills are taught. The focus is on the adult while including an overview of special client populations. Students submit written H & Ps and self-recordings of skill performance. Prerequisites, Admission to the RN-BSN program, BIO 2203/2201 and BIO 2223/2221. Fall, Spring, Summer.

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, three credit hour statistics course. Corequisite, NRS 3345 and NRSP 3355. Spring.

NRS 3315. Acute Care Nursing I Health focus is on acute illness. Integrated foci include adult medical surgical, geriatrics, pediatrics, mental health and nutrition. Prerequisites, NRS 2334, NRSP 2343, NRS 2392 and NRSP 2391. Fall.

NRS 3325. Nursing Care Systems III Practicum in which NURS 3314 is implemented. The student designs and implements care for adults and children in a secondary care setting. Prerequisite or corequisite, NRS 3314. Fall.

NRS 3333. Women's Health. Past, Present and Future Health problems of women studies with both a traditional and contemporary focus. Emphasis on current information needed by health professionals to help women achieve optimum wellness. Prerequisites, Junior level nursing status or permission of instructor. Cross listed as WGS 3333. Fall, Summer.

NRS 3343. Clinical Pharmacology and Nursing Management Concepts essential for integration of pharmacological theory into professional nursing practice. Corequisite, NRS 3315 or permission of instructor. Fall, Summer.

NRS 3345. Acute Care Nursing II Continuation of concepts introduced in NRS 3315. Prerequisites, NRS 3315 and NRS 3343. Spring.

NRS 3353. Aging and the Older Adult Analysis of the aging process, including theories of aging, ethical issues, biopsychosocial aging changes, impact of changing needs on support systems. Designed for Nursing, Health Care, and Health Promotions majors. Other majors allowed by consent of instructor. Prerequisites, PSY 2013. Fall, 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, NRSP 3325 and prerequisite or corequisite, NRS 3344. Spring.

NRS 3381. Nursing Leadership Development Experiential learning and active involvement in the local, state and national levels of the National Student Nursing Association.

NRS 3383. Gerontological Nursing Emphasis is placed on the normal biophysical and psychological changes which occur as part of the normal aging process. Strengths, capabilities, problems, and limitations imposed by the pathological changes of aging are identified. Values, beliefs, and attitudes as well as resources are explored. Prerequisite, Junior with ten hours of nursing credit, Registered Nurse status, or permission of instructor. Demand.

NRS 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 2433, NRS 2443, and NRSP 2432. Corequisites, NRS 3343, NRS 3423, and NRSP 3433. Fall.

NRS 3423. Essentials of Community Health Concepts of professional nursing expanded to the care of individuals, families, and groups of patients in community and rehabilitation settings. Focus is on needs assessment, strategies, high risk families, professional roles and health care issues. Registration restricted to students who have been accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422. NRS 2392, NRSP 2391, NRS 2433, NRS 2443, and NRSP 2432. Corequisites, NRS 3343, NRS 3422, and NRSP 3433. Fall.

NRS 3445. Essentials of Medical Surgical Nursing II Health focus on individuals and families experiencing acute and chronic illness across the lifespan. Integrated foci include adult medical surgical, geriatrics, pediatrics, and nutrition. Registration restricted to students who have been accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 2392, NRSP 2391, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, and NRSP 3433. Corequisites, NRS 3023, NRSP 3453. Spring.

NRS 3463. Pathophysiology Based Pharmacology I Disruptions of normal human functioning and disease processes. Pharmacologic principles and treatment of select disease process are discussed. Link between the basic biological sciences and the application of pharmacological theory into nursing practice. Registration restricted to admission to the BSN. Fall.

NRS 3473. Pathophysiology Based Pharmacology II Disorders of normal human functioning and disease processes. Pharmacologic principles and treatment of select disease process are discussed. Ties basic biological sciences theory and the application of pharmacological theory into nursing practice. Registration restricted to students admitted to the BSN program. Spring.

NRS 3503. Principles of Disaster Preparedness and Emergency Management An all hazards approach is utilized to identify legal and ethical issues, cultural, political and religious issues, collective behaviors and group panic, role of the media, effective communication, and identification of resources for persons engaged in disaster and emergency preparedness. Fall, Spring, Summer.

NRS 3713. Evidence Based Practice Explores the nurse's role in the research process and provides the skills needed to evaluate the evidence and use research findings. Introduces professional writing styles and requires the application of a selected style in the preparation of various projects. Prerequisite, Admission to the RN-BSN Program. Pre/Co-requisite, Statistics. Fall, Spring, Summer.

NRS 3723. Clinical Pathophysiology An overview of the specific disruptions of normal physiology, mechanisms involved, disease manifestations and the therapeutic principles underlying treatment. Provides a link between the basic biological sciences and their clinical application. Prerequisites, Admission to the RN-BSN program, BIO 2103/2101 and BIO 2203/2201. Fall, Spring, Summer.

NRS 4053. Today's Families Interdisciplinary Approaches An interdisciplinary course designed to promote a critical approach to examine the family and its role in society. Prerequisite, twelve hours of coursework in Interdisciplinary Family Minor or Instructors permission. Spring.

NRS 4223. Forensic Nursing This course will introduce the beginning nurse to the field of forensic nursing. Content includes the recognition and management of forensic patients, both living and dead, and includes information on detection, collection, and preservation of evidence. Restricted to students who have completed 1 year of nursing coursework in either the AASN or BSN program, RN licensure, or permission of instructor. Summer, odd.

NRS 4312. Chronic Illness and Rehabilitation Nursing Focus on clients with chronic illness throughout the lifespan. Concepts of gerontology and rehabilitation are integrated. Prerequisites, NRS 3345, NRSP 3355, NRS 3312. Fall, Spring.

NRS 4343. Professional Nursing. Community Concepts of professional nursing practice expanded to the care of families and groups of clients in the community setting. Focuses also on change theory, group process strategies and professional and health care issues. Prerequisites, NRS 3345, NRSP 3355, NRS 3343, NRS 3392 and NRSP 3391. Fall, Spring.

NRS 4355. Critical Care and Emergency Nursing The focus of this course is on patients with potentially urgent or emergent healthcare needs which require ongoing assessment, immediate intervention and intensive nursing care. Prerequisites, NRS 3345, NRSP 3355, NRS 3343, NRS 3392, and NRSP 3391. Fall, Spring.

NRS 4362. Professional Role Development Concepts of professional socialization, accountability, advocacy, issues and trends which affect the role of the nurse are analyzed and discussed. Corequisites, NRS 4312, NRS 4343. Fall, Spring.

NRS 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 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343. MRS 3423, NRSP 3433, NRS 3445, NRS 3023, and NRSP 3453. Corequisites, NRS 4443 and NRSP 4433. Spring.

NRS 4443. Essentials of High Acuity Nursing Focuses on patients with acute episodic health deviations which require ongoing diagnosis, immediate intervention or intensive nursing observation and care. Registration restricted to Students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 2392, NRSP 2391, NRS 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, and NRSP 3453. Corequisites, NRS 4425 and NRSP 4433. Spring.

NRS 4481. 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. Spring.

NRS 4513. Physical Care of CBRN Victims Elucidates recognition, treatment and containment of Category A biological agents, chemical agents and radiologic 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. Cross listed as DPEM 4513. Fall, even.

NRS 4523. Disaster Risk Identification Identifies actions communities, institutions and governments must take to identify the risk and prevent injury from man made and natural disasters, including acts of terrorism. Course topics include risk assessment, mitigation, surveillance, disaster epidemiology, emerging infections and socio-political implications. Cross listed as DPEM 4523. Fall, odd.

NRS 4533. Disaster and Mental Health Identifies evolving evidence related to the impact of disaster and mass violence on mental health. Considers natural and man-made 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. Cross listed as DPEM 4533. Spring, even.

NRS 4542. 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.

NRS 4553. HSDP 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 3503. Permission of instructor required. Cross listed as POSC 4553, DPEM 4553. Spring.

NRS 4713. Chronic Illness Nursing Focus on clients with chronic illness throughout the lifespan. Concepts of gerontology, rehabilitation and spirituality are integrated. Prerequisites, Admission to the RN-BSN program, NRS 3723 and NRS 3713. Fall, Spring, Summer.

NRS 4723. High Acuity Nursing Focuses on patients with high acuity episodic or traumatic health deviations which require immediate intensive ongoing nursing diagnosis and interventions. Prerequisites, Admission to the RN-BSN program, NRS 3713 and NRS 3723. Fall, Spring, Summer.

NRS 4733. Nursing Management Managerial and leadership aspects of the nurse manager in various healthcare environments are discussed. Prerequisite, Admission to the RN-BSN Program, NRS 3713. Fall, Spring, Summer.

NRS 4743. Community Nursing 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, Admission to the RN-BSN program, NRS 3723 and NRS 3713. Fall, Spring, Summer.

NRS 4763. Professional Nursing Role Concepts of professional RN-BSN socialization, accountability, advocacy, issues and trends which affect the role of the nurse are analyzed and discussed. Prerequisite, Admission to the RN-BSN program. Fall, Spring, Summer.

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. Prerequisite or corequisite, NRS 2314. Fall.

NRSP 220V. Clinical Practicum. Independent Study Practicum experience in specific clinical areas determined by student and instructor. Review of clinical nursing care with emphasis on the performance of specific nursing procedures. A clinical laboratory fee will be assessed. Demand.

NRSP 2223. Clinical Practicum II Application of the nursing process in the care of individuals and families in all Stages of the life cycle. A clinical laboratory fee will be assessed. An additional fee is assessed for this course for the comprehensive assessment test. Prerequisites, NRS 1235, NRS 1252 and NRSP 1243. Spring.

NRSP 2244. Clinical Practicum III Refinement of the nursing process in providing care for selected clients. Prerequisites, NRS 2251 and NRSP 2223, Corequisite, 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 childbearing and perioperative care are developed. A clinical laboratory fee will be assessed. Prerequisites, NRS 2314 and NRSP 1422. Prerequisite or corequisite, NRS 2334. Spring.

NRSP 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 NURS 3314 is implemented. The student designs and implements care for adults and children in a secondary care setting. A clinical laboratory fee will be assessed. Prerequisite or corequisite, NRS 3315. Fall.

NRSP 3355. Nursing Care IV Practicum in which theory from NRS 3344 is implemented or expanded. The student designs, implements, and evaluates care of individual clients and families in secondary care settings. A clinical laboratory fee will be assessed. Prerequisites, NRSP 3325 and prerequisite or corequisite, NRS 3345. Spring.

NRSP 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.

NRSP 4336. Nursing Care V Practicum in which NRS 4314 and 4343 are implemented. Provision of health promotion, health maintenance, and disease management nursing care in home based and community based settings. A clinical laboratory fee will be assessed. Prerequisites or corequisites, NRS 4343 and 4314. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students. Fall, Spring.

NRSP 4366. Nursing Care VI Practicum in which theory from NRS 4354 and NRS 4733 is implemented. Care of clients and families in critical care and emergency care areas of the hospital. Also assumes role of coordinator and manager of client care in acute care setting. A clinical laboratory fee will be assessed. Prerequisite or corequisite, NRS 4354 and NRS 4733. An additional fee is assessed for this course for the comprehensive assessment examination given to all graduating nursing students. Fall, Spring.

NRSP 4393. Nursing Care Elective Practicum in which the student selects a clinical experience in an area of interest within a primary, secondary, or tertiary care setting. A clinical laboratory fee will be assessed. Prerequisites, Must have completed all Junior level BSN nursing courses and BIO 3203. Fall, Spring.

NRSP 4433. Clinical Experience IV Practicum in which theory from NRS 4425 and NRS 4443 is implemented. The student designs, implements and evaluates care for individuals and families with acute and chronic illness across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS, 2423, NRSP 1422. NRS 2392, NRSP 2391, NRS 2433, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, and NRSP 3453. Corequisites, NRS 4425 and NRS 4443. Spring.

NRSP 4456. Clinical Experience V This practicum builds on the concepts learned in previous courses. The student designs, implements, and evaluates care for individuals and families, groups, and populations across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 2392, NRSP 2391, NRS 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, NRSP 3453, NRS 4425, NRS 4443, NRSP 4433, NRS 4362, and NRS 4542. Corequisites, NRS 3312. Summer.

NRSP 4466. Clinical Experience VI This practicum builds on the concepts learned in previous courses. The student designs, implements, and evaluates care for individuals and families, groups, and populations across the lifespan in a variety of clinical settings. Registration restricted to students who are accepted to accelerated BSN option. Prerequisites, NRS 2423, NRSP 1422, NRS 2392, NRSP 2391, NRS 2433, NRS 2443, NRSP 2432, NRS 3422, NRS 3343, NRS 3423, NRSP 3433, NRS 3445, NRS 3023, NRSP 3453, NRS 4425, NRS 4443, NRSP 4433, NRS 4362, NRS 4542, and NRSP 4456. Corequisites, NRS 312. Summer.

NRSP 4793. RN-BSN Capstone Course Application of baccalaureate level nursing knowledge and skills in problem identification, analysis, synthesis, plan implementation, and evaluation in a specific area of clinical interest as a transition to the graduate level advanced practice role. Restricted to RN to BSN students only. Prerequisites, NRS 3713, NRS 3723, NRS 4713, NRS 4723, NRS 4743, NRS 4763 and NRS 4733. Fall, Spring, Summer, Demand.

NUTRITIONAL SCIENCE PROGRAM

Nutritional Science (NS)

NS 2203. Basic Human Nutrition Basic concepts of nutrition including factors that have an impact upon nutritional practices. Special attention to age related nutritional needs. Fall, Spring, Summer.

NS 3113. Nutrition Through Life Cycle I Special nutritional needs and interventions for fetal development, pregnant and lactating women, infants, and children are explored. Prerequisites, Admission to the Dietetics Program. Fall.

NS 3123. Nutritional Biochemistry The role of human cellular nutrition, both macro and micro nutrients, and metabolism in relation to health and disease. Prerequisites, Admission to the Dietetics Program. Fall.

NS 3133. Food Service Management Basic administrative skill acquisition, management principles, human resource issues, and fiscal responsibility in food service operations. Prerequisites, Admission to the Dietetics Program. Fall.

NS 3143. Basic Foods This course investigates the basic principles of food preparation methods, meal planning and food safety; includes lecture and lab experiences. Prerequisites, Admission to the Dietetics Program. Fall.

NS 3153. Food and Society Examines the relationship people have with food. The meaning and significance of food in different cultures and the influence of societal factors on food choices. Prerequisites, Admission to the Dietetics Program. Fall.

NS 3223. Nutrition Through Life Cycle II Special nutritional needs and interventions for teens, adults and older age adults. Prerequisites, Admission to the Dietetics Program, NS 3113, NS 3123, NS 3133, NS 3143 and NS 3153. Spring.

NS 3233. Dietetics Administration Prepares students for a career in dietetics administration emphasizing the development of leadership skills. Prerequisites, Admission to the Dietetics Program, NS 3113, NS 3123, NS 3133, NS 3143 and NS 3153. Spring.

NS 3243. Quantity Foods Explores large scale food production including equipment, food purchasing, facility design, and vendor relations. Prerequisites, Admission to the Dietetics Program, NS 3113, NS 3123, NS 3133, NS 3143 and NS 3153. Spring.

NS 3253. Nutrition Assessment An introduction to the Nutrition Care Process and assessment of the nutritional status of individuals including dietary, anthropometrics, laboratory and clinical examination. Prerequisites, Admission to the Dietetics Program, NS 3113, NS 3123, NS 3133, NS 3143 and NS 3153. Spring.

NS 4413. Medical Nutrition Therapy I Exploration of medical nutrition therapy for various disease states, including nutrition assessment, food-drug interactions and appropriate intervention. Prerequisites, Admission to the Dietetics Program, NS 3223, NS 3243, NS 3253, NS 3233, NSP 3213 and NSP 3326. Fall.

NS 4443. Experimental Foods Investigation of sensory and physical properties of foods through an experimental environment. Prerequisites, Admission to the Dietetics Program, NS 3223, NS 3243, NS 3253, NS 3233, NSP 3213 and NSP 3326. Fall.

NS 4453. Community Nutrition Emphasizing the role of nutritionists in needs assessment, evaluation and planning, and program design for a community nutrition education program. Prerequisites, Admission to the Dietetics Program, NS 3223, NS 3243, NS 3253, NS 3233, NSP 3213 and NSP 3326. Fall.

NS 4523. Medical Nutrition Therapy II Continued exploration and development of skills in providing nutrition intervention and management of patients with more advanced disease states, including enteral and parenteral nutritional support. Prerequisites, Admission to the Dietetics Program, NS 4413, NS 4453, NS 4443, NSP 4433 and STAT 3233. Spring.

NS 4553. Nutrition Counseling Development of communication and counseling skills for nutritional disorders including: obesity, coronary heart disease, diabetes, hypertension, cancer, renal disease, and eating disorders. Prerequisites, Admission to the Dietetics Program, NS 4413, NS 4453, NS 4443, NSP 4433 and STAT 3233. Spring.

NS 4563. Special Topics in Dietetics Addresses current topics and issues in the area of dietetics. Prerequisites, Admission to the Dietetics Program, NS 4413, NS 4453, NS 4443, NSP 4433 and STAT 3233. Spring.

NS 4573. Research Methods in Nutrition Explore various methods, designs and characteristics of nutrition research studies. Prerequisites, Admission to the Dietetics Program, NS 4413, NS 4453, NS 4443, NSP 4433 and STAT 3233. Spring.

Nutritional Science Practicum (NSP)

NSP 3213. Practicum I Supervised practice in foodservice settings which provides a foundation for beginning skills necessary in the practice of dietetics. Students will spend time in area schools and local university foodservice to practice basic management skills. Prerequisites, Admission to the Dietetics Program, NS 3113, NS 3123, NS 3133, NS 3143 and NS 3153. Spring.

NSP 3326. Practicum II Supervised practice in foodservice and community settings. Students will practice basic management skills in area hospitals/nursing homes and implement nutrition interventions in WIC practice settings, as well as gain experience in working with diverse populations. Prerequisites, Admission to the Dietetics Program, NS 3223, NS 3243, NS 3253, NS 3233, NSP 3213. Summer.

NSP 4433. Practicum III Supervised practice in community settings. Students will apply steps in the nutrition care process as they work with clients who have chronic conditions. Rotation sites include extension service, wellness program, home health, geriatric programs. Prerequisites, Admission to the Dietetics Program, NS 3223, NS 3233, NS 3243, NS 3253 and NSP 3213 and NSP 3326. Fall.

NSP 4543. Practicum IV Supervised practice in clinical settings. Students will travel to area hospitals and dialysis units, working with culturally diverse patients who have various chronic conditions. Students will continue to develop skills using the nutrition care process. Prerequisites, Admission to the Dietetics Program, NS 4413, NS 4453, NS 4443, NSP 4433 and STAT 3233. Spring.

NSP 4656. Practicum V Supervised practice in clinical settings. Students will refine clinical skills in area hospital facilities, further developing professional behaviors necessary in the practice of dietetics. Students will participate in culminating staff relief experience near the end of practicum. Prerequisites, Admission to the Dietetics Program, NS 4523, NS 4563, NS 4553, NS 4573, NSP 4543. Summer.

DEPARTMENT OF PHYSICAL THERAPY

Physical Therapy (PT)

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.

Physical Therapist Assistant (PTA)

PTA 1013. Making Connections in Physical Therapy Introduction to the nature of university education and orientation to the functions and resources of the university. This section is designed for students preparing for physical therapist assistant professional education with a focus on the profession of physical therapy and appropriate medical terminology. Fall, Spring.

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 2263. Pathophysiological Conditions Review of cardiopulmonary anatomy and physiology and other physiological conditions such as gastrointestinal, metabolic/endocrine, and multi-system pathologies. Includes physical therapy assessment and rehabilitation of patients with pathophysiological disorders frequently seen by physical therapy in the clinical setting. 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. Neuromuscular Physical Therapy II Covers common interventions used in the physical therapy management of patients with neuromuscular conditions. PTA courses are only open to students admitted to the professional program. Spring.

PTA 2323. Seminar Introduction to principles of administration, teaching and learning, and evidence based practice as they apply to physical therapy practice. Social responsibility, career development and lifelong learning are also discussed. PTA courses are only open to students admitted to the professional program. Spring.

PTA 2333. Clinical Education II Five weeks of full time affiliation at one facility working under the supervision of an on site clinical instructor. Students integrate knowledge of basic sciences and interventions to practice treatment techniques in the clinical setting. Forty hours per week. PTA courses are only open to students admitted to the professional program. Spring.

PTA 2343. Clinical Education III Six weeks of full time affiliation at one facility working under the supervision of an on site clinical instructor. Students integrate knowledge of basic sciences and interventions to practice treatment techniques in the clinical setting. Forty hours per week. PTA courses are only open to students admitted to the professional program. Spring.

PTA 2413. Directed Study Guided investigation of a topic related to physical therapy selected in consultation with a member of the Physical Therapist Assistant faculty. PTA courses are only open to students admitted to the professional program. Prerequisite, Approval of the Program Coordinator. Demand.

DEPARTMENT OF SOCIAL WORK

Social Work (SW)

SW 1203. Making Connections Social Work Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating social work majors. Fall.

SW 2203. Introduction to Social Work Explores the values, knowledge and skill base of empowerment oriented generalist social work practice. Includes historical development and organization of the social welfare system in the United States. Fall, Spring.

SW 2223. Social Problems Application of sociological concepts and methods in the analysis of current social problems in the United States, including family and community disorganization, delinquency and crime, mental illness, and intergroup relations. Cross listed as SOC 2223. Fall, Spring, Summer.

SW 3253. Social Work Practice I Micro Practice This is the first course in the practice foundation sequence. The focus is empowerment oriented generalist practice with micro systems, individuals. Prerequisites, SW 2203, BIOL 1003, and BIOL 1001, SW 3303, or taken concurrently. Spring.

SW 3303. Human Behavior and Social Environment I Physical, psychological, social growth and development, across the life span. For social workers. Prerequisite, SW 2203. Fall.

SW 3313. Introduction to Child Welfare Policies and practices in the field of child welfare with emphasis on the needs of children and their families, the major programs designed for them, and issues for future planning. Fall.

SW 3323. Substance Abuse. Intervention and Treatment Historical review of drug and alcohol problems, with an analysis of treatment modalities, theories of substance abuse, prevention and education strategies, and social policy implications. Summer, Demand.

SW 3333. Human Behavior in the Social Environment II This course is continuation of the HBSE I course. It focuses on the macro aspect of the human behavior in the areas of groups, institutions and organizations. Its purpose is to explore the behavior, influence, and interactions of these entities and their impact on social work practice. Prerequisite, SW 3303. Spring and on demand.

SW 3343. Child Abuse and Neglect Survey of theory and research of child abuse and neglect with emphasis on assessment and treatment of these problems. Prerequisite, SW 2203 or permission of the instructor. Spring.

SW 3353. Social Work with the Aging Study of the problems of older Americans together with a description of social programs serving the aged, learning social work skills in dealing with individual clients. Prerequisite, SW 2203 or permission of the instructor. Fall.

SW 3363. Cultural Diversity Application of social diversity concepts from the Human Behavior and the Social Environment sequence to practice situations will be incorporated into the study of ethical practice of social work with minority populations. Prerequisites, SW 3303 and SW 3333. Fall.

SW 4203. Crisis Intervention The process of crisis is examined and basic knowledge, interviewing and counseling skills are taught to work with those in crisis. Demand.

SW 4213. Introduction to Domestic Violence Explores the psychological, social, and legal causes/ramifications of domestic violence from micro, mezzo and macro perspectives, focusing on educating the social work student about the theories and principles guiding DV service delivery and crisis response techniques. Registration restricted to junior and senior level undergraduates. Demand.

SW 4263. Social Work Practice II Mezzo Systems This is the second course in the practice foundation sequence. The focus is generalist practice with mezzo systems, families and small groups. Prerequisite, SW 3253. Open only to seniors. To be taken concurrently with SW 4263. Fall.

SW 4273. Field Experience I Directed study and practice with clients in social welfare agencies. Supervision provided by faculty and host agency. Admission only upon acceptance into the Social Work Program. Prerequisites, Must have completed all general education requirements with an overall GPA of 2.5 and 2.5 in major courses. Must have completed SW 3253. Must be taken concurrently with SW 4263. Fall.

SW 4283. Field Experience Seminar Discussion and sharing of problems encountered in agency settings. A combination of lectures by social work practitioners and class discussion to help students integrate theory and practice. Admission only upon approval of instructor. Prerequisite, SW 4263 and SW 4273. To be taken concurrently with SW 4303 and SW 4296. Spring.

SW 4296. Field Experience II Application and integration of academic content in an actual working experience. Supervision provided by faculty and host agency. Admission only upon continued acceptance into the Social Work Program. Prerequisite, Completion of all major requirements except SW 4303 and SW 4283, with an overall GPA of 2.5 and 2.5 in major courses. Spring.

SW 4303. Social Work Practice III: Macro Systems This is the third course in the practice foundation sequence. The focus is generalist practice with macro systems, organizations and communities, as well as policy practice. Open only to seniors. Prerequisite, SW 4263. To be taken concurrently with SW 4283 and SW 4296. Spring.

SW 4313. Social Welfare Policy Analytical evaluation of how social welfare policies are formulated and implemented. Prerequisite, SW 3333. Fall.

SW 4363. Religion and Spirituality in Social Work Practice An examination of religious and spiritual beliefs in psychosocial development, the family, social policy, community and society. Demand.

SW 4373. Social Work and Health Care Services This course is designed to provide knowledge and understanding of direct social work practice in varied health care settings. Illness, disease, trauma and disability, death and dying are examined from an ecological systems perspective. Issues of diversity and bioethics are emphasized. Demand.

SW 460V. Special Problems Individually directed problems in Social Work. Must be arranged with the professor and approved by department chair. Demand.

COLLEGE OF SCIENCES AND MATHEMATICS

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

DEPARTMENT OF BIOLOGICAL SCIENCES

Biology (BIO)

BIO 1013. Making Connections Biology Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

BIO 1023. Biological Inquiry An inquiry-based introduction to concepts in biology, with an emphasis on behavior, ecology, and evolution. Research-oriented activities will emphasize the skills and attitudes necessary for understanding and conducting scientific inquiry. Fall. Prerequisite, permission of instructor.

BIO 1201. Human Anatomy Laboratory Study of the structure of the human body with emphasis on the muscular, skeletal, nervous, and vascular systems. For Radiologic Technology Science majors only. Special course fees may apply. Two hours per week. It is recommended this course be taken concurrently with BIO 1203. Fall.

BIO 1203. Human Anatomy Study of the structure of the human body with emphasis on the muscular, skeletal, nervous, and vascular systems. For Radiologic Technology Science majors only. Three hours per week. Special course fees may apply. It is recommended this course be taken concurrently with BIO 1201. Fall.

BIO 1211. Human Physiology Laboratory Study of the function of the human body with emphasis on the muscular, skeletal, nervous, respiratory and vascular systems. For Clinical Laboratory Science associate degree majors only. Two hours per week. Special course fees may apply. To be taken concurrently with BIO 1213. Spring.

BIO 1213. Human Physiology Study of the function of the human body with emphasis on the muscular, skeletal, nervous, respiratory and vascular systems. For Clinical Laboratory Science associate degree majors only. Three hours per week. Special course fees may apply. It is recommended that this course be taken concurrently with BIO 1211. Spring.

BIO 1301. Biology of Animals Laboratory Two hours per week. Special course fees may apply. It is recommended this lab be taken concurrently with BIO 1303. Fall, Spring, Summer, even. (ACTS#: BIO 1054)

BIO 1303. Biology of Animals Fundamentals of modern zoology and a survey of the phyla. Lecture three hours per week. Special course fees may apply. Fall, Spring, Summer, even. (ACTS#: BIOL 1054)

BIO 1501. Biology of Plants Laboratory Three hours per week. It is recommended that this lab be taken concurrently with BIO 1503. Special course fees may apply. Fall, Spring, Summer, odd. (ACTS#: BIOL 1034)

BIO 1503. Biology of Plants Form, structure, function, and reproduction of plants. Lecture three hours per week. Special course fees may apply. Fall, Spring, Summer, odd. (ACTS#: BIOL 1034)

BIO 2011. Biology of the Cell Laboratory Two hours per week. Recommended to be taken concurrently with BIO 2013. Special course fees may apply. Prerequisite, CHEM 1011.

BIO 2013. Biology of the Cell An introduction to structures and processes in cells, including cellular evolution, biologically important molecules, organelle structure and function, and cellular energy. Lecture three hours per week. Special course fees may apply. Prerequisite, CHEM 1013. Fall, Spring.

BIO 2042. Biotechnology in Global Society An introduction to the world-wide impact of biotechnology, including applications to plants, animals, and microorganisms. Introduction and exploration of basic concepts of genetic engineering, scientific and ethical issues, and public concerns related to biotechnology. Lecture two hours per week. Spring.

BIO 2101. Microbiology for Nursing and Allied Health Laboratory Two hours per week. It is recommended this course be taken concurrently with BIO 2103. Special course fee, 10.00. Fall, Spring, Summer. (ACTS#: BIOL 2004)

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. (ACTS#: BIOL 2004)

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. (ACTS#: BIOL 2404)

BIO 2203. Human Anatomy and Physiology I Introduction to the biology of atoms, molecules, organelles and cellular functions, tissues, functional anatomy of integumentary, skeletal, muscular and central nervous systems, interaction with external environment. Three hours per week. Special course fees may apply. No prerequisites. Fall, Spring, Summer. (ACTS#: BIOL 2404)

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. (ACTS#: BIOL 2414)

BIO 2223. Human Anatomy and Physiology II Major sense organs, autonomic nervous system and internal environment, neuro endocrine control mechanisms, respiratory and cardiovascular functions, oxygen and carbon dioxide transport, liver functions, digestive, renal and reproductive processes. Three hours per week. Special course fees may apply. It is recommended this course be taken concurrently with BIO 2221. Fall, Spring, Summer. (ACTS#: BIOL 2414)

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. It is recommended this course be taken concurrently with BIO 3013. Special course fees may apply. Fall, Spring.

BIO 3013. Genetics A study of the principles of heredity including Mendelian genetics, population and evolutionary genetics, and molecular genetics with a focus on patterns of human inheritance. Special course fees may apply. Prerequisites, BIO 2013 and BIO 2011. Fall, Spring.

BIO 3023. Principles of Ecology An introduction to the study of relationships and interactions of organisms and their environment. Special course fees may apply. Prerequisites, BIO 1501, BIO 1503, BIO 1301, and BIO 1303. Fall, Spring.

BIO 3033. Evolution A critical review of evolutionary principles, primarily the neo Darwinian theory, with comparisons to newly emerging theories. Lecture, selected readings, writings, and group discussions. Special course fees may apply. Prerequisites, BIOL 1001 and 1003 or higher. Spring, odd.

BIO 3051. Try Out the Classroom Introductory classroom experience led by ASU STEM faculty and area teachers. Topics include Arkansas science/math curriculum, classroom management, laboratory safety, and basic teaching skills. Students will develop and present science/math activities in area classrooms and campus outreach. Prerequisites, 8 BIO credit hours. Fall.

BIO 3201. Introduction to Medical and Dental Practices This course introduces students to the diversity of specialty practices within the fields of medicine and dentistry. Prerequisites, BIOL 1013, BIOL 1021, BIO 1203, and BIO 1201. Enrollment limited to students seeking a career in dentistry, medicine, podiatry, or optometry. Graded pass or fail, credit cannot be applied to degree requirements. Special course fees may apply. Spring.

BIO 3203. Pathophysiology The physiology of pathological disturbances and inborn 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 3221. Human Structure and Function I Laboratory Two hours per week. Special course fees may apply. Special course fees may apply. It is recommended this course be taken concurrently with BIO 3223. Fall.

BIO 3223. Human Structure and Function I This course covers the structure and function of the human organism. Topics covered include, cellular function, skeletal, muscular and nervous systems. Special course fees may apply. Prerequisite, BIO 1301, BIO 1303, CHEM 1023 and 1021. Fall.

BIO 3231. Human Structure and Function II Laboratory Two hours per week. Special course fees may apply. It is recommended this course be taken concurrently with BIO 3233. Spring.

BIO 3233. Human Structure and Function II This course covers the structure and function of the human organism. Topics covered include special senses and endocrine, respiratory, cardiovascular, digestive, urinary, reproductive and integumentary systems. Special course fees may apply. Prerequisites, BIO 3223 and BIO 3221. Spring.

BIO 3241. Physical Diagnosis This course provides an introduction to clinical medicine for pre-medical students by teaching the basics of physical examination. Prerequisite, BIO 1303 and BIO 1301. Enrollment limited to pre-medical students. Special course fees may apply. Graded pass or fail, credit cannot be applied to degree requirements. Fall.

BIO 3251. Introduction to Pathology This course introduces pre-medical students to presentation, physical findings, etiology and basic treatment of a number of common diseases and conditions. Special course fees may apply. Prerequisite, BIO 1303 and BIO 1301. Enrollment limited to pre-medical students. Graded pass or fail, credit cannot be applied to degree requirements. Spring.

BIO 3301. General Entomology Laboratory Two hours per week. It is recommended this course be taken concurrently with BIO 3303. Special course fees may apply. 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. Special course fees may apply. 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. Special course fees may apply. Spring.

BIO 3312. Comparative Anatomy Laboratory Four hours per week. Special course fees may apply. To be taken concurrently with BIO 3302. Fall, odd.

BIO 3313. Economic Entomology Life history, distribution, and control of injurious insects. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring.

BIO 3321. Animal Physiology Laboratory Three hours per week. Special course fees may apply. To be taken concurrently with BIO 3323. Spring.

BIO 3322. Invertebrate Zoology Classification and natural history of representative invertebrates. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring, even.

BIO 3323. Animal Physiology Chemical, physical, and biological functions of systems, including the study of metabolism and inter relationships of organ systems to the entire organism. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301, BIO 1303, CHEM 1021, and 1023. Spring.

BIO 3332. Invertebrate Zoology Laboratory Four hours per week. Special course fees may apply. To be taken concurrently with BIO 3322. Spring, even.

BIO 3501. Wild Flowers of Arkansas Identification and conservation of wild flowers in Arkansas, plus studying those that are edible, endangered or rare, poisonous, or may be used in flower gardens. Lecture one hour per week. Open to all majors. Special course fees may apply. Summer, odd every 4 years.

BIO 3511. Wild Flowers of Arkansas Laboratory Two hours per week. To be taken concurrently with BIO 3501. Special course fees may apply. Summer, odd every 4 years.

BIO 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 3673. Human Dimensions of Natural Resources Evolution of human perception of natural resources, sociocultural beliefs and practices of traditional societies, lessons for effective conservation/management plans of marine and terrestrial/freshwater systems, and case studies from around the world. Prerequisites, 2 among: PSY 2013, SOC 2213, POSC 1003, ECON 2333. Fall, Odd.

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 4033. Bioinformatics and Applications Provides a basic understanding of computational methods used in bioinformatics, including hands on training to access and use biological data sources to analyze nucleotide/amino acid sequences and three-dimensional atomic structures of proteins, nucleic acids allowing interpretations of biological processes. Lecture three hours per week. Prerequisite, BIO 3013. Spring.

BIO 4053. Applications in Biotechnology A capstone course which focuses on real world applications of biotechnology presented as case studies and utilizing current literature reviews. Medical, agricultural, environmental and industrial biotechnology and their ethical, legal and social implications covered. Prerequisite, BIO 3013. Spring.

BIO 4063. Biosafety and Ethics in Research Biosafety in the workplace, including chemical and radiation safety. Examination of moral and ethical issues in the laboratory and in research, including the concepts of transgenics, intellectual property and writing in research. Lecture three hours per week. Prerequisite, BIO 2013. Fall.

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. Special course fees may apply. 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.

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 4152. Laboratory in BioTechniqes I Laboratory techniques in protein chemistry and analytical techniques. Techniques also include a variety of chromatographic methods, electrophoresis, UV-vis spectroscopy and radiochemistry. Laboratory 4 hours per week. Special course fees may apply. Prerequisite, BIO 3013. Spring.

BIO 4152. Laboratory in BioTechniqes II Laboratory techniques in DNA/RNA isolation, analysis and applications, including PCR, reverse transcriptase PCR, recombinant DNA and the production of gene expression products. Laboratory 8 hours per week. Special course fees may apply. Prerequisite, BIO 4152.

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. Special course fees may apply. 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. Special course fees may apply. Prerequisites, 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. Special course fees may apply. Prerequisites, BIO 3301, BIO 3303, and BIO 3123 or BIO 4371 and BIO 4373. Spring, odd.

BIO 4302. Aquatic Entomology Laboratory Four hours per week. Special course fees may apply. To be taken concurrently with BIO 4301. Spring, odd.

BIO 4303. Forensic Entomology The life history, ecology and behavior of insects and related anthropods and how they affect the interpretation of potential crime scenes. Special course fees may apply. Prerequisites, 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 4352, BIO 4653, BIO 3023, or BIO 3033. Permission of Instructor required. Spring, odd.

BIO 4332. Animal Histology Cells and tissues of the organ systems of vertebrates. Lecture two 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. Special course fees may apply. Prerequisites, BIO 1303 and BIO 1301 or BIOL 1003 and 1001, and BIO 3023, or permission of instructor. Dual listed BIO 5333. Spring, even.

BIO 4341. Animal Embryology Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4343. Spring.

BIO 4342. Animal Histology Laboratory Four hours per week. Special course fees may apply. To be taken concurrently with BIO 4332. Spring.

BIO 4343. Animal Embryology Study of reproduction and development in animals including reproductive systems, gamete formation, fertilization, early cleavage, formation of germ layers, and development of the organ systems. Lecture three hours per week. Special course fees may apply. To be taken concurrently with BIO 4341. Prerequisites, BIO 1301 and BIO 1303. Spring.

BIO 4351. Mammology Laboratory Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4352. Fall, even.

BIO 4352. Mammology Classification, distribution, structure, ecology, adaptations, and economic importance of mammals. Lecture two hours per week. Special course fees may apply. 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.

BIO 4373. Animal Ecology The relationship of animals to their chemical, physical, and biological environment, and the distribution of animal life. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 3023. Fall, odd.

BIO 4382. Parasitology Parasites of vertebrates and plants, with emphasis on protozoan and helminth parasites of man and domestic animals. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring.

BIO 4392. Parasitology Laboratory Four hours per week. Special course fees may apply. To be taken concurrently with BIO 4382. Spring.

BIO 4401. Ichthyology Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4402. Fall, even.

BIO 4402. Ichthyology Taxonomy, distribution, natural history, and economic importance of fishes, with emphasis on Arkansas species. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Fall, even.

BIO 4403. Comparative Vertebrate Reproduction This combined lecture and lab course surveys major events in the vertebrate reproductive cycles and patterns. Special course fees may apply. Prerequisites, BIO 3231 and BIO 3233, or BIO 3323 and 3321. Dual Listed BIO 5403. Fall even.

BIO 4411. Herpetology Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4412. Spring, even.

BIO 4412. Herpetology Collection, identification, classification, distribution, economic importance, and life histories of amphibians and reptiles, with emphasis on Arkansas species. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1301 and 1303. Spring, even.

BIO 4413. Wildlife Program Internship Participation in a professional wildlife educational, management or research program activity. Internship is arranged by the student and may be a volunteer or paid position. Entails a minimum of 160 work hours. Special course fees may apply. Must be approved by advisor or chair. Fall, Spring, Summer.

BIO 4421. Ornithology Laboratory Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4423. Spring, even.

BIO 4423. Ornithology Morphology, physiology, taxonomy, behavior, ecology, natural history, zoogeography, and evolution of birds. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring, even.

BIO 4433. Field Experience in Marine Environments Hands on experience with living and non living components of environments. Emphasis on marine organisms and habitats but will incorporate human interactions associated with marine environments. Course is comprised of an intensive 12 day, 10 hours a day, field trip to an appropriate marine environment. Special course fees may apply. Prerequisites, BIO 4333, or BIOL 1003 and BIOL 1001, or permission of instructor.

BIO 4513. Plant Physiology General principles of conduction, cellular reactions, respiration, growth, photosynthesis, movement, hormones, and metabolism in plants. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1501, BIO 1503, and CHEM 2064 or 3103 and 3101. Spring, even.

BIO 4521. Wetland Plant Ecology Laboratory Two hours per week. To be taken concurrently with BIO 4522. Special course fees may apply. Spring, odd.

BIO 4522. Wetland Plant Ecology A study of plant responses to environmental factors during germination, growth, reproduction, and dormancy. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 3023 or permission of professor or chair. Spring, odd.

BIO 4541. Mycology Laboratory Two hours per week. To be taken concurrently with BIO 4542. Special course fees may apply. Fall, even every 4 years. Fall, odd.

BIO 4542. Mycology Morphology, cytology, genetics, and physiology of fungi. Lecture two hours per week. Four hours per week. To be taken concurrently with BIO 4541. Special course fees may apply. Fall, odd.

BIO 4551. Medical Mycology Laboratory Two hours per week. To be taken concurrently with BIO 4552. Special course fees may apply. Fall, even.

BIO 4552. Medical Mycology Cutaneous, systemic, and opportunistic fungus diseases mycoses of man and other animals. Lecture two hours per week. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Fall, even.

BIO 4601. Limnology Laboratory Two hours per week. To be taken concurrently with BIO 4603. Special course fees may apply. Fall, odd.

BIO 4603. Limnology 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, including the diversity of life, the value of biodiversity, the importance of diversity to humans and human cultures, and interdisciplinary strategies to conserve biological resources. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 3023 or permission of instructor. Spring, odd.

BIO 4621. Environmental Microbiology Laboratory Laboratory and field investigation into the role of microbes in the environment. Two hours per week. To be taken concurrently with BIO 4623. Special course fees may apply. Spring, odd.

BIO 4623. Environmental Microbiology Study of the physiology and diversity of microorganisms and their role in cycling of nutrients and mineralization of pollutants in the world. Special course fees may apply. Prerequisites, CHEM 1023 and BIO 2013, or BIO 4104, or BIO 4133. Spring, odd.

BIO 4633. Environmental Toxicology Mechanisms and Impacts Understanding the basic principles behind the study of impacts and the mechanisms of physiological disturbances associated with environmental toxicant exposure to natural systems. Prerequisites, BIO 4133 and BIO 4131, or CHEM 4243 or permission of instructor. Lecture three hours per week. Special course fees may apply. Fall, even.

BIO 4641. Environmental Biology Laboratory Field and laboratory exposure to ecological, economic and sociological aspects of management of water, soil and air resources. Content will vary based on current topics of importance in the field of environmental science. Laboratory three hours per week. Prerequisites, BIO 3023 or BIO 4373, BIO 4633 or permission of instructor. To be taken concurrently with BIO 4643. Special course fees may apply. Fall, odd.

BIO 4643. Environmental Biology Exposure to ecological, economic and sociological aspects of management of water, soil and air resources. Content will vary based on current topics of importance in the field of environmental biology. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 3023 or BIO 4373, BIO 4633, or permission of instructor. Fall, odd.

BIO 4651. Wildlife Management Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with BIO 4653. Fall, even.

BIO 4653. Wildlife Management The ecology and management of wildlife species and their environment, with emphasis on fish, waterfowl, upland game birds, and mammals. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Fall, even.

BIO 4661. Wildlife Management Investigational Techniques Laboratory Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4661. Spring, odd.

BIO 4663. Wildlife Management Investigational Techniques Identification of wildlife problems, project design, interpretation and construction of wildlife maps, food habit and census techniques, wildlife populations and habitat analyses, predictive population dynamics, and introduction to modeling and wildlife decision making procedures. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring, odd.

BIO 4673. Instruction to GIS for Natural Resources Introduction to the principles, theory, and practice of contemporary Geographic Information Systems for Natural Resources. Combination of lecture, reading, and computer based activity centered around natural resources will be used to provide background and understanding. Special course fees may apply. Prerequisites, BIO 3023 or consent of instructor. Fall.

BIO 4704. Plant Systematics A study of the systematics, nomenclature, morphology, and identification terminology for vascular plants with an emphasis on dichotomous key-based identification of flowering plants of Arkansas. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Spring.

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. Special course fees may apply. 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. (ACTS#: BIOL 1004, BIOL 1024)

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. (ACTS#: BIOL 1004)

BIOL 1033. Biology of Sex Biological basis of sex and reproduction with an emphasis on humans. Course will provide students with a basic functional understanding of human systems, which will lead to informed decisions regarding sexual and reproductive health. Lecture three hours per week. Special course fees may apply. Prerequisite, None. It is recommended this course be taken concurrently with BIOL 1001. Spring.

BIOL 1043. Plants and People Shaping the Future Significance of plants and plant products in human life. Course content centers around plants as representative biological organisms, and their role in shaping human society. Lecture three hours per week. It is recommended this course be taken concurrently with BIOL 1001. Special course fees may apply. Fall, Spring. (ACTS#: BIOL 1024)

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 I Laboratory Introduction and development of hands-on techniques essential to the use of fundamental equipment and glassware common in all laboratory based sub-fields of chemistry. Computer-based graphical and statistical analysis of data. Three hours per week. Special course fees may apply. Prerequisite or corequisite, CHEM 1013. Fall, Spring, Summer. (ACTS#: CHEM 1414)

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. Prerequisite, MATH 1023 or ACT composite score of 23 or higher. Prior completion of CHEM 1003 or high school chemistry strongly recommended. Fall, Spring, Summer. (ACTS#: CHEM 1414)

CHEM 1021. General Chemistry II Laboratory Continuation of CHEM 1011, with focus on demonstrating mastery of selected hands-on laboratory techniques and computer-assisted graphical and statistical analysis of data. Three hours per week. Corequisite or prerequisite, CHEM 1023. Prerequisite, CHEM 1011. Fall, Spring, Summer. (ACTS#: CHEM 1424)

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. (ACTS#: CHEM 1424)

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 Organic and Biochemistry 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 1021. Spring.

CHEM 2004. Descriptive Inorganic Chemistry Systematic study of the chemistry of the elements with problem solving using microcomputers. Lecture four hours per week. Special course fees may apply. Prerequisite, CHEM 1021 and 1023. Fall.

CHEM 2393. Special Problems Selected special or current topics of interest to faculty and students that require no prerequisite courses. This course is appropriate for a general student audience. See individual semester schedules for more information about each offering. Demand.

CHEM 3051. Try Out the Classroom Introductory classroom experience led by ASU STEM faculty and area teachers. Topics include Arkansas science/math curriculum, classroom management, laboratory safety, and basic teaching skills. Students will develop and present science/math activities in area classrooms and campus outreach. Prerequisites, 8 CHEM credit hours. Fall.

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. Prerequisites, CHEM 3103 and CHEM 3103. Fall, Spring, Summer.

CHEM 3124. Physical Chemistry I Systematic, rigorous development of fundamental chemical concepts presented in a unified lecture and laboratory format. Special course fees may apply. Prerequisites, PHYS 2044 or PHYS 2064, and MATH 3254. Fall.

CHEM 3134. Physical Chemistry II Systematic, rigorous development of fundamental chemical concepts presented in a unified lecture and laboratory format. Prerequisite, CHEM 3124. Spring.

CHEM 3154. Survey of Physical Chemistry A one semester course exploring the systematic development of fundamental chemical concepts. Special course fees may apply. Prerequisites, PHYS 2044 or PHYS 2064, MATH 2204 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 3134. Spring, even.

CHEM 4204. Inorganic Chemistry Includes the recent concepts of bonding and molecular structure as well as some of the less common chemistry of the elements. Lecture three hours, laboratory three hours per week. Special course fees may apply. Prerequisites, CHEM 3124. Spring.

CHEM 4224. Instrumentation Application and operational theories of modern instruments. Laboratory includes use of gas chromatography, infrared, ultraviolet visible and atomic absorption, spectroscopy, and electrochemical techniques. Lecture two hours, laboratory six hours per week. Special course fees may apply. Prerequisites, CHEM 3054, CHEM 3124. Fall.

CHEM 4241. Biochemistry Laboratory Experiments aimed to acquaint the student with problems and more important methods of biochemical research. Laboratory three hours per week. Special course fees may apply. Corequisite, CHEM 4243. Fall.

CHEM 4243. Biochemistry Presentation of the important areas of modern biochemistry and a description of methods commonly employed in biochemical research. Lecture three hours per week. Special course fees may apply. Prerequisites, CHEM 3113 and 3111. Fall, Spring, Summer.

CHEM 4254. Fundamentals of Mass Spectrometry Special topics in spectrochemical analysis. Atomic and molecular spectrometry, surface analytical methods, and their applications to forensic, environmental, atmospheric, geochemical, and bioanalytical problems. Integrated lecture and laboratory format. Special course fees may apply. Prerequisite, CHEM 3054 and CHEM 4243. Demand.

CHEM 427V. Research in Chemistry Directed study in some specialized phase of chemistry designed to provide experience in independent investigations. Special course fees may apply. Prerequisite, permission of the Chemistry Departments Independent Studies Committee. Fall, Spring, Summer.

CHEM 4281. Chemistry Seminar Preparation and presentation of a professional quality computer based seminar focusing on research completed during Research in Chemistry, CHEM 427V. Chemistry majors are required to take this course in their senior year. Prerequisite, third hour of CHEM 427V. Fall, Spring.

CHEM 4343. Pharmacology The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, BIO 2223 or BIO 3233, BIO 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. See individual semester schedules for more information about each offering. Registration restricted by permission of instructor. 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 2013. Forensic Science Survey An overview of forensic science including techniques in crime scene investigation, physical evidence collection and analysis, and expert testimony. Special course fees may apply. Fall.

FOSC 2113. Forensic Science Professional Practice Introduction of ethics and methods of forensic science from the perspective of practicing professionals including case studies and seminars. Special course fees may apply. Prerequisite, FOSC 2013. Spring.

FOSC 3853. Computer Forensics Students are introduced to information systems role in forensic computing. Emphasis will be on the retrieval, preservation, and analysis of computer data which might be used in legal cases. Special course fees may apply. Prerequisites, CRIM 2253, FOSC 2013. Fall.

FOSC 411V. Practical Training in Forensic Science Directed study or crime laboratory internship in some specialized field of forensic science designed to provide experience and practical training in forensic chemistry and forensic biology. Special course fees may apply. Special course fees may apply. Prerequisite, permission of the Forensic Science Internship Coordinator. Fall, Spring, Summer.

FOSC 427V. Special Problems in Forensic Science Topical or technique driven seminar relating to the forensic sciences that will lead to the training of students in a body of work, such as newly developed research technique and approach. Number of credit hours will vary. May be taken for a maximum of 3 hours. Special course fees may apply. Prerequisite, Permission of the instructor. Fall, Spring, Summer.

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. (ACTS#: GEOL 1124)

GEOL 1003. Environmental Geology A survey of fundamental geologic processes and associated hazards earthquakes, volcanic eruptions, floods, etc. and the interactions of humans with the environment. Lecture three hours. Prerequisite, MATH 0013 or ACT mathematics score of 16. Fall, Spring. (ACTS#: GEOL 1124)

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 overall view of the role of science in the development of modern civilization, and enables teachers to use content knowledge to properly direct the learning activities of pupils in science classes. Special course fees may apply. Fulfillment of the General Education Biological and Physical Science courses requirement. 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. (ACTS#: PHSC 1004)

PHSC 1203. Physical Science The relationship of man to his physical world, content of the course is centered on the development of our modern concepts about matter and energy and how this development is related to the social order of which man is a part. Lecture three hours. This course does not satisfy science certification for secondary school teachers. It is not accepted as a major requirement in any natural science field. Special course fees may apply. To be taken concurrently with PHSC 1201. Prerequisite, MATH 0013 or ACT Mathematics score of 16. Fall, Spring, Summer. (ACTS#: PHSC 1004)

Physics (PHYS)

PHYS 1101. Introduction to Space Science Laboratory Two hours per week. Special course fees may apply. To be taken concurrently with PHYS 1103. Demand. (ACTS#: PHSC 1204)

PHYS 1103. Introduction to Space Science A survey of the basic principles of science with emphasis on physics through their application to study about our place in the cosmos. Lecture three hours. This course will meet the general education requirements for physical science if taken with PHYS 1101. Special course fees may apply. Prerequisite, MATH 0013 or ACT Math score of 16. Demand. (ACTS#: PHSC 1204)

PHYS 2034. University Physics I Basic principles of mechanics, thermodynamics, materials and wave motion utilizing calculus with multimedia computers, at each station, in a unified lecture and lab format. 6 hours per week. Special course fees may apply. This course may be substituted for PHYS 2054. This course will meet the General Education Requirements for Physical Science. Corequisite, MATH 2204. Fall, Spring. (ACTS#: PHYS 2034)

PHYS 2044. University Physics II Continuation of PHYS 2034 covering the basic principles of electricity, magnetism, waves, optics and topics from modern physics utilizing calculus with multimedia computers, at each station, in a unified lecture and lab format. 6 hours per week. Special course fees may apply. Special course fees may apply. Prerequisite, Physics 2034 or 2054. This course may be substituted for PHYS 2064 or for PHYS 2083 and 2081. Corequisite, MATH 2214. Fall, Spring. (ACTS#: PHYS 2044)

PHYS 2054. General Physics I The essential of mechanics, heat, materials and simple harmonic motion in a unified lecture and laboratory format utilizing multimedia computers at each student station. Six hours per week. This course will meet the General Education Program requirements for physical science. PHYS 2034 may be substituted. Special course fees may apply. Special course fees may apply. Prerequisite, MATH 1033 or higher. Fall, Spring, Summer. (ACTS#: PHYS 2014)

PHYS 2064. General Physics II Continuation of PHYS 2054, the essentials of electricity, magnetism, wave motion, light and modern physics in a unified lecture and laboratory format utilizing multimedia computers at each student station. Six hours per week. PHYS 2044 may be substituted for this course. Special course fees may apply. Prerequisite, PHYS 2054 or 2034. Fall, Spring, Summer. (ACTS#: PHYS 2024)

PHYS 2071. Fundamental Physics I Laboratory Two hours per week. Special course fees may apply. Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2073. Demand.

PHYS 2073. Fundamental Physics I Basic principles of mechanics, special relativity, thermodynamics, and wave motion utilizing calculus. Lecture three hours per week. Special course fees may apply. Students enrolling in this course should enroll in Laboratory for Fundamental Physics I. Corequisite, MATH 2204. Demand.

PHYS 2081. Fundamental Physics II Laboratory Two hours per week. Special course fees may apply. Prerequisites, PHYS 2071 and 2073. Credit for this course is contingent upon earlier or simultaneous completion of PHYS 2083. Demand.

PHYS 2083. Fundamental Physics II Continuation of PHYS 2073. Covering electricity, magnetism, optics, and modern physics. Lecture three hours per week. Special course fees may apply. Students enrolling in this course should enroll in Laboratory for Fundamental Physics II. Corequisite, MATH 2214. Prerequisites, PHYS 2071 and 2073. Demand.

PHYS 2133. Survey of Physics for the Health Professions A survey for introductory mechanics, waves, electricity, magnetism, optics and modern physics with applications for students of the health professions. Special course fees may apply. Fall.

PHYS 2393. Special Topics Selected special or current topics of interest to faculty and students that require no prerequisite courses. This course is appropriate for a general student audience. See individual semester schedules for more information about each offering. Demand.

PHYS 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 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 mans cultural and scientific development. Special course fees may apply. Demand.

PHYS 3153. Mechanics Particle dynamics in inertial and accelerated reference frames. Newtons law of gravitation, orbit theory, and elementary rigid body dynamics. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 2214 and PHYS 2044. Fall.

PHYS 3203. Electromagnetic Theory Electrostatics, electric and magnetic properties of materials. Amperes and Faradays laws, and Maxwells equations. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 3254 and PHYS 2044. Spring.

PHYS 3253. Optics Geometrical optics and physical optics, including interference, diffraction, dispersion, absorption, and polarization of light. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 2214 and PHYS 2044. Spring, odd.

PHYS 3272. Physical Instrumentation I Design and use of physical instruments, including data reduction. Laboratory four hours per week. Special course fees may apply. Prerequisites, PHYS 2044. Fall, odd.

PHYS 3282. Physical Instrumentation II A continuation of PHYS 3272, including advanced data reduction techniques. Laboratory four hours per week. Special course fees may apply. Prerequisites, PHYS 2044. Spring, even.

PHYS 3303. Modern Physics An elementary study of the atomic nature of matter and nuclear structure of the atom. Lecture three hours per week. Special course fees may apply. Prerequisites, MATH 2214, and PHYS 2044. Fall.

PHYS 4353. Mathematical Physics The mathematical aspects of classical physics including Newtons laws, Lagrangian and Hamiltonian dynamics, Electrodynamics and Relativity. Lecture three hours per week. Special course fees may apply. Prerequisites, PHYS 3303 and MATH 3254. Fall, even.

PHYS 4393. Special Topics Selected special or current topics of interest to faculty and students that require prerequisite coursework. See individual semester schedules for more information about each offering. Registration restricted by permission of instructor. Demand.

PHYS 4403. Nuclear and Particle Physics Introduction to the structure of the nucleus, nuclear scattering and decay processes, mesons, nucleons, and quarks. Lecture three hours per week. Special course fees may apply. Prerequisite, PHYS 3303. Spring, odd.

PHYS 4432. Advanced Physics Laboratory I Experiments in classical and modern physics. Laboratory four hours per week. Special course fees may apply. Prerequisites, PHYS 2044. Fall, even.

PHYS 4442 Advanced Physics Laboratory II Continuation of PHYS 4432, including individual student projects. Special course fees may apply. Laboratory four hours per week. Prerequisite, PHYS 2044. Spring, odd.

PHYS 4463. Advanced Mechanics The Lagrangian and Hamiltonian formulations, rigid body mechanics, and special relativity. Special course fees may apply. Prerequisite, PHYS 3153. Demand.

PHYS 4513. Advanced Electromagnetic Theory Maxwells equations as applied to waveguides, radiation, and wave propagation in various media. Lecture three hours per week. Special course fees may apply. Prerequisite, PHYS 3203. Demand.

PHYS 4533. Solid State Physics Introductory study of the structure and physical properties of crystalline solids, including 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 Schrodinger wave equation, including the harmonic oscillator, the hydrogen atom, and perturbation theory, and associated topics. Lecture three hours per week. Special course fees may apply. Prerequisite, 20 hours of physics. Spring, even.

PHYS 4571. Physics Seminar Prerequisite, Fourteen hours of physics. Special course fees may apply. Demand.

PHYS 459V. Research in Physics Prerequisite, Fourteen hours of physics. Special course fees may apply. Demand.

PHYS 4693. Research in Physics-Capstone Students will conduct research with a physics faculty member, write a paper and present a talk on their research, and take an exit exam. Physics majors are required to take this course in their senior year. Special course fees may apply. Prerequisite, Twenty hours of Physics. Fall, Spring.

General Science (SCI)

SCI 3003. Science in the Cinema A study of the portrayal of science and scientists in the cinema throughout the last century. Students will study films and research scientific literature to investigate the accuracy of these portrayals and their effect on society. Prerequisite, ENG 1013. Fall, Spring.

Teaching Internship (TI__ __)

TICH 4825. Chemistry Teaching Internship in the Secondary School
Ten semester hours. Full semester teaching internship. Fall, Spring.

TICH 4826. Chemistry Teaching Internship in the Secondary School
Twelve semester hours. Full semester of teaching internship. Fall, Spring.

TIPH 4825. Physics Teaching Internship in the Secondary School
Ten semester hours. Full semester teaching internship. Fall, Spring.

TIPH 4826. Physics Teaching Internship in the Secondary School
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. (ACTS#: CPSI 1003)

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 and object-oriented programming. 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 2124 and MATH 2183, and MATH 2204 or MATH 2143 or MATH 2194. Fall, Spring.

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 3223. Computer Organization Basic principles of computer architectural design including instruction set principles, pipelining, instruction level parallelism, memory hierarchy, storage systems, and multiprocessing. Prerequisites, MATH 2204 or MATH 2143 or MATH 2194 and CS 2114. Fall.

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 3113. Spring.

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. Fall, 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. Fall.

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. Spring.

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. Demand.

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. Spring, 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.

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. Fall, odd.

CS 4811. Computer Science Seminar Critical discussion and presentation of papers on current topics in computer science. The prerequisites will vary according to the topic selected, but all students must have taken CS 3113. Demand.

CS 4823. 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 482V. Special Problems in Computer Science Individual problems or topics in computer science arranged in consultation with the instructor must be approved by the department. Prerequisite, CS 3113. Demand.

CS 483V. Internship Supervised work experience participating in application system development in a business and manufacturing environment. Grade earned will be pass or fail. Prerequisites. Permission of the Computer Science faculty and CS 3113. Demand.

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. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. 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. The grade in this course will not be used to compute semester and cumulative grade point averages. The course does not count toward any degree. 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 ACT Math or 460 or above on SAT Mathematics or 41 or above on COMPASS Algebra or 42 or above on ASSET Algebra or a grade of C or better in MATH 0013 or completion of 12 modules in UC 0173 and UC 022V. Fall, Spring, Summer. Fall, Spring, Summer. (ACTS#: MATH 1103)

MATH 1033. Plane Trigonometry Right triangles and similar triangles, trigonometric ratios, degrees, and radians, trigonometric functions, circular functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, Law of Sines, Law of Cosines, vectors, polar coordinates, and complex numbers. No credit given if taken following MATH 1054. Prerequisite, High School Algebra II and score of 19 or above on Math ACT or 590 or above on SAT, or a grade of C or better in MATH 0013 or Corequisite, MATH 1023. Fall, Spring, Summer. (ACTS#: MATH 1203)

MATH 1043. Quantitative Reasoning Quantitative reasoning as the approach to understanding relationships using mathematical and algebraic methodologies. Contemporary topics will be used to identify, analyze, generalize, and communicate quantitative relationships. Prerequisite, High School Algebra II and score of 19 or above on ACT Math or 460 or above on SAT Mathematics or 36 or above on COMPASS Algebra or 42 or above on ASSET Algebra or a grade of C or better in MATH 0013 or completion of 12 modules in UC 0173 and UC 022V. Fall, Spring, Summer. Fall, Spring, Summer. (ACTS#: MATH 1003)

MATH 1054. Precalculus Mathematics Selected topics from algebra, trigonometry, and analytic geometry. Prerequisite, High School Algebra II and score of 22 or above on Math ACT or 630 or above on SAT, or MATH 1023. Fall, Spring, Summer. (ACTS#: MATH 1305)

MATH 1093. Making Connections Mathematics Required course for first semester freshmen. Core content includes transition to college, academic performance skills, problem solving, critical thinking, self management, group building skills, and university policies. Content related to the departmental majors is also included. Fall.

MATH 1143. Finite Mathematics Selected topics include linear systems, matrices, linear equalities, linear programming simplex method, probability, combinatorics, statistics and finance application. Prerequisites, MATH 1023. Demand.

MATH 2113. Mathematics for School Teachers I Sets, logic, and numbers with emphasis on the axiomatic development of the real numbers. For elementary education majors only. Prerequisite, with a C or better in MATH 1023. This course may not be used to satisfy general education mathematics requirement. Fall, Spring, Summer.

MATH 2123. Mathematics for School Teachers II Mathematical systems, elementary algebra, probability and statistics, and geometry with applications. Prerequisite, 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 of one and several variables. Will not satisfy requirements for mathematics degrees. Prerequisite, MATH 1023 or MATH 1054 or a Math ACT score of 24 or an SAT score of 660. Fall, Spring, Summer.

MATH 2183. Discrete Structures Topics include sets and functions, partially ordered sets, trees and graphs, algorithms, symbolic logic, Boolean algebra, combinatorics, and probability modeling. Prerequisites, High School Algebra II and score of 22 or above on Math ACT or 630 or above on SAT, or MATH 1054. Fall, Spring.

MATH 2194. Survey of Calculus Survey of the basic concepts of calculus, including limits, derivatives, exponential and logarithmic functions, integrals, and series and sequences. Credit will not be given for both MATH 2194 and MATH 2204. Prerequisites, MATH 1023 or MATH 1054. Fall, Spring. (ACTS#: MATH 2203)

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. (ACTS#: MATH 2405)

MATH 2214. Calculus II Inverse trigonometric functions, hyperbolic functions, integration by parts, trigonometric substitution, partial fractions, integral tables, approximating definite integrals, Taylors Theorem, L'Hospital's Rule, improper integrals, sequences, series, power series, Taylor series, parametric curves, arc length, surface area and polar coordinates. Prerequisite, MATH 2204 with a grade of "C" or better. Fall, Spring, Summer. (ACTS#: MATH 2505)

MATH 3003. Geometry for Middle School Teachers Formal geometry in two and three dimensions, measurement, symmetry, congruence and similarity, coordinate geometry, constructions, conics. May not be used to satisfy the general education mathematics requirement. Prerequisites, C or better in both MATH 2113 and MATH 2123. Spring.

MATH 3051. Try Out the Classroom Introductory classroom experience led by ASU STEM faculty and area teachers. Topics include Arkansas science/math curriculum, classroom management, laboratory safety, and basic teaching skills. Students will develop and present science/math activities in area classrooms and campus outreach. Prerequisites, MATH 2204 and MATH 2214. Fall.

MATH 3133. Math for School Teachers III Mathematical systems of computation, geometry, algebra, probability and statistics with applications for the Middle School Teacher. This course may not be used to satisfy general education mathematics requirements. Prerequisites, 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 I Introduction to the theory of groups, rings, modules, and vector spaces, with emphasis on applications to the real number system. Prerequisite, MATH 2214. Fall.

MATH 3323. Mathematical Modeling Construction of mathematical models for use with problems in the mathematical sciences, operations research, engineering and the management and life sciences. Prerequisite, MATH 2214. Spring.

MATH 3343. College Geometry Geometric transformations and invariants. Prerequisite, MATH 2214. Spring.

MATH 3353. History of Mathematics Origin and development of modern mathematical concepts. Topics include systems of numeration, algebra, geometry, calculus, and the foundations of the real number system. Prerequisite, MATH 2214. Fall, odd.

MATH 4403. Differential Equations Topics in the elementary theory of differential equations, including existence theorems. Prerequisite, MATH 3254. Fall, Spring.

MATH 4423. Modern Algebra II Continuation of MATH 3303. Prerequisite, MATH 3303. Spring.

MATH 4513. Applied Mathematics Topics from ordinary and partial differential equations, including existence theorems. Prerequisite, MATH 3254. Fall, even.

MATH 4533. Numerical Methods Algebraic, transcendental, ordinary and partial differential equations, finite differences, and integral equations. Numerical integration, error analysis, and other topics of numerical analysis utilizing high speed computer techniques. Prerequisites, MATH 2214 and CS 2114. Fall, odd.

MATH 4553. Advanced Calculus I The calculus of one and of several variables. Limits, continuity, sequences, differentiation, partial differentiation, integration, and infinite series. Prerequisite, MATH 3254. Fall, Summer, even.

MATH 4563. Advanced Calculus II Continuation of MATH 4553. Prerequisite, MATH 4553. Spring.

MATH 4581. Mathematics Seminar Prerequisite, MATH 3303. Demand.

MATH 459V. Special Problems in Mathematics Prerequisite, MATH 3303. Demand.

Statistics (STAT)

STAT 3233. Applied Statistics I For students in a variety of disciplines including the sciences, allied health fields, and education. Descriptive statistics for quantitative and qualitative data, normal distributions, correlation, linear regression, sample surveys, randomized comparative experiments, sampling distributions, estimation and hypothesis testing for means and proportions. Prerequisite, MATH 1023 or equivalent. Fall, Spring, Summer.

STAT 4453. Probability and Statistics I Probability spaces, random variables, probability distributions, independence, conditioning, probability laws, sampling theory, and associated topics. Prerequisite, MATH 3254. Fall.

STAT 4463. Probability and Statistics II Point and interval estimation, testing hypotheses, standard statistical tests, correlation and regression, and nonparametric methods. Prerequisite, STAT 4453. Spring.

STAT 4473. Applied Statistics II A second course in applied statistics covering topics in statistical inference for comparing population means and proportions, power, and sample size analyses, analysis of variance, ANOVA, and multiple comparisons procedures, nonparametric statistical procedures, chi square analyses, and inference for regression. Prerequisite, STAT 3233 or equivalent. Spring.

Teaching Internship (TIMA)

TIMA 4825. Math Teaching Internship in the Secondary School Ten semester hours. Full semester teaching internship. Fall, Spring.

TIMA 4826. Math Teaching Internship in the Secondary School Twelve semester hours. Full semester of teaching internship. Fall, Spring.

MILITARY SCIENCE AND LEADERSHIP

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

Military Science and Leadership (MSL)

BASIC COURSES

MSL 1011. Foundations of Officership Examines the unique duties and responsibilities of officers. Discuss organization and role of the Army. Review basic life skills pertaining to fitness and communication. Analyze Army values and expected ethical behavior. Also required, leadership lab and participation in 1 hour physical fitness session. Fall, Spring.

MSL 1021. Basic Leadership Presents fundamental leadership concepts and doctrine. Practice basic skills that underlie effective problem solving. Apply active listening and feedback skills. Examine factors that influence leader and group effectiveness. Examine the officer experience. Also required leadership lab and participation in 1 hour physical fitness session. Fall, Spring.

MSL 2032. Individual Leadership Studies Develops knowledge of self, self confidence and individual leadership skills. Develop problem solving and critical thinking skills. Apply communication, feedback and conflict resolution skills. Also requires leadership lab and participation in 2 hours physical fitness session. Prerequisites, both MSL I courses. Fall.

MSL 2042. Leadership and Teamwork Focuses on self development guided by knowledge of self and group processes. Challenges current beliefs, knowledge, and skills. Provides equivalent preparation for the ROTC Advanced Course and the Leaders Training Course. Also requires leadership lab and participation in 2 hours physical fitness session. Prerequisites, both MSL I courses. Spring.

MSL 209V. Leadership Training Course A four week summer camp conducted at Fort Knox, Kentucky. The student receives pay. Travel, lodging, and most meals costs are paid by the Army. The environment is rigorous, and in some ways similar to Army Basic Training. Open only to students who have not taken all of the basic course completion requirements, and who pass a physical examination, which is paid by ROTC. Completion of basic camp qualifies a student for entry into the Advanced Course. 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.

MSL 2102. Military History Special topics in military history. Instructor approval required. Prerequisites, both MSL I courses. Fall, Spring.

ADVANCED COURSES

A prerequisite for entrance into the Advanced Course is completion of the four courses in the Basic Course, or completion of the ROTC Leaders Training Course or completion of Basic Training.

MSL 3053. Leadership and Problem Solving Examines basic skills that underlie effective problem solving. Analyze the role officers played in the transition of the Army from Vietnam to the 21st Century. Review the features and execution of the Leadership Development Program. Analyze military missions and plan military operations. Execute squad battle drills. Fall.

MSL 3063. Leadership and Ethics Probes leader responsibilities that foster an ethical command climate. Develop cadet leadership competencies. Prepare for success at Leader Development and Assessment Course -- LDAC. Recognize leader responsibility to accommodate subordinate spiritual needs. Apply principles and techniques of effective written and oral communication. Spring.

MSL 4073. Leadership and Management Builds on National Advanced Camp experience to solve organizational and staff problems. Discuss staff organization, functions, and processes. Analyze counseling responsibilities and methods. Examine principles of subordinate motivation and organizational change. Apply leadership and problem solving principles to a complex case study and simulation. Fall.

MSL 4083. Officership Capstone course designed to explore topics relevant to second lieutenants entering the Army. Describe legal aspects of decision making and leadership. Analyze Army organization for operations from the tactical to strategic level. Assess administrative and logistics management functions. Discuss reporting and Permanent Change of Station, PCS, process. Perform platoon leader actions. Examine leader responsibilities that foster an ethical command climate. Spring.

MSL 409V. Special Problems Individually selected material directed towards the field of Military Leadership or Military History. This course must be arranged in consultation with the Professor or Military Science. A course outline and goals will be kept on file with the Training Officer of this department.

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.

IP 4001. International Bridge Program This course is designed to facilitate the student's transition into American university study and life in the United States and to provide academic, linguistic, and cultural support for international students enrolled in a graduate program of study at ASU.

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.

Library (LIR)

LIR 1011. Introduction to Using Electronic Information Resources Strategies for effective academic research, including: selecting and using appropriate electronic and traditional resources, formulating searches, evaluating the quality and reliability of sources, and using information ethically. Fall, Spring.

The Faculty, 2014-2015

HARRIETTE ADAMS, 1996 — Instructor in Physical Education
B.S.E., Arkansas State University
M.S., Arkansas State University

THOMAS MYERS ADAMS, II, 1981 — Professor of Physical Education
B.S., East Carolina University
M.A., East Carolina University
Ed.D., West Virginia University

REJOICE ADDAE, 2012 — Assistant Professor of Social Work
B.S.W., University of Arkansas at Pine Bluff
M.S.W., University of Arkansas at Little Rock
Ph.D., Jackson State University

DAVID AGNEW, 1990 — Professor of Agricultural Education
B.S.A.E., University of Tennessee—Martin
M.Ed., Mississippi State University
Ed.D., Mississippi State University

JEONGHO AHN, 2008 — Assistant Professor of Mathematics
B.S., Kyung Hee University—South Korea
M.S., Kyung Hee University—South Korea
Ph.D., University of Iowa

ROY ALDRIDGE, 2000 — Professor of Physical Therapy
B.S., University of Tennessee—Memphis
M.S., University of Tennessee—Memphis
Ed.D., Arkansas State University

HASHIM ALI, 2009 — Assistant Professor of Chemistry
B.S., United Arab Emirates University
Ph.D., University of Iowa

KAREN ALLEN, 2012
B.A., Oakland University — —Assistant Professor of Social Work
M.S.W., Wayne State University — —Chair, Department of Social Work
Ph.D., Wayne State University

MARTI LU ALLEN — Director of ASU Museum
B.A., University of Missouri—Columbia
M.A., Michigan—Ann Arbor
Ph.D., University of Michigan—Ann Arbor

WILLIAM J. ALLEN, 1979 — Professor of Art History
B.A., University of Alabama
M.A., The Johns Hopkins University
Ph.D., The Johns Hopkins University

OSABUOHIEN P. AMIENYI, 1989 — Professor of Radio-Television
B.S., Tennessee State University — —Chair, Department of Media
M.A., Northern Illinois University
Ph.D., Bowling Green State University

BRENDA ANDERSON, 2007 — Associate Professor of Nursing
B.S.N., Arkansas State University
M.S.N., Arkansas State University

SUSAN ANSELM, 2005 — Instructor in Early Childhood Education —Mtn. Home
B.S.E., Southeast Missouri Sate University
M.S., University of Central Arkansas

PAUL ARMAH, 1997 — Professor of Agricultural Economics
B.Sc., University of Ghana
M.Sc., University College of Wales
Ph.D., University College of Wales

NICOLE ARNELL, 2010 — Assistant Professor of Graphic Design
B.A., Indiana University
M.F.A., Colorado State University

JEFFREY R. BAILEY, 1992 — Director, Library
B.A., Morehead State University
M.L.S., Clarion University of Pennsylvania

DARLENE BAKER, 1990 — Assistant Professor of Nursing
A.D.N., Arkansas State University
B.S.N., University of Central Arkansas
M.N.Sc., University of Arkansas for Medical Sciences
Ed.D., University of Memphis

TEMMA BALDUCCI, 2004 — Associate Professor of Art History
B.S., Mississippi State University
M.A., University of Alabama at Birmingham
Ph.D., University of Kansas

JERRY BALL, 1990 — Professor of English
B.A., Arkansas State University
M.A., Arkansas State University
Ph.D., University of Tennessee

DEBRA BALTZ, 2012 — Temporary Instructor in Mathematics
B.S., Arkansas State University
M.A., Arkansas State University

BRADY BANTA, 1997 — Associate Professor of History
B.S., Missouri Valley College — —Archivist, Library & Information Resources
M.A., Louisiana State University — —Associate Director, Heritage Studies Ph.D. Program
Ph.D., Louisiana State University
M.L.I.S., Louisiana State University

RACHEL BARKER, 2011 — Temporary Instructor in Psychology
B.S., Arkansas State University
M.R.C., Arkansas State University

JASON BARRETT-FOX, 2013 — Assistant Professor of English
B.A., Bethel College
M.A., University of Kansas
M.A., University of Kansas
Ph.D., University of Kansas

REBECCA BARRETT-FOX, 2013 — Temporary Assistant Professor of Sociology
B.A., Juniata College
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Ricky C. Clifft, 1980-2014	Emeritus Professor of Civil and Environmental Engineering
Daniel Cline, 1992-2010, deceased	Emeritus Professor of Education
Larry Clowers, 1969-2000	Emeritus Assistant Professor of Sociology
Marguerite Coe, 1972-1993, deceased	Emeritus Professor of Speech Communication
Charles Coleman,1991-2011	Emeritus Instructor in Mechanical Engineering and Director, Technology Program
Baron Conaway, 1965-1995, deceased	Emeritus Professor of Reading
Harold L. Copenhaver, 1970-1988	Emeritus Professor of Music and Dean, College of Fine Arts
Glenda Lee Coppedge, 1995-2007	Emeritus Temporary Instructor in English
John E. Cramer, 1978-1986, deceased	Emeritus Assistant Professor of Radio-Television
Albert B. Crosswait, 1968-1990, deceased	Emeritus Associate Professor of Education
William Crumpton , 1980-2006	Emeritus Associate Professor of Agricultural Engineering
Larry Dale, 1986-2009, deceased	Emeritus Professor of Economics
Roberta Daniels, 1985-1999	Emeritus Professor of Gifted & Talented Education
Scott Darwin, 1969-2008	Emeritus Professor of German
James L. Davenport, 1954-1985, deceased	Emeritus Associate Professor of Agricultural Economics
Emma Sue Davidson, 1972-1988, deceased	Emeritus Assistant Professor of Education
Don Denny, 1958-1993	Emeritus Associate Dean of Students
Bonnie Deuter, 1981-2003	Emeritus Assistant Professor of Nursing
James A. DeVazier, 1967-1991	Professor of Physical Education
Beverly DeWater, 1972-2001	Emeritus Assistant Professor of Psychology
Gerald Dickinson, 1990-2005, deceased	Emeritus Profess of Education
Jack Dison, 1976-2000	Emeritus Associate Professor of Sociology
Michael Dougan, 1970-2006	Emeritus Professor of History
Ervin Dunham, 1967-1983	Emeritus Professor of Music
John Enger, 1976-1999	Emeritus Professor of Education
David England, 1984-2006	Emeritus Associate Professor of Political Science
Daniel O. Felts, 1967-1996, deceased	Emeritus Instructor in Mathematics
Robert L. Ferralasco, 1952-1989	Emeritus Professor of Administrative Services and Chair, Department of CIS and Administrative Services
Thomas Fiala, 1998-2013	Emeritus Associate Professor of Teacher Education

George Foldesy, 1992-2014	Emeritus Professor of Education
Charles Ford, 1969-2006	Emeritus Professor of Marketing
Richard Freer, 1994-2014	Emeritus Associate Professor of Social Work
Wilbert Gaines, 1972-2005	Emeritus Associate Professor of Physical Education
Joel T. Gambill, 1966-2010	Emeritus Associate Professor of Journalism
Raymond Gazik, 1967-1998	Emeritus Professor of Mathematics
Roy Gehring, 1968-2000	Emeritus Associate Professor of Environmental Botany
Sammy Gennuso, 1963-2014	Emeritus Assistant Professor of English
Deborah Gilbert-Palmer, 2000-2011	Emeritus Associate Professor of Nursing
Martha Jane Gill, 1970-2002	Emeritus Instructor in French
David Gillanders, 1984-2006	Emeritus Professor of Electrical Engineering
Betty B. Goldsby, 1969-1985	Emeritus Instructor in Elementary Education
Fay Beth Gray, 1966-1969; 1972-2000	Emeritus Professor of Business Systems
William Greenwald, 1972-2007	Emeritus Associate Professor of History
Paul D. Gwinup, 1965-1994, deceased	Emeritus Professor of Chemistry
Lyman Hagen, 1969-1993, deceased	Emeritus Professor of English
Earl Hanebrink, 1958-1993, deceased	Emeritus Professor of Biology
James W. Hansard, 1964-1996	Emeritus Director of Dean B. Ellis Library
George Harp, 1967-1999	Emeritus Professor of Environmental Biology
Jeane Harris, 1986-2014	Emeritus Professor of English
James H. Harrison, 1973-1990	Emeritus Assistant Professor of Sociology
Charles Hartwig, 1973-2011	Emeritus Professor of Political Science
Thomas M. Harwell, 1968-1979, deceased	Emeritus Professor of English
Afak Haydar, 1970-1997, deceased	Emeritus Professor of Political Science and Public Administration, Associate Dean of University College and Executive Director of International Programs and Services
Jasper A. Hayles, Jr., 1967-1988	Emeritus Professor of Agricultural Education
George Y. Herndon, 1968-1985, deceased	Emeritus Professor of Speech Pathology
Lawrence Hinck, 1969-2001	Emeritus Professor of Microbiology
Jeffrey Hoeper, 1980-2004	Emeritus Professor of English
William Holmes, 1977-2000	Emeritus Professor of Music
Joe Horseley, 1983-2006	Emeritus Assistant Professor of Marketing
John Hosinski, 1965-1994, deceased	Emeritus Professor of Physical Education
D. Lynn Howerton, 1974-2014	Emeritus Professor of Psychology
Dan Hoyt, 1976-2000, deceased	Emeritus Professor of Managementand Coordinator of COB Internships
Terry L. Huckabee, 1969-1998	Emeritus Assistant Professor of Theatre Arts
Gladys M. Hudgins, 1953-1985, deceased	Emeritus Associate Professor of Physical Education
William D. Humphrey, 1988-2014	Emeritus Professor of Animal Science
James A. Hutchison, 1965-1992	Emeritus Professor of Biology
Perry Isbell, 1983-2005	Emeritus Assistant Professor of Technology
James W. Jackson, 1959-1986, deceased	Emeritus Instructor in Physical Education

O. Philip James, 1967-1978, deceased	Emeritus Professor of English and Dean of Liberal Arts
Paula James, 1981-2010	Emeritus Director of Admissions and Academic Advisor
G. David Jimerson, 1970-2002, deceased	Emeritus Associate Professor of Chemistry
Bob D. Johnson, 1967-1998	Emeritus Professor of Zoology
Robert E. Johnson, 1967-2007, deceased	Emeritus Professor of Mathematics
Robert Johnson, 1975-2012	Emeritus Professor of Psychology
Charles Joiner, 1987-2006	Emeritus Associate Professor of Social Work
Charlott Jones, 1972-1999	Emeritus Associate Professor of Art Education and Director, Museum
Richard Jorgensen, 1975-2009	Emeritus Professor of Music
Ellis Julien, 1968-2008	Emeritus Professor of Music
Joseph Justen, 1981-2004	Emeritus Professor of Special Education
John Kaminarides, 1968-2001	Professor of Economics
Donald P. Kedzie, 1984-1996, deceased	Emeritus Professor of Mechanical Engineering
John Keech, 1968-2008	Emeritus Professor of Art
Howard Keene, 1964-1993	Emeritus Professor of Animal Science
John D. Kelly, 1975-1998	Emeritus Professor of Music
Charles Kenner, 1966-1995, deceased	Emeritus Professor of History
Robert Kern, 1956-1993, deceased	Emeritus Director of the Printing Plant
Jerry King, 1972-2000, deceased	Emeritus Associate Professor of Sociology
Robert B. Kluge, 1956-1978, deceased	Emeritus Professor of Education
Barbara Knuckles, 1988-2011	Emeritus Instructor in Freshman Studies
Donald E. Konold, 1954-1989, deceased	Emeritus Professor of History
C. Roger Lambert, 1966-1997	Emeritus Professor of History
Albin J. Langlois, 1964-1997	Emeritus Professor of Agriculture
Julia Lansford, 1964-2008	Emeritus Associate Professor of Music
Gary Latanich, 1981-2014	Emeritus Professor of Economics
Norman Lavers, 1976-2000	Emeritus Professor of English
Jane H. LeBlanc, 1971-1981	Emeritus Instructor in Audiology
Nadean Lee, 1968-1992	Emeritus Head Circulation Librarian
Gary Leibrock, 1976-2003	Emeritus Instructor in Physical Education
Evan Lindquist, 1963-2003	Emeritus Professor of Art
Jerry Linnstaedter, 1968-2007	Emeritus Professor of Mathematics and Chair, Department of Mathematics and Statistics
Laddie Logan, 1979-2000, deceased	Emeritus Associate Professor of Marketing
Coy London, 1970-1996	Emeritus Associate Professor of Accounting
Robbie Lyle, 1976-1992	Emeritus Instructor in Developmental Programs
Frances Malpezzi, 1975-2011	Emeritus Professor of English
Julia M. Hite Manley, 1966-1976, deceased	Emeritus Associate Professor of Biology
Daniel R. Marburger, 1989-2014	Emeritus Professor of Economics
Ross Marlay, 1975-2008	Emeritus Professor of Political Science

Katherine Masters, 1977-2002	Emeritus Instructor in Developmental Studies and Director, Freshman Studies
Mitchell M. Masters, 1976-2002, deceased	Emeritus Professor of Education and Coordinator, Community College Teaching Program
Steven L. Mayes, 1988-2002	Emeritus Professor of Art
Charles B. McClelland, 1968-1976, deceased	Emeritus Associate Professor of English
Hal McCloud, 1966-1998	Emeritus Professor of Physics
Leonard McDaniel, 1967-1996	Emeritus Registrar
Mary Lou McDaniel, 1967-1993	Emeritus Assistant Dean of Students
V. Rick McDaniel, 1972-2007, deceased	Emeritus Professor of Zoology and Senior Associate Vice Chancellor for Academic Affairs
C. K. McFarland, 1971-1997	Emeritus Professor of History and Management
Richard McGhee, 1991-2003	Emeritus Professor of English
B.C. McGough, 1965-1987, deceased	Emeritus Professor of Real Estate
Sue McLarry, 1993-2013	Emeritus Associate Professor of Nursing
Alvin J. McRaven, 1965-1991	Emeritus Professor of Education
Clyde Milner, 2002-2014	Emeritus Professor of History
Lawrence Mink, 1966-2000, deceased	Emeritus Professor of Physics
Richard S. Mitchell, 1964-1998	Emeritus Professor of Chemistry
Logan Moon, 1968-1995, deceased	Emeritus Assistant Professor of English
Louella Moore, 1991-2012	Emeritus Professor of Accounting
Owen Moseley, 1986-2001	Emeritus Professor of Accounting
John Muir, 1985-2005	Emeritus Professor of Agronomy
Roland Mullins, 1965-1986	Emeritus Professor of Economics and Finance
Paul Nave, 1969-2003	Emeritus Professor of Chemistry and Chair, Department of Chemistry and Physics
Elizabeth Neeley, 1960-1980, deceased	Emeritus Assistant Professor of English
David W. Niederbrach, 1959-1997	Emeritus Associate Professor of Music
Warren A. North, 1966-1988, deceased	Emeritus Professor of Animal Science
Larry Olson, 1970-2001	Emeritus Associate Professor of Entomology
William Olson, 1984-1999, deceased	Emeritus Associate Professor of Management
Carol O'Connor, 2002-2012	Emeritus Professor of History Associate Dean, College of Humanities and Social Sciences
Thomas O'Connor, 1978-2013	Emeritus Professor of Music
Harriet O'Neal, 1975-2000	Emeritus Instructor in Music
Deborah Gilbert Palmer, 2000-2011	Emeritus Associate Professor of Nursing
Linda Parchman, 1976-1996	Emeritus Professor of Physical Education
Thomas Parsons, 1984-2014	Emeritus Professor of Civil Engineering
James L. Patty, 1965-1989, deceased	Emeritus Professor of Music
Gayle Pendergrass, 1991-2010	Emeritus Professor of Art
Emilio Perez, 1975-1995	Emeritus Professor of Communicative Disorders
Susan Power, 1968-2000	Emeritus Professor of Political Science
Robert Potts, 2006-2011	Chancellor Emeritus

Carol Pratt, 1976-1998	Emeritus Assistant Professor of Theatre Arts
Evelyn D. Prescott, 1953-1983, deceased	Emeritus Professor of Physical Education
Emmett A. Presley, 1975-1993	Emeritus Assistant Professor of Social Work
Paul Raines, 1972-1990	Emeritus Associate Professor of Botany
Charles L. Rasberry, 1961-1987	Emeritus Professor of Radio-Television and Chair, Department of Radio-Television
Daniel J. Reeves, 1999-2011	Emeritus Professor of Art Dean, College of Fine Arts
Edward C. Reilly, 1966-1996	Emeritus Professor of English
Stephen Replogle, 1970-2008	Emeritus Professor of Computer and Information Technology
Lyle G. Rhea, 1983-1994	Emeritus Professor of Mechanical Engineering
Edward L. Richards, 1963-1994, deceased	Emeritus Professor of Botany
Verlene Ringgenberg, 1994-2010	Emeritus Dean of Regional Programs
Terry Roach, 1990-2013	Emeritus Professor of Business Communication
Donald Roberts, 1968-1999	Emeritus Professor of Management Information Systems
Ellen Robinson, 1965-1994, deceased	Emeritus Assistant Professor of English
Luis Rodriguez, 1980-1994	Emeritus Associate Professor of Business Law
Jennifer Rogers, 1986-2005	Emeritus Instructor in Radio-Television
Keith Rogers, 1986-2000	Emeritus Professor of Agricultural Economics and Dean, College of Agriculture
Carol Ann Ross, 1994-2014	Emeritus Associate Professor of Teacher Education
Timothy Ross, 1965-2000	Emeritus Professor of History
Robert Rossa, 1969-2004, deceased	Emeritus Professor of Mathematics & Computer Science
Amos B. Rougeau, 1957-1992	Emeritus Professor of Agricultural Education
Mary Beth Rutherford, 1986-2005	Emeritus Associate Professor of Clinical Lab Sciences
Vance Sales, 1960-1991	Emeritus Professor of Education and Dean, College of Education
Lawrence Salinger, 1990-2013, deceased	Emeritus Professor of Political Science
Robert O. Saunders, 1965-1976, deceased	Emeritus Associate Professor of Physical Science
Louis Semrau, 1977-2001	Emeritus Professor of Special Education
Pat Shackelford, 1976-1997	Emeritus Associate Professor of Agricultural Engineering
Russell Shain, 1990-2010	Emeritus Professor of Journalism and Dean, College of Communications
J.B. Sheofee, 1964-1987	Emeritus Assistant Professor of Mathematics
J. Marlin Shipman, 1981-2007	Emeritus Professor of Journalism
Dewey H. Sifford, 1961-1997	Emeritus Professor of Chemistry
Frances Smallwood, 1964-1987	Emeritus Assistant Professor of Physical Education
C. Calvin Smith, 1970-2002, deceased	Emeritus Professor of History
Eugene Wilson Smith, 1958-1992	Emeritus Professor of Education and President of the University
Robert P. Smith, 1969-2008	Emeritus Associate Professor of Mathematics and Computer Science
Susan Smith, 1994-2012	Emeritus Assistant Professor of Nursing
Lois M. Snider, 1970-1990	Emeritus Instructor in Nursing

Victoria Spaniol, 1989-2014	Emeritus Assistant Professor of English
Jared Spears, 1967-1999	Emeritus Professor of Music
Norman Stafford, 1977-2008	Emeritus Professor of English
Helen S. Steger, 1981-1992	Emeritus Assistant Professor of Counselor Education
James H. Stevenson, 1965-1980, deceased	Emeritus Professor of Biology and Dean of Science
Elizabeth Stokes, 1991-2005	Emeritus Professor of Nursing
Shirl D. Strauser, 1966-1994	Emeritus Professor of Accounting
Herman Strickland, 1972-2008	Emeritus Associate Professor of Teacher Education and Dean, University College
Peggy Stroud, 1954-1984	Emeritus Associate Dean of Students
Jack Sugg, 1968-1999	Emeritus Assistant Professor of Physical Education
Ann Swaty, 1975-2004	Emeritus Assistant Professor of Music
Joseph P. Sweat, 1964-1990, deceased	Emeritus Professor of Education and Chair of Educational Administration and Secondary Education
Lois Ann Swisher, 1969-1990	Emeritus Assistant Professor of Spanish
Lonnie Talbert, 1966-1998	Emeritus Professor of Economics
Fuad Talib, 1982-2001	Emeritus Associate Professor of Insurance
Richard L. Tangeman, 1970-2002	Emeritus Professor of Mathematics and Computer Science
Patricia Teddlie, 1978-2006	Emeritus Professor of Sociology
Aubrey W. Tennille, 1962-1987, deceased	Emeritus Professor of Agronomy
John B. Thomas, 1984-1993, deceased	Emeritus Instructor in Journalism
Dan Timmermann, 1967-1993	Emeritus Professor of Botany
John H. Tipton, Jr., 1983-1993, deceased	Emeritus Assistant Professor of Management
Jannie Trautwein, 1984-2011	Emeritus Instructor in Physical Science and Director, Rural Institute for Math/Science Education
Norman Trautwein, 1967-2003	Emeritus Professor of Chemistry
Stephen Tricarico, 1968-2001	Emeritus Assistant Professor of Geography
Stanley Vanagunas, 1983-2000	Emeritus Professor of Public Administration
Mildred Vance, 1948-2002, deceased	Emeritus Professor of Education
Carl Vaupel, 1971-2002, deceased	Emeritus Professor of Education
David Vosburg, 1966-1996	Emeritus Associate Professor of Geology
Theron Waddle, 1980-2002	Emeritus Associate Professor of Music
Debra Walden, 1988-2014	Emeritus Associate Professor of Nursing
W.F. Wei, 1966-1985	Emeritus Associate Professor of Physics
Patricia Lawson Welch, 1978-2003	Emeritus Instructor in Health Education
Dennis White, 1974-2007	Emeritus Associate Professor of Communication Studies
Jess R. White, 1968-1989	Emeritus Professor of Physical Education
Grace Whitis, 1985-1999	Emeritus Professor of Nursing
Robert Whitis, 1985-1999	Emeritus Professor of Accounting
Dalton Whitt, 1968-1997	Emeritus Assistant Professor of Accounting
Barbara Wilke, 1999-2014	Emeritus Assistant Professor of Nursing
Emelda Williams, 1978-2000	Emeritus Professor of Marketing and Chair, Department of Management, Marketing & Business Systems

Herman F. Williams, 1953-1980, deceased	Emeritus Associate Professor of Agricultural Engineering
J. Larry Williams, 1974-1997, deceased	Emeritus Professor of Sociology
Stanley H. Williams, 1972-1997	Emeritus Professor of Education
Whitney Williams, 1986-2009	Emeritus Associate Professor of Clinical Laboratory Sciences and Chair, Department of Clinical Laboratory Sciences
William Williams, 1978-1996	Emeritus Associate Professor of Finance
Mary Lou Wood, 1965-1995	Emeritus Assistant Professor of Administrative Services
Donald E. Wright, 1970-1997, deceased	Emeritus Professor of Education
J. Leslie Wyatt, 1995-2010	Emeritus President
William Wyatt, 1967-2009, deceased	Emeritus Professor of Chemistry
Charles Yauger, 1964-2000	Emeritus Associate Professor of Management

Administrative Support Staff 2014-2015

FINANCE AND ADMINISTRATION

Administrative Services	Vacant
Budget Planning and Development	Donna McMillin, Assistant Vice Chancellor
Controller's Office	Russ Hannah, Associate Vice President for Finance/Controller
Convocation Center	Tim Dean, Director
Facilities Management	Al Stoverink, Assistant Vice Chancellor
Human Resources	Lori Winn, Assistant Vice Chancellor for Human Resources
Information & Technology Services	Henry Torres, Chief Information Officer
Procurement Services	Carol Barnhill, Director
Sponsored Programs Accounting	Nikki Turner, Director
Treasurer's Office	Judy Reed, Treasurer

CHANCELLOR

Administrative Services	Shawnie Carrier, Chief of Staff
Administrative Services	Sherry Johnson, Assistant to the Chancellor

ACADEMIC AFFAIRS AND RESEARCH

Academic Affairs	Gina Hogue, Associate Vice Chancellor for Academic Services
Administrative Services	Robin Hicks, Executive Assistant to the Provost
Admissions, Records and Registration	Tracy Finch, Registrar, Director
Assessment Services	Josephine Welsh, Director
Delta Center for Economic Development	Alan McVey, Executive Director
Delta Heritage Initiatives	Ruth Hawkins, Director
Fowler Center	Wendy Hymes, Director
Institutional Research & Planning	Kathryn Jones, Director
International Student Services	Chandni Khadka, Director
Honors College	Rebecca Oliver, Director
Museum	Marti Lu Allen, Director

STUDENT AFFAIRS

Student Services	Lonnie Williams, Associate Vice Chancellor
Student Services	Craig Johnson, Assistant Vice Chancellor
Student Services	Beth Silverthorn, Executive Assistant to the Vice Chancellor
Recruitment	Tammy Fowler, Director
Career Services	Markel Quarles, Director
Counseling Center	Phillip Hestand, Director
Dining Services	David Miller, Director
Disability Services	Jenifer Rice-Mason, Director
Enrollment Services	Vacant
Financial Aid and Scholarships	Terry Finney, Director
Parking Services	David McKinney, Director
Residence Life	Patrick Dixon, Director
Student Union	Martha Spack, Dean of Student Development
Student Health Center	Victoria Williams, Director
Testing	Rosemary Freer, Director
University Police	Randy Martin, Chief

UNIVERSITY ADVANCEMENT

Advancement Services	Holly Van Wagener, Director
Alumni Relations	Beth Smith, Director
Publications and Creative Services	Mark Reeves, Director
Marketing and Communications	Bill Smith, Director

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