

Undergraduate Catalog 2012-2013



ARKANSAS TECH UNIVERSITY 2012-2013 UNDERGRADUATE CATALOG

RUSSELLVILLE, ARKANSAS
WWW.ATU.EDU

Arkansas Tech University, a state-supported institution of higher education, is dedicated to nurturing scholastic development, integrity, and professionalism. The University offers a wide range of traditional and innovative programs which provide a solid educational foundation for life-long learning to a diverse community of learners.

Accreditation



Arkansas Tech University is accredited by The Higher Learning Commission and is a member of the North Central Association of Colleges and Schools, 30 N. LaSalle Street, Suite 2400, Chicago, Illinois 60602. (312) 263-0456.

Program Accreditations

AACSB International – The Association to Advance Collegiate Schools of Business
777 South Harbour Island Boulevard, Suite 750
Tampa, FL 33602-5730 USA
(813) 769-6500

The College of Education at Arkansas Tech University is accredited by the National Council for Accreditation of Teacher Education.

2010 Massachusetts Avenue NW, Suite 500
Washington, DC 20036
(202) 466-7496

This accreditation covers the institution's initial teacher preparation and advanced educator preparations programs.

National Association of Schools of Music
11250 Roger Bacon Drive, Suite 21
Reston, VA 20190
(202) 466-7496

National League for Nursing Accrediting Commission, Inc.
3343 Peachtree Road NE, Suite 850
Atlanta, GA 30326
(404) 975-5000

Commission on Accreditation for Health Informatics and Information Management Education
(Health Information Administrator)
C/O AHIMA
233 N. Michigan Avenue
Suite 2150
Chicago, IL 60601-5800
(312) 233-1131

Engineering Accreditation Commission of ABET, Inc.
111 Market Place, Suite 1050
Baltimore, MD 21202
(410) 347-7700

American Chemical Society
1155 16th Street NW
Washington, DC 20036
(202) 872-4600

Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT)
22377 Belmont Ridge Road

Ashburn, VA 20148
(703) 858-2150

Accreditation Commission for Programs in Hospitality Administration
P.O. Box 400
Oxford, MD 21654
(410) 226-5527

Commission on Accreditation of Allied Health Education Programs upon Recommendation by the Medical Assisting
Education Review Board of the American Association of Medical Assistants
(Medical Assistant)
20 East Wacker Drive, Suite 1575
Chicago, IL 60601
(800) 228-2262 Ext. 129

Foundation of Higher Education in Emergency Management (FOHE)
(Emergency Administration and Management)
965 Harrison Circle
Alexandria, VA 22304
(703) 284-6050

Computer Accreditation Commission of ABET
111 Market Place, Suite 1050
Baltimore, MO 21202
(410) 347-7700

National Institutional Memberships

American Association of Colleges for Teacher Education
American Association of Collegiate Registrars and Admissions Officers
AACSB International-The Association to Advance Collegiate Schools of Business
American Society for Engineering Education
American Association of State Colleges and Universities
Conference of Southern Graduate Schools
Council for the Advancement and Support of Education
Council on Hotel, Restaurant and Institutional Education
Mathematical Association of America
NAFSA: Association of International Educators
National Association of College Admissions Counselors
National Association of Schools of Music
National Association of Student Personnel Administrators
National Collegiate Athletic Association
National Collegiate Honors Council
National Commission on Accrediting
National Council on Rehabilitation Education
National League for Nursing
National Recreation and Park Association

Enrolling In College

Students are urged to acquaint themselves with this catalog thoroughly. It sets forth policies and procedures for enrolling and successfully completing the various programs of study.

The basic responsibilities of selecting a major field, enrolling in the prescribed courses of study in the field, and complying with the University's requirements for graduation rest with the student; however, University personnel will assist the student with problems encountered. Further assistance is offered in the form of capable departmental advisors, a full-time guidance and counseling service, and an appropriate graduation check list to serve as a reminder of the various graduation requirements.

For More Information

General Information	(479) 968-0389
Academic Advising Center	(479) 964-0843
Academic Affairs Office	(479) 968-0319
Admission Office	(479) 968-0343

Alumni Office	(479) 968-0242
Director of Athletics	(479) 968-0345
Business Office	(479) 968-0300
Continuing Education Office	(479) 498-6035
Counseling Office	(479) 968-0329
Disabilities Coordinator	(479) 968-0302
	TDD (479) 964-0536
Financial Aid	(479) 968-0399
	TDD (479) 968-0224
Graduate College	(479) 968-0398
Health and Wellness Center	(479) 968-0329
President's Office	(479) 968-0237
Professional Development Institute	(479) 964-0541
Public Safety	(479) 968-0222
Registrar's Office	(479) 968-0272
Student Accounts	(479) 968-0271
Student Services	(479) 968-0239
University Testing Center	(479) 968-0302
Student Housing	(479) 968-0376
Tucker Coliseum	(479) 968-0337

Arkansas Tech University will provide equal opportunity in employment to all persons. This applies to all phases of the personnel process, including recruitment, hiring, placement, promotion, demotion, separation, transfer, training, compensation, discipline, and all other employment terms, conditions, and benefits. Arkansas Tech University prohibits discrimination based on race, color, religion, national origin, sex, age, disability, genetic information, or veteran status.

Arkansas Tech University will provide a copy of this policy to all applicants for employment. All faculty and staff will be notified annually of the policy. Further, Arkansas Tech University will consider through a designated grievance procedure, the complaints of any person who feels that he or she has been discriminated against on the basis of race, color, religion, national origin, sex, age, disability, genetic information, or veteran status.

Arkansas Tech University will have an Affirmative Action Plan that contains a set of specific and result-oriented procedures to apply every good faith effort to achieve prompt and full utilization of minorities, women, those with disabilities or veterans at all levels and all segments of its workforce where deficiencies exist. Additionally, Arkansas Tech University will continually monitor and evaluate its employment practices to ensure that they are free of bias or discrimination based upon race, color, religion, national origin, sex, age, disability, genetic information, or veteran status.

A copy of the Affirmative Action Plan, including specific responsibilities and provisions for implementation and compliance, will be made available upon request. Responsibility for implementation and compliance with this Affirmative Action policy has been delegated to the Affirmative Action officer, e-mail affirmative.action@atu.edu.

Arkansas Tech University complies with all applicable state and federal laws including, but not limited to, Title VI and Title VII of the Civil Rights Act of 1964 as amended, the Age Discrimination in Employment Act of 1967 as amended, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act Amendments of 1974, the Civil Rights Restoration Act of 1987, the Americans with Disabilities Act of 1990, and the Civil Rights Act of 1991.

It is the policy of Arkansas Tech University to maintain the University Community as a place of work and study for staff, faculty, and students free of harassment, to include sexual and gender harassment and all forms of sexual intimidation and exploitation. All students, staff, and faculty should be aware that the University is both concerned and prepared to take action to prevent and correct such behavior. The determination of what constitutes sexual harassment will vary with the particular circumstances, but it may be described generally as unwanted sexual behavior, such as physical contact and verbal comments or suggestions which adversely affect the working or learning environment of others. Anyone who is subjected to offensive sexual behavior is encouraged to pursue the matter through the established informal or formal grievance procedures. Generally, the informal procedures afford an opportunity to explore a problem and consider alternative means for its resolution.

A copy of the annual budget is available in the Ross Pendergraft Library and Technology Center. A copy of the annual financial report is available from the Office of the Vice President for Administration and Finance in Room 207 of the Administration Building.

The provisions of this catalog are subject to change without notice and do not constitute an irrevocable contract between any student and Arkansas Tech University.

Academic Calendar 2012-2013

*** NOTE: The calendar for weekend classes or other classes with unusual term dates may differ from what is printed below. Contact the Student Accounts Office or the Registrar's Office for pertinent dates on courses with beginning and/or ending dates different from the main terms.**

Summer Session 2012

First Term - June 4, 2012 to July 6, 2012*

Late registration for first term	June 4 - 5
Classes begin	June 4
Last day to officially withdraw/drop courses with full reduction of tuition and fees	June 5
Last day to register and add courses/change sections	June 5
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	June 8
Preregistration for freshmen for fall semester	May through August
Last day to drop courses with a "W" or change from credit to audit	June 29
Holiday	(Wednesday) July 4
First term ends	July 6

Second Term - July 9, 2012 to August 10, 2012*

Late registration for second term	July 9-10
Classes begin	July 9
Last day to officially withdraw/drop courses with full reduction of tuition and fees	July 10
Last day to register and add courses/change sections	July 10
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	July 13
Last day to drop courses with a "W" or change from credit to audit	August 3
Second term ends	August 10
Graduation	August 11

Fall Semester 2012 - August 22, 2012 to December 11, 2012*

Registration	August 20 - 21
Classes begin	August 22
Last day to officially withdraw/drop courses with full reduction of tuition/fees	August 28
Last day to register and add courses/change sections	August 28
Labor Day holiday	September 3
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	September 26
Mid-term	October 10
Deadline for degree audit (transcript evaluation), December 2013 graduates	October 12
Preregistration for spring semester	November
Thanksgiving holidays	7:00 a.m., November 21 - 7:00 a.m., November 26
Last day to drop courses with a "W" or change from credit to audit	November 26
Reading Day	December 4
End of course examinations	6:00 a.m., December 5 - 9:00 p.m., December 11
Graduation	December 15

Spring Semester 2013 - January 14, 2013 to May 7, 2013*

Registration	January 10 - 11
Classes begin	January 14
Last day to officially withdraw/drop courses with full reduction of tuition/fees	January 18
Last day to register and add courses/change sections	January 18
Martin Luther King Day holiday	January 21
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	February 18
Mid-term	March 4
Deadline for degree audit (transcript evaluation), May 2014 graduates	March 6
Spring holidays	7:00 a.m., March 18 to 7:00 a.m., March 25
Deadline for degree audit (transcript evaluation), summer 2014 graduates	April 1
Preregistration for fall semester	April
Last day to drop courses with a "W" or change from credit to audit	April 19
Reading Day	April 30
End of course examinations	6:00 a.m., May 1 to 9:00 p.m., May 7
Graduation	May 11

Summer Session 2013 (tentative)

First Term - June 3, 2013 to July 5, 2013*

Late registration for first term	June 3 - 4
Classes begin	June 3
Last day to officially withdraw/drop courses with full reduction of tuition and fees	June 4
Last day to register and add courses/change sections	June 4
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	June 7
Preregistration for freshmen for fall semester	May through August
Last day to drop courses with a "W" or change from credit to audit	June 28
Holiday	(Thursday) July 4
First term ends	July 5

Second Term - July 8, 2013 to August 9, 2013*

Late registration for second term	July 8 - 9
Classes begin	July 8
Last day to officially withdraw/drop courses with full reduction of tuition and fees	July 9
Last day to register and add courses/change sections	July 9
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	July 12
Last day to drop courses with a "W" or change from credit to audit	August 2
Second term ends	August 9
Graduation	August 10

Administration and Faculty

Board of Trustees

Charles Blanchard, Russellville

Eric Burnett, Fort Smith

John Chambers III, Danville

Tom Kennedy, Little Rock

Leigh Whiteside, Russellville

Administrative Officers

Robert Charles Brown, 1993, President
B.A., Northwestern State University, 1967
M.A., Louisiana State University, 1969
Ph.D., Louisiana State University, 1976

John W. Watson, 1978, Vice President for Academic Affairs
B.A., University of Arkansas, 1971
M.S., University of Arkansas, 1973
Ed.D., Oklahoma State University, 1978

David C. Moseley, 1994, Senior Vice President for Administration and Finance
B.B.A., University of Arkansas at Monticello, 1964
M.B.A., University of Central Arkansas, 1984

Susie Nicholson, 1998, Vice President for Student Services and University Relations
B.A., University of Arkansas, 1986
M.S., Arkansas Tech University, 2010

Jayne W. Jones, 1976, Vice President for Development
B.S., Arkansas Tech University, 1988
M.A., Arkansas Tech University, 2001

Phil Jacobs, 2005, Vice President for Governmental Relations
B.S., Arkansas Tech University, 1968

Administrative Staff

Carol Adkison, Assistant Director of Computer Services for Administrative Systems

Alison Ahlert, Event Coordinator for Lake Point Conference Center

Karen Alexander, Assistant Director of Budget

Jan Apple, Academic Outreach Coordinator

Jamie Beck, Coordinator of Greek Life

Rebecca Bramlett, Institutional Research Associate

Jessica Brock, Coordinator of Concurrent Enrollment Programs

Marci Buhajla, English Language Institute Instructor

Jenny Butler, Coordinator of Student Activities and Orientation

Rebecca Callaway, Instructional Designer - eTech

Pat Chronister, Assistant to the Vice President for Academic Affairs

Linda Clarke, Director of Academic Advising Center

Fred W. Clayton, Director of Administrative Services

Lisa Cochran, Director of Continuing Education

Brandi Collins, Licensing Coordinator

Pam Cooper, Development Officer - Research

Will Cooper, Coordinator of Retention Services
Ashley Daniels, Admissions Officer
Kelly Davis, Director of Alumni Relations
Shawna Davis, Target School Liaison, Upward Bound Program
Curtis Diggs, Director of ATU Degree Center at Mid-South Community College
Shauna Donnell, Assistant Vice President for Enrollment Management
Brent Drake, Director of Development Services
Katherine Ehemann, Accounting Supervisor
Daniel Eshcol, International Student Advisor
Diana J. Evans, Assistant Registrar
Courtney Farris, Admissions Officer
Bryan Fisher, Director of Athletic Relations
Tommy Fields, Associate Registrar
Debra Fithen, Director of Corporate and Foundation Relations
Jennifer Fleming, Affirmative Action Officer/Director of Academic Services
Rhonda Fleming, Assistant Registrar
Beth Foster, Special Projects Coordinator, Purchasing
Elizabeth Giroir, Coordinator of TECH 1001 Program
Shirley M. Goines, Director of Student Aid
Ben Greenberg, Director of Sports Information
Veronica Jill Greenwood, English Language Institute Instructor
Brandie Griffin, Director of the College of Business College to Career Center
Luke Heffley, Parent Relations Coordinator/Retention Counselor
Jill Hendricks, Director of Upward Bound Programs
Aaron Hogan, Assistant Director for Residence Operations
Brent Hogan, English Language Institute Instructor
Aubrey Holt, Coordinator of Clubs/Organizations & Spirit Squads
Jeff Hudnall, Career Advisor
Lindsey Ingmire, Academic Advisor
Linda Johnson, Budget and Special Programs Director
Marilyn Johnson, Business Manager and Director of Student Accounts
Brian Lasey, Director of Physical Plant
Steve Lawrence, Associate Dean of Students
Lori LeBahn, Counselor
Marika Lederman, Academic Advisor
Ellen Malito, Area Coordinator, Housing
Jaime Martin, Director of Student Support Services Program
Leanne McConnell, Target School Liaison, Upward Bound Program
Joshua McMillan, Director of Public Safety
Marissa Merritt, Coordinator of Marketing and Special Events
Steve Milligan, Assistant Director of Computer Services for Networked Systems
Ray Moll, Associate Dean of Students for Student Success
Julie Morgan, Assistant to the President
Dana Moseley, Director of Gift Planning
Theresa Motley, Associate Director of Computer Services for Administrative Services
Courtney Mullen, Director of Graduate Support Services
Steve Mullins, Director of Athletics
Kristen Musser, English Language Institute Instructor
Hanna Norton, Assistant Vice President for Academic Affairs
Marsha Oels, Coordinator of Veteran Services

Donna Ogle, English Language Institute Coordinator
Yasushi Onodera, Director of International and Multicultural Student Services
Christine Pacheco, Associate Registrar
Jana Parker, Coordinator of Academic Services
Alison Parks, Coordinator of Young Alumni and Student Philanthropy
William A. Parton, Director of Library
Amy Pennington, Dean of Students
Thomas Pennington, Associate Vice President and Counsel to the President
Carrie Phillips, Director of New Media
Karen Pittman, Testing Coordinator
Chip Porter, Facility Manager, Lake Point Conference Center
Richard Pyle, Specialty Chef, Lake Point Conference Center
Donna Rankin, Controller
Lindsey Riedmueller, Student Support Services Program Advisor
Angela Reynolds, Special Projects Coordinator, Human Resources
Tammy Rhodes, Registrar
Karen Riddell, Coordinator of Academic Support Services
Tonya Roberts-Young, Director of the Center for Preparedness and Recovery
Adam Robison, Director of Professional Development Institute
Merrell E. Shoptaw, Director of Computer Services
Cara Slone, Admissions Officer
Kristin Smith, Director of the Tech Loyalty Fund
Kevin Solomon, Associate Dean for Campus Life
Brooke Southard, Director of Payroll and Special Services
Judith Stewart-Abernathy, Director of Arkansas Tech Museum
Michael Stoker, Director of Web Strategies and Operations
Kristy Stokes, Associate Dean of Student Wellness
Heather Stout, Staff Nurse
Sam Strasner, Director of University Relations
Ryan Taylor, Coordinator of Information Services
Tiffany Terrell, Admissions Officer
Lianne Thompson, Assistant Director of International and Multicultural Student Services
Bruce Trefney, Executive Chef, Lake Point Conference Center
Brandi Tripp, Associate Registrar
Shanna Turney, Upward Bound Tutor Coordinator
Jessica Uhlman, Area Coordinator, Housing
David G. Underwood, Associate Vice President for Academic Affairs
Gail Vaughan, Bookstore Manager
Alisa Waniewski, Coordinator of Recruitment and Academic Scholarships
Wyatt Watson, Director of Institutional Research and Assessment
Grant Watts, Coordinator of Intramural & Recreational Sports
Felisha Weaver, Director of Publications and Creative Services
Kenneth D. Wester, Associate Director of Computer Services for Networked Systems
Dave Wilbers, Academic Advisor
Lori Wineland, Student Support Services Program Advisor
Rita Woolf, Director of Health and Wellness Center/Registered Nurse
Ernest Yang, Academic Advisor

Academic Administration

College of Applied Sciences

William C. Hoefler, Dean

Malcolm Rainey, Head of Agriculture Department

Ronald Robison, Head of Computer & Information Science Department

Pat Buford, Head of Electrical Engineering Department

Sandra Smith, Head of Emergency Management Department

John Krohn, Head of Mechanical Engineering Department

Cathi McMahan, Head of Parks, Recreation and Hospitality Administration Department

College of Arts and Humanities

H. Micheal Tarver, Dean

H. Micheal Tarver, Interim Head of Art Department

W. Daniel Martin, Head of Behavioral Sciences Department

Carl W. Brucker, Head of English and World Languages Department

Jeffrey R. Woods, Head of History and Political Science Department

Cynthia L. Hukill, Head of Music Department

Anthony Caton, Interim Head of Speech, Theatre & Journalism Department

College of Business

R. Edward Bashaw, Dean

Pamela S. Carr, Head of Accounting and Economics Department

Kevin H. Mason, Head of Management and Marketing Department

College of Education

Eldon Clary Jr., Dean

David Bell, Head of Curriculum and Instruction Department

June Lawson, Director of Teacher Education Student Services

M. Annette Holeyfield, Head of Health & Physical Education Department

Susan Underwood, Head of College Student Personnel Department

College of Natural and Health Sciences

Jeff W. Robertson, Dean

Charles Gagen, Head of Biological Sciences Department

Thomas Limperis, Head of Mathematics Department

Rebecca Burris, Head of Nursing Department

James Musser, Head of Physical Sciences Department

College of Professional Studies and Community Outreach

Mary Ann Rollans, Dean

Jeff Aulgur, Head of Professional Studies Department

Graduate College

Mary Gunter, Dean

Faculty

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

The date after each name indicates the first year of appointment to this institution.

[Top](#)

GABRIEL L. ADKINS, 2009
Assistant Professor of Speech
B.A., Ottawa University, 1996;
M.S., Pittsburg State University, 2002;
M.A., Wichita State University, 2005;
Ph.D., University of Oklahoma, 2011.

SHERMAN Q. ALEXANDER, 1993
Associate Professor of Accounting
B.S., Eastern Illinois University, 1984;
M.B.A., Eastern Illinois University, 1985;
Ph.D., University of Kentucky, 1995,
C.P.A.

VREGE AMIRKHANIAN, 1989
Associate Professor of Mathematics
B.S., Tehran University, 1969;
M.S., Oklahoma State University, 1973;
Ph.D., Oklahoma State University, 1978.

AMY ANDERSON, 2011
Assistant Professor of Nursing
B.S.N., Abilene Christian University, 1994;
M.S.N., Abilene Christian University, 2001.

CHRISTOPHER M. ANDERSON, 2011
Associate Professor of Music
Director of Bands
B.M.E., Abilene Christian University, 1995;
M.M., Northwestern University, 1996.

STANTON C. APPLE, 1989
Instructor of Mechanical Engineering
B.S.M.E., University of Arkansas, 1989.

JEFFREY AULGUR, 2011
Assistant Professor of Professional Studies
Head, Department of Professional Studies
B.A., Hendrix College, 1986;
M.A., University of Arkansas, 1991;
M.S., Arkansas Tech University, 2008.

CHRISTINE E. AUSTIN, 2007
Assistant Professor of College Student Personnel
B.A., University of Denver, 1984;
M.Ed., University of Maine, 1990;
Ph.D., University of Denver, 2007.

[Top](#)

JIMMY O. BAILEY, 2010
Assistant Professor of Emergency Management
B.S., University of Tampa, 1996;
M.S., Arkansas Tech University, 2009.

CATHY BAKER, 1998
Professor of Geology
B.S., Arkansas Tech University, 1976;
M.S., University of Arkansas, 1978;
Ph.D., University of Iowa, 1986.

DEBORAH L. BARBER, 2002
Associate Professor of Music
B.S., Auburn University, 1975;
M.Ed., Auburn University, 1989;
Ph.D., Auburn University, 2003.

GARY W. BARROW, 1981
Professor of Music
B.M.E., North Texas State University, 1969;
M.M., Catholic University of America, 1973;
Ph.D., North Texas State University, 1982.

R. EDWARD BASHAW, 2010
Professor of Marketing
Dean, College of Business
B.S.E., Baylor University, 1980;
M.S.E., Baylor University, 1982;
M.B.A., Baylor University, 1991;
Ph.D., University of Memphis, 1995.

ALICE BATCH, 2003
Assistant Professor of Business
B.A., California State University, 1978;
M.B.A., California State University, 1984.

KRISTY BAYER, 2004
Instructor of Health and Physical Education
Head Coach
B.A., Grand Valley State University, 2001;
M.Ed., Grand Valley State University, 2003.

LINDA C. BEAN, 2000
Associate Professor of Business
B.S., Arkansas Tech University, 1973;
M.S.E., University of Central Arkansas, 1986;
Ed.D., Oklahoma State University, 1996.

C. DAVID BELL, 1988
Professor of Elementary Education
Head, Department of Curriculum and Instruction
B.S., Arkansas Tech University, 1969;
M.Ed., University of Arkansas, 1972;
Ed.D., University of Arkansas, 1978.

MICHAEL E. BENEFIELD, 1995

Associate Professor of Finance
B.S., United States Military Academy, 1968;
M.Ed., University of North Carolina, 1976;
M.B.A., Arkansas State University, 1980;
M.S.I.S., Arkansas State University, 1984;
Ph.D., Purdue University, 1989.

ANWAR A. BHUIYAN, 2001

Associate Professor of Chemistry
B.S., Dhaka University, 1983;
M.Sc., Dhaka University, 1986;
M.S., Northeast Louisiana University, 1994;
Ph.D., Marquette University, 1999.

GLEN R. BISHOP, 2001

Associate Professor of Recreation and Park Administration
B.S., University of Michigan, 1979;
M.S., Texas A & M, 1985;
Ph.D., Michigan State University, 1994.

GENE MARIE BLACK, 1991

Professor of Management
B.S., University of Wisconsin (Oshkosh), 1981;
M.S., University of Wisconsin (Oshkosh), 1987;
Ph.D., Georgia Institute of Technology, 1991.

CAREY A. BOSOLD, 2004

Assistant Professor of Nursing
B.S.N., Arkansas Tech University, 1996;
M.S.N., University of Central Arkansas, 2002.

ERIC E. BOWNE, 2009

Assistant Professor of Anthropology
B.A., University of Georgia, 1996;
Ph.D., University of Georgia, 2003.

JACQUELINE K. BOWMAN, 2001

Associate Professor of Biology
B.S., Purdue University, 1982;
B.S., Illinois State University, 1984;
M.S., Illinois State University, 1986;
Ph.D., Indiana University, 1994.

LYN BRANDS, 2003

Associate Professor of Art
B.A., Fort Hays State University, 1984;
M.F.A., Fort Hays State University, 1990.

MOLLY BRANT, 2005

Associate Professor of Agriculture
B.S., Oklahoma State University, 2000;
M.S., Oklahoma State University, 2002;
Ph.D., Kansas State University, 2005.

HERBERT MATT BROWN, 2008

Assistant Professor of Computer and Information Science
B.A., University of Arkansas, 1998;
M.S., University of Arkansas, 2000;
Ph.D., Nova Southeastern University, 2007.

KRISTI M. BROWN, 2008

Instructor of Mathematics
B.S., University of Arkansas, 1997;
M.S., University of Arkansas, 1999.

ROBERT CHARLES BROWN, 1993

Professor of Economics
President
B.A., Northwestern State University, 1967;
M.A., Louisiana State University, 1969;
Ph.D., Louisiana State University, 1976.

CARL W. BRUCKER, 1984

Professor of English
Head, Department of English and World Languages
B.A., Rutgers University 1968;
M.A., Rutgers University, 1976;
Ph.D., Rutgers University, 1980.

VALERIE KATE BRUGH, 1997

Assistant Professor of Speech/Theatre
B.A., Roanoke College, 1992;
M.F.A., Southern Illinois University, 1998.

B. TY BRUNSON, 1999

Associate Professor of Art
B.F.A., Louisiana Tech University, 1979;
M.F.A., Louisiana Tech University, 1986.

LINDA A. BUCKHOLTZ, 1998

Assistant Professor of Nursing
B.S.N., University of Arkansas at Pine Bluff, 1988;
M.N.Sc., University of Arkansas for Medical Sciences, 1992.

PATRICIA S. BUFORD, 2000

Associate Professor of Electrical Engineering
Head, Department of Electrical Engineering
B.S., Christian Brothers University, 1974;
M.S., University of Arkansas, 1985;
Ph.D., University of Arkansas at Little Rock, 2007.

DANIEL W. BULLOCK, 2003

Associate Professor of Electrical Engineering and Physics
B.S., Arkansas Tech University, 1997;
M.S., University of Arkansas, 2000;
Ph.D., University of Arkansas, 2001.

W. DAYL BURNETT, 2011

Assistant Professor of Music
B.A., Virginia Tech, 1983;
M.A., Virginia Tech, 1991;
D.M.A., University of Miami, 2010.

REBECCA K. BURRIS, 1991

Professor of Nursing
Head, Department of Nursing
B.S.N., Northwestern State University of Louisiana, 1978;
M.S.N., Northwestern State University of Louisiana, 1991;
Ph.D., University of Arkansas for Medical Sciences, 2000.

CHARLES P. BUSCH, JR., 1986

Professor of Philosophy
B.A., Columbia University, 1971;
M.A., University of Southern California, 1974;
Ph.D., University of Southern California, 1977.

[Top](#)

REBECCA A. CALLAWAY, 2006

Associate Professor of Instructional Technology
Instructional Designer - eTech
B.S., Northwestern State University, 1973;
M.Ed., Northwestern State University, 1977;
Ed.D., Louisiana Tech University, 2004.

ALEJANDRA K. CARBALLO, 2009

Assistant Professor of Spanish
B.A., University of Rio Cuarto, Argentina, 1995;
M.A., University of Pennsylvania, 2000;
Ph.D., Florida State University, 2006.

LAURIE CARMAN, 2000

Instructor of Mathematics
B.S., Arkansas Tech University, 1997;
M.Ed., Arkansas Tech University, 2003.

DONALD A. CARNAHAN, 1985

Professor of Mathematics
B.A., Arkansas College, 1967;
M.S., University of Arkansas, 1969;
Ph.D., University of Arkansas, 1973.

PAMELA S. CARR, 1991

Professor of Accounting
Head, Department of Accounting and Economics
B.S., Arkansas Tech University, 1977;
M.A., Southwest Missouri State University 1984;
Ph.D., Oklahoma State University, 2001;
C.P.A.

TIM L. CARTER, 1998

Professor of Curriculum and Instruction
B.S., Arkansas Tech University, 1989;
M.Ed., Arkansas Tech University, 1994;
Ph.D., University of Georgia, 1998.

CARLOS CASTILLO, 2009

Assistant Professor of Electrical Engineering
B.S.E.E., University of Los Andes (Venezuela)
1991;
M.S.E.E., University of South Florida, 2003;
Ph.D., University of South Florida, 2008.

ANTHONY A. CATON, 2004

Assistant Professor of Journalism
Interim Head, Department of Speech, Theatre,
and Journalism
Director of Broadcasting
A.A., University of Arkansas at Fort Smith, 1988;
B.A., University of the Ozarks, 1990;
M.A., University of Arkansas, 1992.

MONA CHADWICK, 2010

Assistant Professor of Educational Leadership
B.S., Texas Tech University, 1975;
M.S., Sul Ross University, 1996;
Ed.D., Lamar University, Ed.D.

E. URSULA CHANDLER, 1981

Professor of German
B.S., Illinois State University, 1965;
Ph.D., Northwestern University, 1981.

CHERYL B. CHANEY, 1999

Assistant Professor of Biology
B.S., Missouri Western State College, 1990;
M.S., Tennessee Technological University, 1997.

WANDA CHRISTIE, 2006

Assistant Professor of Nursing
B.S.N., Arkansas Tech University, 1986;
M.N.Sc., University of Arkansas for Medical
Sciences, 2004.

ERIN CLAIR, 2010

Assistant Professor of English
B.A., Case Western Reserve University, 1999;
M.A., Texas State University, 2002;
Ph.D., University of Missouri, 2007.

ELDON G. CLARY, JR., 1967

Professor of Secondary Education
Dean, College of Education
B.S.E., North Texas State University, 1962;
M.Ed., North Texas State University, 1964;
Ed.D., North Texas State University, 1968.

BARBARA CLEMENTS, 2010

Assistant Professor of Music
B.A., Luther College, 1993;
M.M., University of Missouri Columbia, 1996;
D.M., Florida State University, 2005.

JON CLEMENTS, 2005

Assistant Professor of Music
B.A., Luther College, 1994;
M.M., University of Missouri-Columbia, 1996;
D.M., Florida State University, 2008.

LORETTA COCHRAN, 2003

Associate Professor of Management
B.S., Erskine College, 1991;
M.S., Clemson University, 1994;
Ph.D., Clemson University, 1999.

TRACY L. COLE, 2007

Assistant Professor of Legal Studies
B.S.E., University of Arkansas, 1990;
M.Ed., University of Arkansas, 1991;
J.D., University of Arkansas at Little Rock, 2003.

JENNIFER COLEMAN, 2001

Assistant Professor of Nursing
B.A., Luther College, 1993;
B.S.N., University of Iowa, 1997;
M.S.N., University of Iowa, 2000.

JAMES H. COLLINS, 1983

Professor of Agriculture
B.S., Mississippi State University, 1976;
M.S., Louisiana State University, 1979;
Ph.D., Louisiana State University, 1982.

THERESA CONNORS, 1993

Associate Librarian
B.F.A., Louisiana Tech University, 1981;
M.L.S., Louisiana State University, 1986.

KEVIN C. COSTLEY, 2003

Associate Professor of Early Childhood Education
 B.S., Missouri Southern State College, 1975;
 M.S., Pittsburg State University, 1978;
 M.A., Pittsburg State University, 2001;
 Ph.D., Kansas State University, 1982.

KAREN K. COX, 1994

Assistant Professor of Nursing
 B.S., University of Central Arkansas, 1978;
 M.N.Sc., University of Arkansas for Medical
 Sciences, 1982.

NANCY COX, 1981

Instructor of English and Developmental Reading
 B.A., Arkansas Tech University, 1977;
 M.Ed., Arkansas Tech University, 1981.

PHYLLIS J. COX, 2001

Associate Professor of Allied Health Sciences
 Director of Medical Assistant and Medical
 Technology Programs
 B.S., University of Arkansas at Monticello, 1972;
 M.A.Ed., Central Michigan University, 1985.

REBECCA L. CUNNINGHAM, 2000

Instructor of Computer and Information Science
 B.S., Arkansas Tech University, 1995;
 M.S., University of Central Arkansas, 1999.

[Top](#)**SHELLY DAILY, 2000**

Associate Professor of Nursing
 B.S.N., Arkansas Tech University, 1995.;
 M.N.Sc., University of Arkansas for Medical
 Sciences, 1999.

MELISSA DARNELL, 2003

Assistant Professor of Nursing
 Learning Resources Coordinator
 B.S.N., University of Central Arkansas, 1994;
 M.S.N., University of Central Arkansas, 2002.

ABBY DAVIS, 2004

Instructor of Health and Physical Education
 Head Coach
 B.A., Arkansas Tech University, 2002;
 M.Ed., Arkansas Tech University, 2004.

DAVID DAWSON, 2009

Instructor of Health and Physical Education
 Head Coach
 B.A., Ottawa University, 1996;
 M.A., University of Saint Mary, 2005.

THOMAS A. DEBLACK, 1995

Professor of History
 B.A., Southern Methodist University, 1973;
 M.S.E., Ouachita Baptist University, 1979;
 Ph.D., University of Arkansas, 1995.

NICOLAS del GRAZIA, 2010

Assistant Professor of Music
 B.S., The City University (London), 1991;
 M.M., King's College, University of London, 1994;
 D.M., Indiana University, 2003.

PAMELA D. DIXON, 2011

Assistant Professor of School Counseling
 B.A., Arkansas Tech University, 1996;
 M.Ed., Arkansas Tech University, 2004.

SHAUNA S. DONNELL, 1995

Instructor of Speech
 Assistant Vice President, Enrollment Management
 B.A., Arkansas Tech University, 1991;
 M.A., University of Nevada, 1997.

CHRISTOPHER M. DUERRINGER, 2011

Assistant Professor of Speech
 B.A., Stephen F. Austin State University, 2004;
 M.A., Stephen F. Austin State University, 2007;
 Ph.D., Arizona State University, 2011.

PETER A. DYKEMA, 2001

Associate Professor of History
 B.S., Hope College, 1984;
 M.Div., Western Theological Seminary, 1987;
 M.A., University of Arizona, 1989;
 Ph.D., University of Arizona, 1998.

[Top](#)**JAMIE EARLS, 2009**

Assistant Professor of Emergency Management
 B.S., Arkansas Tech University, 2006;
 M.S., Arkansas Tech University, 2008.

ERNEST J. ENCHELMAYER, 2005

Associate Professor of English
 B.A., University of Mississippi, 1993;
 M.A., Arkansas State University, 1995;
 Ph.D., Southern Illinois University, 2005.

RUTH D. ENOCH, 2004

Associate Professor of Mathematics
 B.A., Vanderbilt University, 1974;
 M.S., University of Iowa, 1975;
 Ph.D., Purdue University, 2004.

DAVID J. ESHELMAN, 2006

Associate Professor of Speech
Theatre Director

B.A., Case Western Reserve University, 1999;
M.F.A., University of Texas at Austin, 2002;
Ph.D., University of Missouri at Columbia, 2006.

[Top](#)**MIKE W. FAIRBANKS, 2007**

Assistant Professor of Agriculture

B.S., Arkansas Tech University, 1993;
M.S., Southeast Missouri State University, 1995;
Ph.D., University of Arkansas, 2002.

ROGER FANG, 2001

Associate Professor of Computer and Information
Science

B.Sc., National Chiao-Tung University, 1980;
M.Sc., University of Florida, 1987;
Ph.D., University of Florida, 1993.

DALE S. FELKINS, 1997

Instructor of Mathematics

B.S., Arkansas Tech University, 1993;
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M.S., University of Arkansas at Little Rock, 2003.

MARCEL B. FINAN, 2001

Associate Professor of Mathematics

B.S., Haigazian University, 1984;
M.S., University of Tennessee, 1992;
Ph.D., University of North Texas, 1998.

JOSHUA A. FISHER, 2011

Assistant Professor of Art

A.B., Middlebury College, 2000;
M.A., University of Georgia, 2004;
Ph.D., University of Iowa, 2009.

ROBERT FITHEN, 1998

Associate Professor of Mechanical Engineering

B.S., Louisiana Tech University, 1984;
M.S., Texas A & M, 1987;
Ph.D., Virginia Tech University, 1993.

ROBERT F. FRASIER, 2003

Associate Professor of Mechanical Engineering

B.S., University of Texas at El Paso, 1987;
M.S., University of Washington, 1989;
Ph.D., Washington State University, 1996.

JIMMY R. FULMER, 2008

Instructor of Chemistry

B.S., Henderson State University, 1976;
M.Ed., Arkansas Tech University, 2007.

MARC FUSARO, 2009

Assistant Professor of Economics

B.S., University of Scranton, 1996;
Ph.D., Northwestern University, 2004.

KAREN L. FUTTERER, 1980

Associate Professor of Music

B.M., State University of New York at Fredonia,
1975;
M.M., North Texas State University, 1980.

KENNETH T. FUTTERER, 1980

Associate Professor of Music

B.M., North Texas State University, 1975;
M.M., North Texas State University, 1980.

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Professor of Fisheries Science

Head, Department of Biological Sciences
B.S., University of Tennessee at Martin, 1983;
M.S., Pennsylvania State University, 1986;
Ph.D., Pennsylvania State University, 1990.

HOLLY R. GALE, 1997

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M.M., University of Central Arkansas, 1999.

STEVE GANN, 1999

Assistant Professor of Physical Science

B.S., Arkansas Tech University, 1977;
M.S., University of Arkansas, 1989;
Ph.D., University of Arkansas, 2010.

MICHAEL GARNER, 2006

Assistant Professor of Emergency Management

B.S., University of Arkansas at Monticello, 1978;
M.A., University of Arkansas, 1998;
Ph.D., University of Arkansas, 2001.

PAOLA GEMME, 2001

Associate Professor of English

B.A., University of Genoa, 1989;
Ph.D., Pennsylvania State University, 1998.

CHRISTOPHER GIROIR, 2008

Assistant Professor of College Student Personnel

B.A., McNeese State University, 1997;
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ELIZABETH M. GIROIR, 2011

Assistant Professor of Professional Studies
 B.S., University of Wisconsin-LaCrosse, 2001;
 M.Ed., University of Southern Mississippi-
 Hattisburg, 2002;
 Ph.D., University of Southern Mississippi-
 Hattisburg, 2009.

JULIA H. GIST, 2010

Assistant Professor of Nursing
 B.S.N., Harding University, 1983;
 M.S., Texas Woman's University, 1992;
 Ph.D., Texas Woman's University, 2000.

DIANE GLEASON, 2009

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 M.A., University of Arkansas, 1975;
 Ph.D., University of Arkansas, 1997.

DONALD M. GOOCH, 2007

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 M.A., University of Arkansas, 2001;
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NINA M. GOZA, 2004

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 Ph.D., University of Mississippi, 2005;
 C.P.A.

ELIZABETH GRAY, 2005

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 M.B.A., University of Arkansas at Little Rock,
 1999;
 J.D., University of Arkansas at Little Rock, 1999.

CARL E. GRECO, 2001

Professor of Electrical Engineering
 B.S., Louisiana Tech University, 1967;
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MARY B. GUNTER, 1998

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 M.Ed., Arkansas Tech University, 2002;
 Ed.D., Oral Roberts University, 2009

FRANKLIN D. HARDCASTLE, 1998

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 B.S., Montana State University, 1983;
 M.S., University of Utah, 1985;
 Ph.D., Lehigh University, 1990.

LISA HARLESS, 2005

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 M.S.N., University of Central Arkansas, 2004.

NEAL HARRINGTON, 2005

Associate Professor of Art
 B.F.A., University of South Dakota, 1998;
 M.F.A., Wichita State University, 2001.

LYMAN B. HARRIS, 1975

Professor of Rehabilitation Science
 Director of Rehabilitation Science
 B.A., University of West Florida, 1969;
 M.S., Florida State University, 1970;
 Ph.D., Florida State University, 1978.

STEWART HART, 2011

Assistant Professor of Chemistry
 B.S., Centre College, 2003;
 Ph.D., Michigan State University, 2009.

WAYNE A. HELMER, 1998

Professor of Mechanical Engineering
 B.S., University of Dayton, 1966;
 M.S., University of Arizona, 1968;
 Ph.D., Purdue University, 1974.

JENNIFER E. HELMS, 1993

Professor of Nursing
 B.S.N., Harding University, 1986;
 M.S.N., University of Missouri at Kansas City,
 1992;
 Ph.D., University of Arkansas for Medical
 Sciences, 2006.

MOSTAFA HEMMATI, 1983

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 Director of Undergraduate Research
 B.S., University of Meshad (Iran), 1973;
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THERESA A. HERRICK, 1985

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 Ph.D., Clemson University, 1993.

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DAVID HOELZEMAN, 2000

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 Ph.D., Louisiana State University, 1993.

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 B.A., University of Kansas, 1999;
 M.A., University of Kansas, 2002;
 Ph.D., Oklahoma State University, 2009.

JESSICA L. HOGAN, 2006

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 M.S., University of Arkansas, 2006.

M. ANNETTE HOLEYFIELD, 1985

Professor of Physical Education
 Head, Department of Health and Physical Education
 B.S., Arkansas Tech University, 1976;
 M.Ed., Arkansas Tech University, 1977;
 Ph.D., University of Arkansas, 1997.

NANCY D. HORTON, 1999

Instructor of Mathematics
 B.S., Arkansas Tech University, 1997;
 M.S., University of Arkansas at Little Rock, 1999.

CHRISTOPHER E. HOUSENICK, 2009

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 B.A., University of Pennsylvania, 1999;
 M.A., Pennsylvania State University, 2001;
 Ph.D., Pennsylvania State University, 2005.

JAY M. HUDKINS, 2009

Assistant Professor of Speech
 B.S.E., Baylor University, 1992;
 M.A., Baylor University, 1992;
 Ph.D., Texas A & M, 2011.

CYNTHIA L. HUKILL, 2008

Associate Professor of Music
 Head, Department of Music
 B.M., University of North Texas, 1972;
 M.M., University of North Texas, 1974;
 D.M.A., University of Missouri-Kansas City, 1988.

DEBRA HUNTER, 2011

Assistant Professor of Accounting
 B.S., Louisiana College, 1984;
 M.B.A., Baylor University, 1985;
 D.B.A., Louisiana Tech University, 2004;
 C.P.A.

SEAN T. HUSS, 2005

Associate Professor of Sociology
 B.A., University of Arkansas at Little Rock, 1995;
 M.A., University of Tennessee, 1998;
 Ph.D., University of Tennessee, 2006.

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Assistant Professor of Curriculum and Instruction
 B.A., Cairo University, 1984;
 M.A., Oklahoma State University, 1997;
 Ph.D., Oklahoma State University, 2011.

RICHARD A. IHDE, 2004

Associate Professor of Emergency Management
 B.A., Arkansas Tech University, 1997;
 M.Ed., Arkansas Tech University, 2001;
 Ed.D., Nova Southeastern University, 2008.

[Top](#)**JOHN R. JACKSON, 2003**

Associate Professor of Fisheries Science
 B.S., Michigan State University, 1983;
 M.S., Mississippi State University, 1987;
 Ph.D., Mississippi State University, 1996.

LINDA JACKSON, 2010

Instructor of College Student Personnel
 B.A., Idaho State University, 1989;
 M.Coun., Idaho State University, 1992;
 M.S., Arkansas Tech University, 2006.

SHELIA JACKSON, 1998

Professor of Health and Physical Education
 B.S.E., Southern Arkansas University, 1981;
 M.Ed., University of Arkansas, 1984;
 Ph.D., Texas Women's University, 1988.

CYNTHIA JACOBS, 2007

Assistant Professor of Biology
 D.V.M., Louisiana State University, 1982.

ELLEN J. JENKINS, 1997

Professor of History
 Director of Honors
 B.A., University of Texas at Dallas, 1977;

GEORGE P. JOHNSON, 1990

Associate Professor of Biology
 Curator of Herbarium
 B.S., Western Kentucky University, 1978;

M.A., University of North Texas, 1983;
Ph.D., University of North Texas, 1992.

M.S., Western Kentucky University, 1980;
Ph.D., North Carolina State University, 1985.

CYNTHIA J. JONES, 1984

Associate Professor of Nursing
Assistant to Head of Nursing
B.S.N., University of Mississippi School of
Nursing, 1971;
M.N., University of Mississippi, 1976.

STEPHEN JONES, 2005

Associate Professor of Management
B.S.E., Pittsburg State University, 1981;
M.A., University of Missouri, 1983;
M.B.A., Southwest Missouri State University,
1989;
Ph.D., University of North Texas, 1998.

SCOTT JORDAN, 1994

Associate Professor of Mathematics
B.S., Southern Arkansas University, 1985;
M.S., University of Arkansas, 1988;
Ph.D., University of Southwestern Louisiana,
1994.

SUSAN JORDAN, 1994

Instructor of Mathematics
B.S., University of Arkansas, 1987;
M.A., University of Arkansas, 1990.

PATRICIA JOSELIN, 2010

Instructor of Spanish
B.S., Universidad de Tarapaca, 1986;
M.Ed., Arkansas Tech University, 1998;
M.S.E., Arkansas Tech University, 2000.

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DOUG KARLESKINT, 2010

Instructor of Health and Physical Education
Head Coach
B.A., Mid America Nazarene College, 2003.

D. MICHAEL KEISLER, 1975

Professor of Mathematics
B.A., University of Texas, 1966;
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CHRISTOPHER J. KELLNER, 1991

Professor of Wildlife Science
B.S., University of California at Berkeley, 1978;
M.S., Eastern Kentucky University, 1985;
Ph.D., University of Arkansas, 1990.

PETE KELLY, 2011

Instructor of Health and Physical Education
B.S., Arkansas Tech University, 1993;
M.Ed., Arkansas Tech University, 1996.

LOYCE A. KENNEDY, 1999

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B.S.N., University of Arkansas for Medical
Sciences, 1972;
M.S.N., University of Central Arkansas, 1997.

PALLAVI KETKAR, 2002

Instructor of Mathematics
B.S., University of North Texas, 1996;
M.S., University of North Texas, 1998;
M.S., University of Texas at Austin, 2002.

VICKY H. KIEHL, 1967

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M.M., North Texas State University, 1974.

JUSTIN L. KILLINGSWORTH, 2011

Assistant Professor of Agricultural Education
B.S., Texas A & M University, 2002;
M.Ed., Texas A & M University, 2004; Ph.D.,
University of Missouri, 2011.

JAMIE KING, 2011

Instructor of Mathematics
B.S., Arkansas Tech University, 2008;
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SCOTT W. KIRKCONNELL, 1981

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A.M., Indiana University, 1976;
Ph.D., Indiana University, 1978.

WILLIAM KIRKPATRICK, 1989

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B.S., Fort Hays State University, 1983;
M.S., Fort Hays State University, 1985;
Ed.D., University of Arkansas, 1991.

LINDA C. KONDRICK, 2001

Associate Professor of Physical Science
B.S., University of the Ozarks, 1988;
M.Ed., Arkansas Tech University, 1992;
Ed.D., University of Arkansas at Little Rock, 2003.

JOHN L. KROHN, 1991

Professor of Mechanical Engineering
Head, Department of Mechanical Engineering

B.S.M.E., University of Arkansas, 1981;
M.S.M.E., University of Arkansas, 1983;
Ph.D., Texas A & M University, 1992;
P.E.

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PAUL S. LAKE, 1981

Professor of English
B.S., Towson State University, 1975;
A.M., Stanford University, 1979.

ROBIN C. LASEY, 2004

Associate Professor of Chemistry
B.S., University of Missouri-Rolla, 1994;
Ph.D., Bowling Green State University, 2002.

JUNE LAWSON, 2007

Assistant Professor of Curriculum and Instruction
Director of Teacher Education Student Services
B.A., University of Arkansas, 1973.

SANGKI LEE, 2008

Assistant Professor of Journalism
B.A., Sogang University, 1997;
M.A., Sogang University, 1999;
M.A., Michigan State University, 2002;
Ph.D., Pennsylvania State University, 2007.

SEUNG SUK LEE, 2009

Assistant Professor of Hospitality Administration
B.S., Oklahoma State University, 2000;
M.S., Oklahoma State University, 2004;
Ph.D., Iowa State University, 2008.

TIMOTHY W. LEGGETT, 2002

Assistant Professor of Early Childhood Education
B.S., William Carey College, 1975;
M.R.E., New Orleans Baptist Theological
Seminary, 1977;
M.Ed., William Carey College, 1980;
G.S.R.E., Southwestern Baptist Theological
Seminary, 1983;
Ed.D., Nova Southeastern University, 1995.

JUNG-UK LIM, 2011

Assistant Professor of Electrical Engineering
B.S., Hanyang University, 1996;
M.S., Seoul National University, 1998;
Ph.D., Seoul National University, 2002.

THOMAS G. LIMPERIS, 2003

Associate Professor of Mathematics
Head, Department of Mathematics
B.S., University of Arkansas, 1989;
M.S., University of Arkansas, 1990;
Ph.D., University of Arkansas, 1998.

MICHAEL A. LINK, 1965

Associate Professor of History
B.S., Henderson State University, 1962;
M.S., Henderson State University, 1963;
Ph.D., (History), Mississippi State University,
1966;
Ph.D., (Philosophy and Religion), Protestant
Faculty of Paris, 1976.

JOSHUA LOCKYER, 2011

Assistant Professor of Anthropology
B.A., University of Arizona, 1998;
Ph.D., University of Georgia, 2007.

STANLEY D. LOMBARDO, 1977

Professor of English
B.A., State University of New York at Buffalo,
1970;
Ph.D., Indiana University, 1976.

ERIC C. LOVELY, 2002

Associate Professor of Biology
B.A., Bloomsburg University of Pennsylvania,
1992;
M.S., University of New Hampshire, 1995;
Ph.D., University of New Hampshire, 1999.

LOWELL H. LYBARGER, 2007

Associate Librarian
B.A., Rutgers University, 1990;
M.A., University of Washington, 1997;
MLIS, Kent State University, 2006;
Ph.D., University of Toronto, 2003.

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W. DANIEL MARTIN, 2000

Professor of Sociology
Head, Department of Behavioral Sciences
B.S., University of Central Arkansas, 1989;
M.S., University of Central Arkansas, 1992;
Ph.D., Oklahoma State University, 1996.

KEVIN H. MASON, 1986

Professor of Marketing
Head, Department of Management and Marketing
B. S., Arkansas Tech University 1982;
M.B.A., University of Arkansas, 1986;
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JERRY MAYO, 2010

Associate Professor of Health and Physical
Education
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M.S., Arkansas State University, 1993;
M.S., University of Central Arkansas, 2007;
Ph.D., The University of Mississippi, 1998.

TERRI J. MCKOWN, 2004
Associate Professor of Nursing
B.S.N., Arkansas Tech University, 1991;
M.S.N., University of Central Arkansas, 2000;
D.N.P., University of Tennessee, 2009.

CATHI MCMAHAN, 2000
Associate Professor of Recreation and Park Administration
Head, Department of Parks, Recreation, and Hospitality Administration
B.S., Arkansas Tech University, 1985;
M.S., Northwestern State University, 1986;
Ph.D., University of Arkansas, 2007.

CHARLES MEBI, 2009
Assistant Professor of Chemistry
B.Sc., University of Buea (Cameroon), 1969;
M.Sc., University of Buea (Cameroon), 1998;
Ph.D., University of Nevada, 2007.

CHRIS M. MERLE, 1998
Assistant Professor of Health Information Management
A.S., Arkansas Tech University, 1986;
B.S., Arkansas Tech University, 1993;
M.S., Arkansas Tech University, 2002.

DAVID J. MIDDLETON, 1998
Associate Professor of Computer and Information Science
B.S., University of Sydney, 1979;
Ph.D., University of North Carolina at Chapel Hill, 1986.

ALEXANDER MIRKOVIC, 2007
Assistant Professor of History
B.A., University of Athens, Greece, 1993;
M.A., University of South Florida, 2005;
Ph.D., Vanderbilt University, 2002.

JEFFREY A. MITCHELL, 1994
Professor of Philosophy
B.A., Whitman College, 1986;
M.A., Vanderbilt University, 1990;
Ph.D., Vanderbilt University, 1993.

RAY MOLL, 2005
Assistant Professor of Hospitality Administration
Associate Dean of Students for Student Services
B.B.A., University of Central Arkansas, 1986;
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BRENDA G. MONTGOMERY, 1997
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JOHNETTE MOODY, 1997
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D.B.A., Argosy University, 2006.

LARRY J. MORELL, 1998
Professor of Computer and Information Science
B.A., Duke University, 1974;
M.S., Rutgers University, 1976;
Ph.D., University of Maryland, 1983.

ARDITH A. MORRIS, 1982
Professor of Speech/Theatre
B.A., University of the Ozarks, 1973;
M.A., University of Arkansas, 1975;
Ph.D., Northwestern University, 1989.

GARY E. MORRIS, 2002
Instructor of Music
Director of Choirs
B.M.E., Arkansas State University, 1970,
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JAMES L. MOSES, 1999
Professor of History
B.A., Louisiana State University, 1986;
M.A., University of New Hampshire, 1989;
Ph.D., Tulane University, 1997.

DAVID MUDRINICH, 1998
Professor of Art
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TOMMY L. MUMERT, 1989
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ABDULKADIR NAGAC, 2009
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NOBUYUKI NEZU, 2001
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B.S., Gakushuin University, 1991;
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 Assistant Vice President for Academic Affairs
 A.B.J., University of Georgia, 1994;
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 B.S., Arkansas Tech University, 2002;
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 Ph.D., Purdue University, 1997.

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Associate Professor of Psychology
 B.A., University of Arizona, 1979;
 M.Ed., Wichita State University, 1987;
 M.A., Wichita State University, 1999;
 Ph.D., Wichita State University, 2000.

[Top](#)**JULIO CESAR PACHECO FILHO, 2008**

Instructor of Health and Physical Education
 Assistant Coach
 B.S., Federal University of Santa Catarina, 2004.

NANCY B. PARK, 2001

Instructor of Computer and Information Science
 B.S., Arkansas Tech University, 1994;
 M.B.A., University of Arkansas, 1995;
 M.I.S., University of Arkansas, 1998.

PHILIP D. PARKER, 1977

Associate Professor of Music
 B.M., Wichita State University, 1975;
 M.M., Indiana University, 1977.

WILLIAM A. PARTON, 1990

Director of Library
 B.M., University of Houston, 1973;
 M.L., University of Washington, 1981.

JASON A. PATTON, 2008

Assistant Professor of Geology
 B.S., Arkansas Tech University, 1996;
 M.S. Murray State University, 1998;
 Ph.D., University of Arkansas, 2008.

JACKIE L. PAXTON, 2005

Professor of Early Childhood Education
 A.A., Westark Community College, 1976;
 B.S.E., University of Central Arkansas, 1978;
 M.S.E., University of Central Arkansas, 1979;
 Ed.D., University of Arkansas, 1990.

JEFFREY V. PEARSON, 2011

Assistant Professor of History
 B.A., Indiana University, 1998;
 M.A., University of New Mexico, 2001;
 Ph.D., University of New Mexico, 2011.

KATHRYN D. PEARSON, 1984

Assistant Professor of Mathematics
 B.S., Arkansas Tech University, 1976;
 M.Ed., Arkansas Tech University, 1979;
 Ed.D., Nova Southeastern University, 2000.

ROCKIE D. PEDERSON, 2011

Associate Professor of Health and Physical Education
 B.S.E., Henderson State University, 1979;
 M.S.E., Henderson State University, 1980;
 Ph.D., Texas Woman's University, 2000.

THOMAS W. PENNINGTON, 1995

Assistant Professor of Legal Studies
 Associate Vice President and
 Counsel to the President
 B.S., Arkansas Tech University, 1990;
 J.D., University of Arkansas, 1993.

STEPHANIE PEPPER, 2010

Assistant Professor of Early Childhood Education
 B.M.E., Delta State University, 1973;
 M.Ed., University of Mississippi, 1998;
 Ed.S., University of Mississippi, 2001;
 Ed.D., University of Mississippi, 2007.

SUSAN POZNAR, 1993

Professor of English
 B.A., Brandeis University, 1980;
 M.A., Duke University, 1982;
 Ph.D., Duke University, 1989.

[Top](#)**MALCOLM R. RAINEY, 2010**

Professor of Animal Science
 Head, Department of Agriculture
 B.S., Southeastern Louisiana University, 1982;
 M.Ag., West Texas State University, 1985;
 Ph.D., Mississippi State University, 1988.

NELSON R. RAMÍREZ, 2006

Associate Professor of Spanish
 B.A., University of California, Berkeley, 1997;
 M.A., University of California, Berkeley, 1999;
 Ph.D., University of California, Berkeley, 2005.

JAMES REASONER, 2008

Instructor of Electrical Engineering
 B.S.E.E., U.S. Naval Academy, 1971;
 M.A., U.S. Naval War College, 1986.

CLINT REED, 2008
Instructor of Health and Physical Education
Assistant Coach
B.S., Arkansas Tech University, 2002;
M.Ed., Arkansas Tech University, 2006.

WILLIAM REEDER, 2010
Assistant Professor of Journalism
B.A., Arkansas Tech University, 1996;
M.A., Arkansas Tech University, 2002.

RANDELL W. RENFRO, 2003
Assistant Professor of Agriculture
B.S., Arkansas Tech University, 1980;
M.S., University of Arkansas, 1982.

MICHAEL K. RITCHIE, 1989
Professor of English
B.A., University of Cincinnati, 1969;
M.F.A., University of Iowa, 1975;
M.S.L.S., University of Kentucky, 1979;
Ph.D., Bowling Green State University, 1986.

DAVID W. ROACH, 1983
Professor of Management
B.A., University of Arkansas, 1982;
M.B.A., University of Arkansas, 1983;
Ph.D., University of Arkansas, 1991.

CAREY M. ROBERTS, 2000
Associate Professor of History
B.A., University of Southern Mississippi, 1993;
M.A., University of South Carolina, 1995;
Ph.D., University of South Carolina, 1999.

JEFF W. ROBERTSON, 1997
Professor of Astrophysics
Dean, College of Natural and Health Sciences
Director of Astronomical Observatory
B.S., University of Kansas, 1989;
M.S., San Diego State University, 1991;
Ph.D., Indiana University, 1995.

RONALD D. ROBISON, 1988
Associate Professor of Computer and Information
Science
Head, Department of Computer and Information
Science
B.S., Iowa State University, 1970;
M.S., University of Southern California, 1975.

SARAH H. ROBISON, 1989
Associate Professor of Computer and Information
Science
B.S., University of Arkansas at Monticello, 1978;
M.Ed., Southern Arkansas University, 1982;
M.S., Nova Southeastern University, 1994.

MICHAEL T. ROGERS, 2007
Associate Professor of Political Science
B.A., Wabash College, 1995;
M.A., University at Albany-SUNY, 1999,
Ph.D., University at Albany-SUNY, 2005.

MARY ANN ROLLANS, 1980
Professor of Secondary Education
Dean, College of Professional Studies and
Community Outreach
B.A., Arkansas Tech University, 1968;
M.S.E., University of Central Arkansas, 1974;
Ed.D., University of Arkansas, 1986.

[Top](#)

REGINA ST. JOHN, 2006
Associate Professor of English
B.A., University of Arkansas at Monticello, 1993;
M.A., Arkansas State University, 1994;
Ph.D., Ball State University, 2004.

JENNIFER L. SAXTON, 2011
Instructor of Professional Studies
B.A., Arkansas Tech University, 1999;
M.S., Arkansas Tech University, 2009.

JULIE M. SCHLUTERMAN, 2007
Assistant Professor of Sociology
B.A., Arkansas Tech University, 1997;
M.A., University of Tennessee, 2002;
Ph.D., University of Tennessee, 2007.

CORY SHAMAN, 2006
Associate Professor of English
B.A., Mississippi State University, 1992;
M.A., University of Mississippi, 1997;
Ph.D., University of Mississippi, 2007.

C. GLENN SHEETS, 1990
Professor of Elementary Education
B.S.E., Henderson State University, 1971;
M.S.E., Henderson State University, 1975;
Ed.D., University of Arkansas, 1978.

DONNA S. SHERRILL, 1992
Instructor of Mathematics
B.S., Arkansas Tech University, 1990;
M.Ed., Arkansas Tech University, 1992.

HAMED SHOJAEI, 2009
Assistant Professor of Physics
B.S., Sharif University of Technology (Iran), 1995;
M.S., Sharif University of Technology (Iran) 1997;
Ph.D., Indiana University, 2009.

REBECCA A. SHOPFNER, 2000
Associate Professor of Teaching and Learning
B.S.E., University of Central Arkansas, 1973;
M.Ed., Arkansas Tech University, 1986;
Ed.D., University of Arkansas, 1999.

KENNETH W. SHORES, 1985
Associate Professor of Mathematics
B.S., Arkansas Tech University, 1970;
M.S., University of Arkansas, 1972.

CHERYL S. SMITH, 1992

Professor of Nursing
 B.S.N., University of Southern Alabama, 1983;
 M.S., University of Southern Mississippi, 1990;
 Ph.D., University of Arkansas for Medical
 Sciences, 2006.

MONTY J. SMITH, 2010

Assistant Professor of Mechanical Engineering
 B.S., Texas A & M University, 1987;
 M.S., Purdue University, 1990;
 Ph.D., Purdue University, 1997.

SANDRA SMITH, 2011

Associate Professor of Emergency Management
 Head, Department of Emergency Management
 B.S.N., Duke University, 1981;
 M.S.N., University of Central Arkansas, 1999;
 Ph.D., Loyola University, 2005.

TIMOTHY E. SMITH, 1998

Associate Professor of Music
 B.M., St. Olaf College, 1989;
 M.M., Indiana University, 1991;
 Ph.D., Indiana University, 1998.

V. CAROLE SMITH, 2004

Associate Professor of Middle Level Education
 B.M., University of Arizona, 1969;
 M.M., University of Arizona, 1972;
 M.Ed., University of Arizona, 1980;
 Ph.D., University of Arizona, 1986.

DARLA D. SPARACINO, 1993

Associate Professor of Health Information
 Management
 B.S., Arkansas Tech University, 1989;
 M.Ed., Arkansas Tech University, 1995.

MATT J. STEPHEN, 2011

Assistant Professor of Teaching, Learning, and
 Leadership
 B.S., Texas Tech University, 1979;
 M.Ed., Tarleton State University, 1984;
 Ed.D., Tarleton State University, 2007.

SAMMIE P. STEPHENSON, 1999

Assistant Professor of Elementary Education
 B.A., Henderson State University, 1963;
 M.S.E., University of Central Arkansas, 1969;
 Ed.D., University of Arkansas, 1995.

JAMES STEUBER, 2008

Assistant Professor of Mechanical Engineering
 B.S., Arkansas Tech University, 2001;
 M.S., Texas A & M University, 2007;
 Ph.D., Texas A & M University, 2009.

IVAN H. STILL, 2006

Associate Professor of Biology
 B.S., University College London, 1988;
 Ph.D., University of Newcastle-upon-Tyne, 1992.

JOSEPH N. STOECKEL, 1992

Professor of Fisheries Science
 Director, Fisheries and Wildlife Science Program
 B.A., Southern Illinois University at Carbondale,
 1978;
 M.A., Southern Illinois University at Carbondale,
 1985;
 Ph.D., Virginia Polytechnic Institute and State
 University, 1993.

ANNETTE B. STUCKEY, 2006

Assistant Professor of Professional Studies
 B.S., University of Arkansas at Pine Bluff, 1993;
 M.Ed., Arkansas Tech University, 2003.

JOSEPH SWAIN, 2009

Assistant Professor of Geography
 B.S., Northwestern State University, 2000;
 M.A., Western Illinois University, 2003;
 Ph.D., University of Oklahoma, 2008.

[Top](#)**RONALD J. TACKETT, 2010**

Assistant Professor of Physics
 B.S., Eastern Michigan University, 2003;
 M.S., Wayne State University, 2007;
 Ph.D., Wayne State University, 2008.

H. MICHEAL TARVER, 2002

Professor of History
 Dean, College of Arts and Humanities
 Interim Head, Department of Art
 B.A., The University of Louisiana at Lafayette,
 1983;
 M.A., The University of Louisiana at Lafayette,
 1990;
 Ph.D., Bowling Green State University, 1995.

TERESA TAYLOR, 2004

Instructor of Mathematics
 B.S., Arkansas Tech University, 1990;
 M.Ed., Arkansas Tech University, 1994;
 M.Ed., Arkansas Tech University, 2005.

BRUCE L. TEDFORD, 2001

Associate Professor of Biology
 B.S., University of Arkansas at Little Rock, 1976;
 M.A., University of California, 1980;
 Ph.D., Louisiana State University, 1995.

REGINA THOMASON, 2011

Associate Professor of Curriculum and Instruction
 B.S.E., Henderson State University, 1975;
 M.S.E., Henderson State University, 1976;
 Ed.D., Texas A & M, 1987.

SHERYLE TINERELLA, 2011

Assistant Librarian
 B.A., Northeastern Illinois University, 2001;
 M.L.I.S., University of Wisconsin-Milwaukee,
 2008.

VINCENT P. TINERELLA, 2008
Assistant Librarian
B.A., Northeastern Illinois University, 1982;
M.A., DePaul University, 1994;
M.L.I.S., Dominican University, 1998

JULIE R. TRIVITT, 2007
Assistant Professor of Economics
B.S., Missouri State University, 1994;
M.A., University of Arkansas, 1996;
Ph.D., University of Arkansas, 2006.

L. KIM TROBOY, 2002
Professor of Management Information Systems
B.S., Arkansas Tech University, 1980;
M.B.A., University of Arkansas, 1987;
Ph.D., University of North Texas, 1997.

[Top](#)

JASON S. ULSPERGER, 2006
Assistant Professor of Sociology
B.S., University of Central Arkansas, 1997;
M.A., Arkansas State University, 1999;
Ph.D., Oklahoma State University, 2003.

DAVID G. UNDERWOOD, 2001
Professor of Education
Associate Vice President for Academic Affairs
B.A., Western Kentucky University, 1972;
M.P.S., Western Kentucky University, 1978;
M.A.Ed., Western Kentucky University, 1979;
Ph.D., Indiana University, 1985.

SUSAN J. UNDERWOOD, 2003
Associate Professor of College Student Personnel
Head, College Student Personnel
B.S., Western Kentucky University, 1980;
M.A.Ed., Western Kentucky University, 1982;
Ph.D., New Mexico State University, 1990.

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PHILIPPE VAN HOUTTE, 2007
Assistant Librarian
B.A., Arkansas Tech University, 2007
M.L.S., Texas Woman's University, 2011.

THOMAS A. VAUGHN, 2003
Associate Professor of Speech
B.A., University of Arkansas, 1990;
M.A., University of Arkansas, 1992;
Ph.D., Indiana University, 1998.

[Top](#)

LYNN WALSH, 2010
Associate Professor of Secondary Education
B.S.E., Indiana University, 1974;
M.A., University of Houston, 1980;
Ed.D., Baylor University, 2001.

DIANE WALTERS, 2009
Assistant Professor of Health and Physical
Education
B.S., Arkansas Tech University, 1975;
M.Ed., Arkansas Tech University (Physical
Education), 1979;
M.Ed., Arkansas Tech University (Elementary
Education), 1992.

JAMES R. WALTON, 2006
Associate Professor of Marketing
B.S., Missouri Southern State College, 1979;
M.B.A., University of Central Arkansas, 1993;
Ph.D., Texas Tech University, 2001.

DANA D. WARD, 1988
Professor of Spanish
B.A., Hendrix College, 1974;
M.A., University of Arkansas, 1977;
Ph.D., University of Arkansas, 1987.

DAVID W. WARD, 1999
Associate Professor of Psychology
B.S., University of Texas, 1986;
M.S., University of Georgia, 1990;
Ph.D., University of Georgia, 1998.

JASON E. WARNICK, 2006
Associate Professor of Psychology
B.A./B.S., Arkansas State University, 2002;
M.A., University of Mississippi, 2004;
Ph.D., University of Mississippi, 2006.

JOHN W. WATSON, 1978
Professor of Mathematics
Vice President for Academic Affairs
B.A., University of Arkansas, 1971;
M.S., University of Arkansas, 1973;
Ed.D., Oklahoma State University, 1978.

HELGA WENDELBERGER, 2008
Assistant Professor of English
B.A., University of Georgia, 2002;
Ph.D., University of Georgia, 2006.

SUSAN WEST, 2008
Assistant Professor of Hospitality Administration
B.A.A.S., Stephen F. Austin State University,
2000;
M.A., University of Arkansas, 2003.

DONNA R. WHITE, 2001
Associate Professor of English

MARGARET G. WILKERSON, 1976
Associate Professor of Rehabilitation Science

MELINDA A. WILKINS, 1988
Professor of Health Information Management

B.A., Arkansas Tech University, 1976;
M.A., University of Texas, 1983;
Ph.D., University of Minnesota, 1991.

B.A., Arkansas Tech University, 1970;
M.R.C., Arkansas State University, 1971.

Director of Health Information Management
B.S., Southwestern Oklahoma State University,
1983;
M.Ed., Southwestern Oklahoma State University,
1988;
Ph.D., Capella University, 2008.

DENNIS W. WILLIAMS, 2007
Assistant Professor of Sociology
B.A., Louisiana Tech, 1998;
M.A., University of Louisiana, 2001;
Ph.D., University of Oklahoma, 2008.

MATTHEW WILLIAMS, 2010
Assistant Professor of English
B.A., Hampshire College, 1999;
M.A., CUNY City College, 2005;
Ph.D., CUNY City College, 2008.

PENNY P. WILLMERING, 1999
Professor of Rehabilitation Science
B.S.Ed., University of Missouri-Columbia, 1979;
M.A., Southern Illinois University, 1986;
Ph.D., University of Madison-Wisconsin, 1999.

DEBORAH WILSON, 1992
Professor of English
B.A., Louisiana Tech University, 1974;
M.Ed., Mississippi College, 1982;
Ph.D., Louisiana State University, 1991.

SID T. WOMACK, 1986
Professor of Secondary Education
B.M.E., Abilene Christian College, 1972;
M.Ed., Sam Houston State University, 1974;
Ph.D., Texas A & M University, 1979.

JERRY D. WOOD, 2010
Assistant Professor of Computer and Information
Sciences
B.S., University of Arkansas at Little Rock, 2003;
M.S., Arkansas Tech University, 2008.

JEFFREY R. WOODS, 2000
Associate Professor of History
Head, Department of History and Political Science
B.A., University of Kansas, 1992;
M.A., University of Arkansas, 1994;
Ph.D., Ohio University, 2000.

SAM M. WORLEY, 1997
Associate Professor of English
B.A., The University of Texas at Austin, 1981;
M.A., The University of North Carolina at Chapel
Hill, 1986;
Ph.D., The University of North Carolina at Chapel
Hill, 1991.

[Top](#)

TSUNEMI YAMASHITA, 1998
Associate Professor of Biology
B.A., Hendrix College, 1985;
Ph.D., Vanderbilt University, 1993.

[Top](#)

ANNETTE ZAKHARIAN, 1984
Professor of French
A.B., Rutgers University, 1974;
M.A., Syracuse University, 1980;
D.A., Syracuse University, 1983.

QING ZENG, 2007
Assistant Professor of Psychology
B.A., Hunan Agricultural University, 1982;
M.S., Brigham Young University, 1991;
Ph.D., Brigham Young University, 1998.

CONNIE W. ZIMMER, 1990
Associate Professor of Secondary Education
A.B., Western Kentucky University, 1972;
M.S.L.S., Western Kentucky University, 1975.

STEVE ZIMMER, 1991
Assistant Professor of Physical Science
B.S., Western Kentucky University, 1970;
M.A., Western Kentucky University, 1973.

Distinguished Professor

RICHARD R. COHOON, 1960

Distinguished Professor of Geology
B.A., Oklahoma City University, 1954;
M.S., University of Oklahoma, 1959;
Ed.D., Oklahoma State University, 1974.

JACK R. HAMM, 1972

Distinguished Professor and Professor Emeritus
of Mathematics
B.S., Arkansas Tech University, 1964;
M.S., University of Missouri at Rolla, 1968;
Ph.D., University of Missouri at Rolla, 1972.

Faculty Emeriti

ROBERT L. CASEY, 1971

Professor Emeritus of Music
B.A., Arkansas Tech University, 1954;
M.M.E., University of North Texas, 1959;
Ed.D., Washington University, 1971.

RAYMOND E. (GENE) COLE, 1970

Professor Emeritus of Economics
B.S., Arkansas Tech University, 1969;
M.A., University of Arkansas, 1970;
Ph.D., University of Arkansas, 1976.

EDWARD J. CONNELLY, 1960

Professor Emeritus of Music
B.M., De Paul University, 1955;
M.M., University of Illinois, 1960;
D.M.A., University of Colorado, 1979.

ROBERT R. EDWARDS, 1989

Professor Emeritus of Management
B.A., Arkansas Tech University, 1960;
M.S., American Technological University, 1981;
Ph.D., University of Arkansas, 1988.

PATRICIA A. GORDON, 1965

Professor Emeritus of Health and Physical
Education
B.S.E., University of Central Arkansas, 1957;
M.Ed., University of Oklahoma, 1960;
Ed.D., University of Arkansas, 1977

ROYCE D. JONES, 1973

Professor Emeritus of Accounting
B.S., Arkansas Tech University, 1965;
M.B.A., East Texas State University, 1971.

JOSEPH L. MOORE, 1988

Professor Emeritus of Economics
B.S.B.A., University of Arkansas, 1965;
M.B.A., University of Arkansas, 1966;
Ph.D., University of Arkansas, 1975.

BOBBY MULLEN, 1956

Professor Emeritus of Mathematics
B.S., Arkansas Tech University, 1952;
M.A., University of Arkansas, 1955.

AUDREY R. OWENS, 1984

Professor Emeritus of Nursing
B.S., Youngstown State University, 1971;
M.S., Youngstown State University, 1978;
M.S., Texas Woman's University, 1979;
Ed.D., The University of Akron, 1983.

DONALD E. RICKARD, 1967

Professor Emeritus of Physical Science
B.S.E., University of Central Arkansas, 1960;
M.S.E., University of Central Arkansas, 1966.

EARL F. SCHROCK, Jr., 1971

Professor Emeritus of English
B.A., Arkansas Tech University, 1966;
M.A., University of Arkansas, 1968;
Ph.D., University of Arkansas, 1980.

RICHARD S. SMITH, 1991

Professor Emeritus of Economics
B.B.A., University of Iowa, 1965; M.A.,
University of Iowa, 1970; Ph.D.,
University of Texas, 1974.

WILLIAM W. TRIGG, 1959

Professor Emeritus of Chemistry
B.S., University of Arkansas, 1956;
M.S., University of Arkansas, 1960;
Ph.D., Louisiana State University, 1967.

HILDA J. TURNER, 1979

Professor Emeritus of Business
B.S., Arkansas Tech University, 1960;
M.Ed., University of Arkansas, 1968;
Ed.D., University of Arkansas, 1976.

THOMAS P. TYLER, 1967

Professor Emeritus of Economics
B.A., Hendrix College, 1965; M.B.A.,
University of Arkansas, 1967; Ph.D.,
University of Arkansas, 1980.

VICTOR K. VERE, 1976

Professor Emeritus of Geology
B.S.E., State University of New York (Cortland),
1961;

KENNETH R. WALKER, 1958

Professor Emeritus of History
B.A., Goshen College, 1949;
M.A., Indiana University, 1950;

JAMES T. WILLCUTT, 1967

Professor Emeritus of Physics
B.S., Arkansas Tech University, 1965;
M.S., University of Missouri at Rolla, 1967.

M.S., Syracuse University, 1968;
Ph.D., Syracuse University, 1972.

M.Ed., University of Arkansas, 1964;
Ph.D., Indiana University, 1952.

KEITH C. WILLS, 1968

Professor Emeritus of Health and Physical
Education

B.A., Hendrix College, 1958;
M.S.E., Arkansas State University, 1965;
Ph.D., Texas A & M University, 1970.

CHIA CHI YANG, 1980

Professor Emeritus of Chemistry

B.S., National Chen Kung University, Taiwan,
1949;

M.S., Georgia Tech, 1968;

Ph.D., Georgia Tech, 1979.

General Information

The Campus

Arkansas Tech University, with its spacious 516-acre campus, is located on the northern edge of the city of Russellville. This growing community, with a population of approximately 28,000, is ideally situated between the mountains of the Ozark National Forest on the north and those of the Ouachita National Forest on the south. It is midway between the state's two largest population centers, Fort Smith, 85 miles to the west, and Little Rock, 75 miles to the east. Interstate Highway 40 passes just north of the campus and connects these two cities.

Arkansas Tech University's Lake Point Conference Center is located west of Russellville and is home to the College of Professional Studies and Community Outreach and offers both credit and non-credit programs. Lake Point is nestled on Lake Dardanelle in a beautiful wooded setting and offers private guest rooms, elegant and casual food service, unique amenities and spectacular views from every building. Lake Point Conference Center can accommodate a wide variety of meetings, training, conferences, retreats, as well as business and social functions.

In addition, Russellville is the crossroads of activity for State Highways 7, 22, 64, and 124. The historic natural crossing of the Arkansas River at Dardanelle is four miles to the south. The navigable river forms a 36,600 acre lake with 315 miles of shoreline behind a lock and dam located just southwest of the city. The Missouri Pacific Railroad passes through the city and parallels the river between Little Rock and Fort Smith.

Russellville is the county seat of Pope County. Historic Dwight Mission, established by the American Board of Foreign Missions among the Cherokee Indians in 1821, was located a short distance west of the campus of Arkansas Tech University on Illinois Bayou, where that stream is now crossed by Highway 64. Descendants of Cephas Washburn, the intrepid missionary who founded the mission and named it for Timothy Dwight of Yale, live in Russellville at the present time.

Arkansas Tech University is in the center of an area experiencing vigorous industrial development as evidenced by the growth of local industry and the number of national concerns locating plants in the area. Arkansas Nuclear One, the first nuclear power plant completed in the Southwest, and a second nuclear power unit have been constructed near Russellville by Entergy, thus assuring continued industrial growth. Headquarters for District 9 of the Arkansas Highway Department and for the Ozark – St. Francis National Forests are located in Russellville. The McClellan – Kerr Navigation Project is having a significant effect upon the development of the area. The impoundment of the Arkansas River has formed Lake Dardanelle which borders the west edge of the campus. Poultry, cattle, soybeans, cotton, and lumber are the principal money crops in the area served by Arkansas Tech University.

History

Arkansas Tech University was created by an act of the Arkansas General Assembly in 1909. Under the provisions of this Act, the state was divided into four Agricultural School Districts. Boards of Trustees were appointed by the Governor with the approval of the Senate, and appropriations were made for the erection of buildings and employment of a faculty for a district agricultural school in each of the four districts.

Twenty counties of northwestern Arkansas were designated as the Second District. Governor Donaghey appointed W. U. Balkman, J. R. Williams, H. S. Mobley, A. D. Shinn, and O. P. Nixon as a Board of Trustees for the Second District Agricultural School. Several towns made efforts to have the school located in their area. After considering all proposals, the Board of Trustees decided to locate it at Russellville, which had made an offer of a tract of 400 acres of land adjoining the city limits and a cash bonus of several thousand dollars.

The school opened its doors for students in the fall of 1910. The first class to graduate from the school was the high school class of 1912. In 1921-22, a freshman year of college work was offered, in 1922-23 a second year, in 1923-24 a third year, and in 1924-25 a fourth year. The General Assembly in 1925 changed the name from the Second District Agricultural School to Arkansas Polytechnic College with power to grant degrees. The class of 1925 was graduated with the degree of bachelor of science, as was the class of 1926. The effort to maintain a four-year high school and a four-year college proved beyond the resources of the institution at that time, and it became a junior college in the fall of 1927. The four years of secondary work were dropped, one year at a time, and the last high school class was the class of 1929.

Changing and increasing demands for college education in Arkansas caused the Board of Trustees in 1948 to convert the college from a junior college to a degree-granting institution. In 1948-49 the college offered the third year of college work, and in 1949-50 the fourth year, with the first baccalaureate degrees awarded at the end of the 1949-50 spring semester. A graduate program leading to the degree of master of education was established in 1976. Graduate courses were first offered by Arkansas Tech in the summer of 1975.

In accordance with an act of the Arkansas General Assembly and by the authority of the State of Arkansas Board of Higher Education, the name of Arkansas Polytechnic College was changed to Arkansas Tech University, effective July 9, 1976.

Arkansas Tech has consistently adjusted its scope to accommodate immediate and future needs. In 1985 the institution reorganized its programs into the Schools of Business, Education, Liberal and Fine Arts, Physical and Life Sciences, and Systems Science. In 1997, the School of Community Education and Professional Development was established. As part of ongoing efforts in strategic planning and a recognition of the growth and scope of the institution and its programs, the schools were renamed in 2009: College of Business, College of Education, College of Arts and Humanities, College of Natural and Health Sciences, College of Applied Sciences, and College of Professional Studies and Community Outreach.

Vision Statement

The vision of Arkansas Tech University is to be a student-centered university of choice.

Mission Statement

(adopted February 28, 2008)

Arkansas Tech University, a state-supported institution of higher education, is dedicated to nurturing scholastic development, integrity, and professionalism. The University offers a wide range of traditional and innovative programs which provide a solid educational foundation for life-long learning to a diverse community of learners.

General Education Goals

The general education curriculum is designed to provide a foundation for knowledge common to educated people and to develop the capacity for an individual to expand that knowledge over his or her lifetime. Students who have completed the general education curriculum at Arkansas Tech University will be able to:

Communicate effectively

Think critically

Develop ethical perspectives

Apply scientific and quantitative reasoning

Demonstrate knowledge of the arts and humanities

Understand wellness concepts

(See "[General Education Requirements](#)")

Programs of Study

In carrying out its mission, the University offers programs of study leading to associate and baccalaureate degrees in the areas listed below. Graduate level degrees can be found in the [Graduate Catalog](#).

College of Applied Sciences

[Agriculture Business](#)

[Agriculture Education](#)

[Computer Science](#)

[Culinary Management](#) (A.A.S.)

[Electrical Engineering](#)

[Emergency Management](#)

[Hospitality Administration](#)

[Information Systems](#)

[Information Technology](#) (A.A.S. and B.S.)

[Mechanical Engineering](#)

[Nuclear Technology](#) (A.S.N.T.)

[Recreation and Park Administration](#)

College of Arts and Humanities

[Art](#)

[Art Education](#)

[Creative Writing](#)

[Creative Writing Education](#)

[Criminal Justice \(A.S.\)](#)
[English](#)
[English Education](#)
[Foreign Language](#)
[Foreign Language Education](#)
[General Studies \(A.A.\)](#)
[History](#)
[International Studies](#)
[Journalism](#)
[Music](#)
[Music Education](#)
[Political Science](#)
[Psychology](#)
[Rehabilitation Science](#)
[Social Studies Education](#)
[Sociology](#)
[Speech](#)
[Speech Education](#)

College of Business

[Accounting](#)
[Business Education](#)
[Economics and Finance](#)
[Management and Marketing](#)

College of Education

[Early Childhood Education](#)
[Health and Physical Education](#)
[Middle Level Education](#)
[Secondary Education](#)

College of Natural and Health Sciences

[Biology](#)
[Chemistry](#)
[Engineering Physics](#)
[Fisheries and Wildlife Science](#)
[Geology](#)
[Health Information Management](#)
[Life Science and Earth Science Education](#)
[Physical Science and Earth Science Education](#)
[Mathematics](#)
[Mathematics Education](#)
[Medical Assistant \(A.A.S.\)](#)
[Medical Technology](#)
[Nursing](#)
[Physical Science](#)
[Physics](#)

College of Professional Studies and Community Outreach

[Early Childhood Education \(A.S.\)](#)
[Professional Studies](#)

Minors Offered

Minor	Hours
Accounting	21 hours
Anthropology	18 hours
Art	18 hours
Biology	20 hours

Business	19 hours
Chemistry	21 hours
Creative Writing	18 hours
Criminal Justice	18 hours
Economics	18 hours
Emergency Management	18 hours
Engineering Physics	20 hours
English	18 hours
Film Studies	18 hours
French	17 hours
Geography	18 hours
Geology	20 hours
German	17 hours
History	18 hours
Hospitality Administration	18 hours
Japanese	17 hours
Journalism	18 hours
Latin American with language proficiency	18 hours
Latin American without language proficiency	16 hours
Mathematics	20 hours
Military Science	21 hours
Philosophy	18 hours
Physical Science	20 hours
Political Science	18 hours
Pre-Law	21 hours
Psychology	18 hours
Recreation and Park Administration	18 hours
Rehabilitation Science	18 hours
Religious Studies	18 hours
Sociology	18 hours
Spanish	17 hours
Spanish Medical Interpretation	21 hours
Speech	18 hours
Strategic Studies	18 hours
TESL	18 hours
Theatre	18 hours

Physical Plant

The physical plant of Arkansas Tech University is located on a tract of 533 acres near the northern boundary of the city of Russellville. Acreage provides space for varsity and intramural recreational activities, drill fields, and the University farm. The McClellan – Kerr Arkansas River Navigation System provides a freshwater lake which borders on the west edge of the campus.

All instructional programs are taught in buildings which have been specifically designed or modified to complement the projected instructional tasks. The Corley Building, expanded in 2009, provides instructional space and state of the art laboratories for engineering, computer science, and mathematics. McEver Hall, renovated and expanded in 2010, provides specialized classrooms and labs for Biological and Physical Sciences. Norman Hall, which was completed in 2007, houses the Department of Art and contains a gallery and specialized classrooms. Rothwell Hall houses Academic Advising, College of Business offices and classrooms, a trading room with a live Stock Market Ticker and Video Display

Wall, and the Arkansas Small Business and Technology Development Center. Rothwell Hall was not only completed in Arkansas Tech's 100th year of operation (2009), but is also Tech's 100th building.

The College of Professional Studies and Community Outreach and the Center for Leadership and Learning are located at our Lake Point Conference Center which was acquired by Tech in 2006.

Arkansas Tech University has several resources which lend themselves to serving the cultural and recreational needs of the University and surrounding community. The John E. Tucker Coliseum complements the instructional program by providing a modern setting for concerts, conventions, and sporting events. The Witherspoon Arts and Humanities Building has a modern auditorium with a seating capacity of 742. The L.L. "Doc" Bryan Student Services Center constitutes the main facility for student services, student government, publications, and indoor recreational activities. The Arkansas Tech Museum, located in the Techionery Building, contains exhibits on archeology and early history of western Arkansas; museum lectures and events address cultural needs on the campus and in the community, and offer opportunities for students in the Parks, Recreation and Hospitality Department to become involved in interpretive activities.

Ross Pendergraft Library and Technology Center houses more than 1,200,000 items, including: 170,000 print volumes; 898,000 microforms; 115,000 government documents; 14,000 multimedia items; and 775 periodical subscriptions. Among these holdings are extensive backfiles of journals and newspapers. Photocopiers and microform reader-printers are available at several locations in the library. The library is a member of AMIGOS, a regional broker of international bibliographic data and information services. Over 220 electronic databases covering most subjects are accessible from the library and over the Internet through the Tech homepage at <http://library.atu.edu>. Assistance in the retrieval and use of materials is provided by seven professional librarians, nine paraprofessional staff, and a number of part-time employees. Librarian-mediated instruction and online searches are provided on request. Materials not available in the library may be requested through our interlibrary loan system, normally at no charge. The Library is the publisher of the retrospective Arkansas Gazette Index.

Pendergraft Library is open 97 hours per week except between semesters and during holidays. The state-of-the-art facility includes a variety of computer labs (both open use and instructional), a music/multimedia lab, a distance learning classroom, a large conference room, nine group study rooms, satellite downlink, cable TV connections, 135 publicly accessible computers, 138 lab computers, about 400 data drops for laptop computers, and access to the Tech wireless network.

Admission

Individuals who meet the admission requirements listed below may apply to Arkansas Tech University. The University reserves the right to reject the application of any individual. Every student must file an application for admission. Applications and additional information about Arkansas Tech are available from the Office of Admissions, Arkansas Tech University, 1605 Coliseum Drive, Suite 141 Doc Bryan, Russellville, Arkansas 72801.

Students may apply on-line from the Tech web site at www.atu.edu or e-mail for additional information via tech.enroll@atu.edu.

Tech will provide equal opportunity in admission to all persons. This applies to all phases of the admission process. Any demographic information collected through the admission application is on a voluntary basis and is to be used in a nondiscriminatory manner consistent with applicable civil rights laws for reporting and statistical purposes only and cannot affect eligibility for admission.

Tech is subject to and endorses both the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. The Director of Disability Services serves as the coordinator for these federal programs. The Office of Disability Service is located in Bryan Hall 103, Arkansas Tech University, Russellville, AR 72801, and can be contacted by calling (479) 968-0302 or FAX (479) 964-0375.

Beginning June 1, 2007, all students at Arkansas Tech University will be assigned a permanent, randomly generated, student identification number. A student's social security number will be used only on applications for admission and solely for the purposes of State and Federal reporting requirements and determination of eligibility for Federal financial aid.

All students must provide proof of two measles, one mumps and two rubella immunizations by way of an official record from another educational institution, certificate from a licensed medical doctor, or an authorized public health department representative. Proof of the appropriate immunizations must be presented to the Office of Admissions prior to admission to the university.

All students who hold a resident alien status must provide a copy of their resident alien card documenting an unexpired status.

Entering freshmen must comply with the following admission requirements and freshman placement standards. This includes students who enter with college credit earned prior to high school graduation, during summer following high school graduation, or by advanced placement.

Residual college entrance exams, taken on other college campuses, will not be accepted for admissions.

Entering Freshman/New Student

New students to Arkansas Tech University must submit an application for admission, college entrance exam scores, a record documenting completion of secondary requirements, and proof of immunization. If you have concurrent college credit, an official transcript from that institution is required. For Advanced Placement (AP), College Level Examination Program (CLEP) or International Baccalaureate (IB) credit, an original or certified copy from your high school will need to be submitted prior to credit being awarded. Detailed course articulation for AP, CLEP, and IB can be located under Credit by Exam. A minimum criterion for exam scores and grade point averages is listed below:

1. Composite ACT score of 15 or above, composite SAT score of 1060 or above, or a composite COMPASS score of 47 (averaging scores in algebra, writing, and reading). The ACT Writing exam is not required for admission purposes.
2. Completion of graduation requirements from an accredited public or private secondary school, a non-accredited private secondary school, or a home school program documenting a minimum 2.0/4.0 cumulative grade point average, and completion of the university's secondary school core curriculum, OR minimum GED score of 450.

Secondary School Core Course Recommendation

A minimum of twenty-two earned core course credits is required, from grades nine through twelve, for admission purposes. Two additional units of foreign language are recommended for college preparation. Asterisks indicate core courses required by Act 1290 for unconditional admission.

*English - 4 units, with emphasis on writing skills, but not to include oral communications, journalism, drama, or debate.

Oral Communications - ½ unit of oral communications.

*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 algebra II, geometry, and an advanced math course. The fourth unit may be college algebra or a higher level college math course, as long as three college credit hours are earned. College credit will show on a high school transcript as a half-unit of credit, but will still be considered the fourth unit for unconditional college admission purposes. The student must present a college transcript along with his or her high school transcript when applying for unconditional admission. It is strongly recommended that students take a math course during their senior year.

*Social Studies - 3 units, to include 1 unit each of American history (does not include contemporary American history), world history (not to include world cultures, world geography, or global studies), and ½ unit of American government, or civics and ½ unit of social studies (not to include courses in practical arts).

Physical Education - ½ unit of physical education.

Health and Safety - ½ unit of health and safety.

Fine Arts - ½ unit of fine arts.

Electives - 6 units of career focus electives.

Freshman Placement Standards

In accordance with A.C.A. § 6-61-110, first-time entering undergraduate students (includes students who entered college the summer of 1995 or thereafter and students who enter with advanced standing) who enroll in baccalaureate degree programs or associate-degree transfer programs must meet the following placement standards prior to enrollment in college-level mathematics or English composition courses.

Mathematics – Students scoring 19 or above on the mathematics section of the ACT, 460 or above on the quantitative portion of SAT-1, may enroll in college-level mathematics courses. For students who take the COMPASS, those scoring a 41 or above on the algebra section may enroll in college-level mathematics courses. Students not meeting the standard must successfully complete a developmental (pre-college level) mathematics program, demonstrating achievement at least as sophisticated as intermediate algebra, in order to be placed in college-level mathematics courses.

English Composition – Students scoring 19 or above on the English section of the ACT or 470 or above on the writing section of SAT-1 may enroll in college-level English courses. For students who take the COMPASS, those scoring 75 or above on the writing section may enroll in college-level English courses. Students not meeting the standard must successfully complete a developmental program.

Reading – Students scoring 19 or above on the reading section of the ACT, 470 or above on the reading section of SAT-1 will be considered to have met minimal reading skill requirements. For students who take the COMPASS, those scoring 82 or above on the reading section will be considered to have met minimal reading skill requirements. English composition may be taken concurrent with or subsequent to any required developmental reading program.

Students who are required to complete developmental program(s) in mathematics, English, and/or reading, must enroll in the appropriate course during their first semester at Tech and in each subsequent semester until the developmental program is completed. A grade of “C” or better is required in all developmental courses before the student may advance to higher level courses.

ACT 971, passed by the Arkansas legislature during the 2010 session, requires that all students who are required to complete ENGL 0203, ENGL 0303, MATH0903 and/or READ 0103, must take the COMPASS examination before being allowed to progress into the next course(s). The COMPASS examinations will be scheduled near the end of each semester and all students participating in one or more of the courses listed above must take the examination(s) before the end of the semester.

Former Students

Students who have interrupted their attendance at Arkansas Tech University for more than one year or who have attended another university in the interim must reapply for admission. Additional documents are required for readmission. Notification will be sent. Academic clemency may be granted in accordance with the clemency policy detailed in the Regulations and Procedures section.

Transfer Students

Transfer students making application for admission to Arkansas Tech University must submit official transcripts from all colleges/universities where they have been officially registered. Students seeking transfer of credit from other institutions may be asked to provide a catalog or course description from the transfer institution.

Students with fewer than 24 semester hours of earned college-level credit must also submit a high school transcript and must request current transferable ACT or SAT scores be sent to the University. ACT, SAT, or COMPASS scores will not be required if the English and mathematics general education requirements have been satisfied with grades of "C" or better. In the event that receipt of a student's transcript is unavoidably delayed, as may frequently occur at midyear, a transfer student may be admitted provisionally pending receipt of the official transcript. However, the University reserves the right to require immediate withdrawal if the previous record does not meet admission requirements.

Applicants for transfer must have earned a GPA of 2.00 (on a 4.00 scale) on all college-level courses attempted and be eligible to re-enroll at the last college or university attended.

Transfer Credit

The following policy is effective July 7, 2010. ATU will recognize transfer credit from the same U.S. regional accreditation associations; along with, additional colleges listed by ADHE in ACTS. The ACTS courses will be the only transfer credit accepted from that institution. Acceptance of the course credit will be determined by the date the institution was formally recognized by ADHE, and the student's matriculation term that must coincide or follow the date of that recognition. Credit from U.S. colleges and universities not accredited by one of the six regional accreditation associations or listed by ADHE in ACTS will not be accepted for transfer credit. Credit from colleges or universities outside the U.S. presented for transfer credit will be considered on an individual basis. **Transfer credit, although accepted by the university, is not guaranteed to be applicable toward meeting degree requirements for all programs offered by the university. Applicability of transfer credit to meet degree requirements depends on the major selected by the transfer student.**

Arkansas Course Transfer System (ACTS)

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students from the high school level through the adult workforce. This system contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and equitable treatment in the application of credits for admissions and degree requirements. Students may complete specified General Education courses anywhere in the public system as well as many courses in the degree/major that have been pre-identified for transfer. Course transferability is not guaranteed for courses listed in ACTS as "No Comparable Course." Transferability of courses taken prior to January 1, 2007, is at the discretion of the receiving institution. The Arkansas Transfer System can be accessed at <http://acts.adhe.edu/>.

International Student Admissions

The International and Multicultural Student Services Office (IMSSO) is pleased to serve as the admissions office for international students studying at Arkansas Tech University (Tech). Any student who is not a United States citizen or a permanent resident of the United States is considered an international student. International students are subject to out-of-state tuition rates and an international student services fee as well as additional admission requirements. International students interested in applying for admission to Tech must submit the following documents:

1. **Application** – An application for international admission, properly completed
2. **Application Fee** – A nonrefundable application fee of \$50 USD
3. **Academic Records** – All transcripts must be originals or school-certified copies of originals with official English translations. Notarized copies are not accepted.
 - i. **Entering Freshmen:** All applicants must submit appropriate academic records verifying previous educational attainment and the completion of secondary education requirements or the equivalency of US high school. This documentation should include grade/mark sheets as well as certificate/diplomas showing completion of secondary education equivalent to 12 years of US high school.
 - ii. **Transfer Students:** Students who have previously attended college either in the US or abroad must submit official transcripts from all colleges/universities where they have been officially registered. Students seeking transfer of credit from a foreign college/university must complete a credential evaluation through a company authorized by Arkansas Tech University (a list of approved service providers can be obtained in the IMSSO or in the Registrar's Office) and submit catalog or course descriptions from the transfer institution. Students with fewer than 24 semester hours of earned college-level credit must also submit a high school transcript or the equivalency of a US high school transcript and diploma as well as complete an entrance exam such as the ACT, SAT or COMPASS.

4. **Entrance Exam** – All applicants must complete the ACT, SAT or COMPASS exam. Students who have not completed the ACT or SAT may take the COMPASS exam on campus upon arrival and after admission to assist in advisement and course placement. However, if ACT or SAT scores are available, please provide this documentation along with the application for admission. Students with more than 24 semester hours of earned college-level credit are not required to take an entrance exam.
5. **English Proficiency** – Students who wish to apply for admission to the English Language Institute (ELI) are not required to demonstrate English proficiency. All other applicants should submit official documentation of meeting one of the following standards:
 - a. A minimum score of 500 on the written TOEFL (Test of English as a Foreign Language), 173 on the computerized TOEFL or 61 on the Internet-based TOEFL. Scores must be received directly from Educational Testing Service (ETS). The school code for Arkansas Tech University is 6010.
 - b. A minimum score of 5.5 on the International English Language Testing System (IELTS). An official score card must be sent directly to Arkansas Tech University.
 - c. An EIKEN score of Grade 2A. Scores must be sent directly from STEP, Inc. (Society for Testing English Proficiency).
 - d. For transfer students from US colleges/universities, one of the above mentioned documents can be provided or an official college/university transcript showing successful completion of college-level English Composition I and English Composition II with a grade of C or better.

NOTE: Test scores are only valid for 2 years. Please submit only those scores taken within two years from the time of application.
6. **Evidence of Sufficient Financial Support** – Undergraduate costs are estimated at \$19,568 USD for 9 months of study including tuition and fees, housing, meals, books and other living expenses. Applicants must provide certified evidence of the source and amount of funding that will be utilized to support educational expenses. Documents must be official and issued within the 6 months previous to the time of application. No copies are accepted.
7. **Passport** – Please provide a photocopy of your current passport as well as any previous visas to the US, I-20's and an I-94 card if available.

The application for international admission and all supporting documents should be submitted by May 1 for the fall semester, October 1 for the spring semester and March 1 for both summer sessions for priority consideration. Applications are still accepted after the priority dates. Admission will not be granted until all supporting documentation as listed above has been received and evaluated. Upon acceptance, notification will be sent to the student along with an I-20 (Certificate of Eligibility).

Students seeking to defer admission to a future term must submit a \$25 USD deferral fee along with updated evidence of financial support. Please send a written request for deferral to the IMSSO along with the fee and updated financial support documentation within 60 days of the start date of your last admission.

Full payment of tuition and fees must be paid at registration each semester. International students are required to purchase a health insurance policy provided by the university. Tech receives no remuneration as a result of international student enrollment in the health insurance plan.

More detailed information regarding international student admissions may be obtained by contacting the International and Multicultural Student Services Office, Tomlinson 29, Arkansas Tech University, Russellville, Arkansas, 72801-2222, USA; telephone 479-964-0832; fax 479-880-2039; web <http://www.atu.edu/imssso>.

Conditional Admission

First-time entering freshmen and transfer students who have been denied admission may file a written appeal addressed to the Assistant Vice President for Enrollment Management seeking conditional admission. The appeal must be made within ten calendar days from the date admission was denied and should state applicant's grounds for appeal. Students granted conditional admission will be admitted on academic probation.

Non-Degree Admission

Arkansas Tech University serves the general public by allowing individuals to enroll in classes for professional development and self-fulfillment without meeting regular admission requirements. The student admitted under this policy, who later chooses to pursue a degree, must reapply for admission as a degree seeking student and meet standard admission policies. A maximum of 27 credit hours earned as a non-degree seeking student may be applied to a degree program. Financial aid benefits may not be granted to students admitted as non-degree seeking. For more information, call the Office of Admissions at (479) 968-0343.

High School – University Admissions

Arkansas Tech University welcomes the opportunity to serve area schools by complementing their programs with special opportunities for students to enroll for college courses and earn college credit by attending Tech during summer sessions or by attending on a part-time basis during the regular academic year, concurrent with enrollment in secondary school. In accordance with the Arkansas Code of 1987 Annotated, paragraph 6-18-223, makes provisions whereby a student who is

enrolled in a public school in Arkansas and who has completed the eighth grade is eligible to enroll at Arkansas Tech University upon approval of the appropriate public school official, provided the student does not need developmental courses in mathematics, English or reading and has a cumulative high school grade point average of 2.00 or greater on a 4.0 scale.

Upon completion of a course(s), students may choose whether or not to have the course(s) and grade(s) recorded for college credit. Students who do not wish to have the course(s) and grade(s) recorded for college credit must notify the Registrar in writing within thirty days of the end of the term or semester. Once admitted and enrolled, concurrent students do not need to reapply for the concurrent program unless there is a break in fall/spring enrollment. Concurrent students must reapply when changing admission status, for example, from concurrent to entering freshmen. The course(s) agreed upon by the student and their high school must also be approved each term by a university official. The application for concurrent enrollment can be found at <http://www.atu.edu/admissions/index.shtml>.

ACT (American College Testing) Program

Entering freshmen are required to provide Arkansas Tech University with American College Testing (ACT) Assessment scores for purposes of admission, academic placement, and the awarding of academic scholarships. Entering freshmen who have not taken the ACT prior to arrival at Arkansas Tech or whose score report is more than five years old are required to take the Residual ACT preceding their first semester. The ACT, which covers English, mathematics, reading and science reasoning, is administered six times per year at test centers, such as high schools, colleges and universities, across the nation. ACT information and registration forms may be obtained from local high schools, colleges, or universities.

You may also contact the Arkansas Tech University Testing Center for ACT information and registration materials. In addition, you may correspond directly with ACT at American College Testing Program, P.O. Box 168, Iowa City, Iowa 52243.

The 2012-2013 ACT national test schedule is as follows:

Test Date	Registration Deadline
September 8, 2012	August 17, 2012
October 27, 2012	September 21, 2012
December 8, 2012	November 2, 2012
February 9, 2013	January 11, 2013
April 13, 2013	March 8, 2013
June 8, 2013	May 3, 2013

Please check the ACT Website for the 2013-2014 test schedule at <http://www.actstudent.org>.

COMPASS (Computerized-Adaptive Placement Assessment and Support System)

Entering freshmen are required to provide Tech with American College Testing (ACT) Assessment, Scholastic Aptitude Test (SAT), or Computerized-Adaptive Placement Assessment and Support System (COMPASS) scores for purposes of admission and academic placement. COMPASS is administered on the computer and consists of three tests: writing, math algebra, and reading. Please contact the Arkansas Tech University Testing Center for ACT or COMPASS information at (479) 968-0302.

Student Retention and Graduation Rates

For information about retention and graduation rates at Tech, go to <http://ir.atu.edu> or contact the Office of Institutional Research.

Selecting a Major Field

Arkansas Tech University encourages students to give serious thought to the selection of a major field of study. They should determine the academic pursuits that lead to the vocations most attractive, not only in financial gain, but in interest as well. Then they should examine the program of study most closely related to their interest areas.

Undecided Study

Many students entering the University have not chosen a major. The individual who has not decided on a major may enroll in general education courses which are required of all candidates for the baccalaureate degree (see [General](#)

[Education Requirements](#). Students enrolling as “undecided” majors will be assigned to the Academic Advising Center. The Academic Advising Center is located in Rothwell Hall, room 107, and can be contacted by calling (479) 964-0843. Students enrolled as “undecided” may select a major at any time; however, a student must select a major during the semester in which the student earns 45 credit hours.

Procedure for Scheduling Courses

Detailed procedures for registration/preregistration are contained each semester in the schedule of courses. Prior to enrollment, students, in consultation with an academic advisor in their major field of study, prepare a class schedule and officially register for classes, pay fees and, if living on campus, pay room rent and board.

Course Information

All courses taught at Arkansas Tech University are listed alphabetically by subject area in the [Course Descriptions](#) section. Course symbols, the four-digit numbers used to identify courses within a department, have the following significance: the first digit of the number denotes the year level at which the course is given; the second and third digits differentiate the course from others in the department; the fourth digit shows the number of credit hours given. Typically an “hour of credit” requires one hour of classroom work per week for the duration of a semester.

Graduate Program

The requirements for the degree of master of education, master of science in education, master of liberal arts, master of arts, master of science, master of science in nursing, master of engineering, and educational specialist degree are set forth in the publication entitled [“Graduate Catalog”](#). Information may be obtained by contacting the Dean of the Graduate College, telephone (479) 968-0398.

Fees and Expenses

Students enrolling at Arkansas Tech University are assessed tuition and fees to cover the costs of instruction and other student services common to a university setting. Additionally, certain courses requiring individual instruction or special facilities carry fees which are listed with the course description.

Students enrolling for twelve or more semester hours of undergraduate courses for the fall or spring semester are considered full-time. Tuition is assessed for each course at the appropriate credit-hour rate according to residency for full-time and part-time students. Instate tuition is \$180 per credit hour (\$360 per credit hour for out-of-state students). Up to \$13.00 per credit hour (\$26.00 per credit hour for out-of-state students) of the tuition fee for courses taken during the fall and spring semesters will be allocated to athletics.

Students enrolled for any semester are assessed a \$130 technology fee, a \$10 technology equipment fee, a \$4 per credit hour instructional support fee, a \$10 per credit hour strategic facilities initiative fee, a \$12 assessment fee, a \$7 transcript fee, a \$2 per credit hour student support fee, and a \$2 per credit hour student communication fee.

All fees and charges to students are set by the University's Board of Trustees. Every attempt is made to establish charges in time to appear in the catalog; however, when this is not possible, estimated charges are shown. **The University reserves the right to change fees and charges at any time if conditions necessitate or permit the change.**

Total University charges for instate residents for the school year (twelve hours fall and spring semesters) are estimated as follows:

Tuition (based on 12 credit hours)	\$4,320
Technology, assessment, and transcript fees	318
Student Communication Fee (\$2.00 per credit hour)	48
Student Support Fee (\$2.00 per credit hour)	48
Instructional Support Fee (\$4.00 per credit hour)	96
Strategic Facilities Initiative Fee (\$10.00 per credit hour)	240
Room and board:	
Residence Hall with Meal plan (average)	5,205
University Commons Apartments	from 4,596 to 5,712
East Gate Apartments	3,320 to 3,720
Books and supplies (estimated)	1,380

Tuition for courses taken during summer and mini-sessions will be assessed at the appropriate credit-hour rate for each course. A \$12 assessment fee, a \$7 transcript fee, a \$4 per credit hour instructional support fee, a \$10 per credit hour strategic facilities initiative fee, a \$130 technology fee, a \$10 technology equipment fee, a \$2 per credit hour student communication fee and a \$2 per credit hour student support fee are also assessed each summer and mini-session.

Tuition, fees, and one-fourth of the room and board charges for on campus students are due and payable prior to the beginning of each term. The balance of room and board charges may be paid in three monthly installments. Meal plans without board must be paid prior to the beginning of each term. An alternative payment plan is offered via the web site: <http://stuacct.s.atu.edu>.

Fees and Charges

Prices quoted are rates currently in place for the 2012-2013 academic year. All rates are subject to change as necessary.

Undergraduate tuition ^{1,2}	Instate	Out-of-State
Full-time (12 credit hours per semester)	\$2,160	\$4,320
Summer and part-time (per credit hour)	180	360
Graduate tuition ^{1,2} (per credit hour)	207	414
Instructional support fee (per credit hour)	4	4
Strategic facilities initiative fee (per credit hour)	10	10
Student support fee (per credit hour)	2	2
Student communication fee (per credit hour)	2	2
Technology fee (required each semester or term)	130	130
Technology equipment fee (required each semester or term)	10	10
Assessment fee (required each semester or term)	12	12
Transcript fee (required each semester or term)	7	7
International Student service fee		

Per semester (fall/spring)		30
Per summer term (five-week)		15
Per mini-term		10
Residence Hall Board Charges (Each fall and spring semester)		
19 meal-per-week plan (Plan A)		1,105
15 meal-per-week + \$100 Declining Balance Dollars (Plan B)		1,147
165 meals + \$100 Declining Balance Dollars (Plan C)		1,084
145 meals + \$130 Declining Balance Dollars (Plan D)		1,084
106 meals + \$150 Declining Balance Dollars (Plan E)		1,053
80 meals per semester - Commuter Plan (Plan F)		464
Residence Hall Room Charges		
Baswell, Paine, South Hall, Nutt Hall and Stadium Suite - Doubles		1,758
Jones and Roush Halls		1,463
Brown, Caraway, Critz/Hughes, Turner and Wilson Halls		1,293
Stadium Suites and Nutt Hall Singles		2,158
University Commons Apartments		
2 bedroom apartments (Each fall and spring semester)		2,856
4 bedroom apartments (Each fall and spring semester)		2,298
East Gate Apartments		
1 bedroom apartments (monthly)		415.00
2 bedroom apartments (monthly)		465.00
Late registration fee		25
Course change fee		10
Distance learning fee (per credit hour assessed on all distance learning)		5
Returned check		10
Replacement of ID card		25
Post office box rent (required of students living in university housing)		
Per semester (fall/spring)		15
Per summer term		7.50
Auto registration		30
Parking fees and fines (see Traffic Regulations)		
(All students parking on campus must have parking permits.)		
¹ Students who enroll for undergraduate and graduate courses will be charged according to the course classification.		
² Required course fees are listed along with the appropriate course descriptions.		
³ Up to \$13.00 (\$26.00 for out of state students) per credit hour of the tuition fee will be allocated to athletics.		

Estimated Living Expenses

All students living in residence halls are required to purchase a meal plan; Declining Balance Dollars (DCB) may be used in Chambers Cafeteria, Doc Bryan Food Court, and Convenience Store.

Payment for room and board is due and payable prior to the beginning of the semester. Students may, however, arrange to make four equal payments--one prior to the beginning of the semester and one by the 15th of each month. Room and board charges are subject to change.

When space permits, students may be allowed single occupancy of a residence hall room. The additional charge of \$400 per semester is payable in full upon receipt of the monthly statement.

Residence halls are closed between fall and spring semesters. However, residents may remain in the residence halls during this period provided they submit proper paperwork to the Office of Residential Life to gain approval. There will be an additional cost for residents approved to remain in the residence halls over this break period. Residents may remain in the residence halls during all other breaks, provided they notify the residence hall staff of their intentions prior to the break period.

University Commons apartments are available to upper-class students. No board plan is required, and students are able to sign a nine-month or twelve-month contract. Two bedroom and four bedroom apartments are available.

Payment of Accounts

Tuition and all other fees and charges, including at least one-fourth of room and board charges for students in residence halls, are due and payable prior to the beginning of each term at the Student Accounts Office, in the Doc Bryan Student Services Center, Office 133. Financial settlement may be made by personal payment or **AUTHORIZED** financial aid (loans, scholarships, grants, third parties, etc.). Visa, Master Card, and Discover credit cards are accepted for all charges. An alternative payment plan is offered via the web site: <http://stuacct.s.u.edu>. Registration is not complete until all financial obligations have been met satisfactorily. Failure to make financial settlement will result in cancellation of the class schedule.

Monthly billing statements are electronic. Near the first of each month, notification and information for access will be provided to students via the individual student e-mail address and online at <http://stuacct.s.u.edu>. Students are responsible for accessing billing statements and printing a paper copy if desired. In addition, paper copies are mailed twice yearly shortly before the beginning of the fall and spring terms. Students registering between billing cycles are responsible for accessing their charges online or contacting Student Accounts to insure making correct payment by the required due date. Payment is due even if billing statement is not received.

Students with delinquent accounts are not eligible for food service, transcripts, recommendations, advance registration, or readmission to any term. Collection fees for outstanding debts owed to the University may be assessed to the student.

The University reserves the right to amend or add to the regulations of the institution, including those concerning charges and methods of payment, and to make such changes applicable to students enrolled in the University, as well as to new students.

Reduction of Tuition and Fees for Official Withdrawal

The following reduction information specifically addresses courses that begin and end with the main term dates for Spring, Summer I, Summer II and Fall, as listed in the [Academic Calendar](#). Courses with beginning and/or ending dates that are different than the main terms listed above may have different reduction periods. It is the students' responsibility to consult the Student Accounts or Registrar's Office for these reduction dates prior to withdrawing.

In the event a student is receiving student financial aid, any refund amount attributable to a loan, grant, or scholarship will be returned to the appropriate account and not to the student. The amount returned to federal programs will be the amount of unearned Federal aid based on the number of calendar days of attendance up to the sixty percent point of the semester. Aid accounts will be refunded in the following order up to the amount of the original disbursement: Federal Direct Loan Programs, Federal Perkins Loan Program, Federal Direct PLUS Loan Program, Federal Pell Grant Program, Federal SEOG Program, Arkansas Department of Higher Education Programs, Tech scholarships and private aid. Additionally, students who have received a cash payment of Federal aid money will receive a letter after their withdrawal informing them of any amount to be repaid. These repayments will be made through the Student Accounts Office. The student will be ineligible to register for additional courses until the required payments are made.

Reduction of Tuition and Fees for Official Withdrawal - Summer Semesters

Students registering for a summer semester, but officially withdrawing from the courses by the end of the second day of the summer semester, as listed in the [Academic Calendar](#) will receive a 100 percent reduction of tuition and fees. Students registering for a summer semester, but officially withdrawing from the University by the end of the fifth day of the semester in a summer term, as listed in the [Academic Calendar](#) will receive an 80 percent reduction of tuition for courses which they are enrolled in at time of withdrawal. No reduction in tuition will be made after the fifth day of the summer semester. No reduction of fees will be made after the second day of the semester.

Reduction of Tuition and Fees for Official Withdrawal - Spring and Fall Semesters

Students registering for the fall or spring semester but officially withdrawing from the University by the end of the fifth day of the semester, as listed in the [Academic Calendar](#) will receive a 100 percent reduction of tuition and fees. Room and Board will be reduced on a pro rata basis. Thereafter, students officially withdrawing by the end of the twenty-fifth day of the semester will receive an 80 percent reduction of tuition only for courses in which they are enrolled at time of withdrawal. No reduction in tuition will be made after the twenty-fifth day of the semester. No reduction in fees will be made after the fifth day of the semester.

Reduction of Tuition/Fees for Dropping to Fewer Hours

Students dropping to fewer hours before the end of the second day of the semester in a summer term, as listed in the [Academic Calendar](#) will receive 100 percent reduction for the courses which are dropped. Students dropping to fewer hours before the end of the fifth day of the semester in a summer term as listed in the [Academic Calendar](#) will receive an

80 percent reduction for the courses which are dropped. No reduction in tuition will be made after the fifth day of the semester. No reduction in fees will be made after the second day.

Students enrolled for the fall or spring semester who drop courses by the end of the fifth day of the semester, as listed in the [Academic Calendar](#) will receive a 100 percent reduction of tuition for the courses dropped. Thereafter, students enrolled who drop courses before the end of the twenty-fifth day of the semester will receive an 80 percent reduction of the courses dropped. No reduction will be made after the twenty-fifth day of the semester. No reduction in fees will be made after the fifth day of the semester.

Mini-terms and courses with unusual beginning and ending dates may have different reduction dates. It is the students' responsibility to verify dates with Student Accounts or the Registrars' Office prior to withdrawing.

Reduction of Room and Board

A student withdrawing from school will be charged pro rata room and board to the date of official check-out from the residence hall. It is the student's responsibility to make arrangements to do a complete check-out with their hall staff upon withdrawal from the university. Students moving from the residence hall at their request during an academic year will be charged the full room and board for term of their housing agreement (typically an academic year). Students moving into residence halls during a semester will pay a pro rata charge on room and board.

Students moving out of University Commons apartments before the end of their lease term will forfeit their deposit and will be responsible for all apartment rent.

Out-of-State Residence Status for Tuition and Fee Purposes

Students classified as "out-of-state" must pay out-of-state tuition as shown in the section entitled "Fees and Charges."

No student who is a minor shall be admitted to Arkansas Tech University and classified as instate for fee purposes unless the parent or legal guardian is a bona fide domiciliary of Arkansas and has resided in this state in that status for at least six consecutive months prior to the beginning of the term or semester for which the fees are to be paid.

Any student not a minor must have lived in the state as a nonstudent for at least six consecutive months prior to the beginning of the term or semester for which fees are to be paid to be classified as an instate student. The policy in its entirety is available in the Office of the Registrar.

All undergraduate students (those who have not earned a baccalaureate degree) who are legal residents of states which are contiguous to Arkansas (specifically, Louisiana, Mississippi, Missouri, Oklahoma, Tennessee, or Texas) shall receive a waiver of out-of-state tuition charges.

A student from outside of Arkansas entitled to be treated as an instate student for fee purposes should complete an "Application for Residency Classification as Instate Domiciliary" and supply evidence to that effect.

Student Services Operations

Housing

Single students under 21, and with under 60 hours of college work completed, are required as space permits, to live on campus in University-owned housing units and to purchase a meal plan. This policy affects full-time (twelve hours or more, fall and spring; five hours or more, summer term) students only. Part-time students may reside in University housing with approval from the Office of Residential Life. For the purpose of health, safety, privacy and for the normal operation of the residence halls, residents must be 18 years of age or older by October 1 of the year under contract.

All applicants for housing who are 25 years of age on or before October 1 of the academic year, will be required to meet with either the Director of Housing or the Dean of Students, in order to determine if it is in the best interest of the community and the individual for them to reside in housing designed for traditional age college students. Based on this meeting the Director of Housing or Dean of Students will recommend to the Vice President for Student Services to either not accept the housing application or to provide housing for the applicant in alternative campus owned housing.

Rooms and apartments located on campus are reserved by students in advance of the term of residence. A \$25 application fee, payable to Arkansas Tech University, is required of applicants for campus housing.

Residence hall rooms are equipped with beds, mattresses, chairs, mirrors, and desks. Students furnish linens, bed cover and spreads, pillow, and study lamps. Custodians maintain the corridors and utility rooms, but students are responsible for the care, orderliness, and cleanliness of their rooms.

Each residence hall is supervised by a director assisted by student staff members. The Housing Office is located in Room 211 of the L.L. Doc Bryan Student Services Building.

Exemptions from student housing may be requested and will be considered on an individual basis.

Campus Residence Units

The University offers twelve residence halls for our students. Eighty-four apartments are available for upper-division students. The residence halls are air-conditioned and are constructed to accommodate two students per room (Campus Court, Stadium Suites, Nutt Hall, and Wilson Hall have some designed single rooms available). All rooms are equipped with cable television service as well as internet services. Laundry facilities are located in all residence halls with the exception of Stadium Suites. The Office of Residence Life also manages two smaller facilities for members of the Arkansas Tech University sororities.

Baswell Hall

Baswell was completed in the Fall of 2007, and provides the entrance to Tech's newly renovated football stadium. Baswell offers housing for both males and females in a suite style arrangement with two rooms sharing bathroom facilities. The unique design of Baswell Hall provides four spacious lounges on the second through fifth floors for our students to study, relax and socialize.

Brown Hall

Brown Hall is an all-male residence hall located on the west edge of campus between Tucker and Turner Halls. It houses approximately 150 students. It is designed as a traditional residence hall with three floors, each with a long hallway of rooms and rest rooms conveniently located off the hallways. Students desire to live in Brown Hall because of its strong community.

Caraway Hall

Caraway Hall is located on the southeast side of campus nestled between Tomlinson Hall and the Alumni House. It currently houses approximately 100 women, with two students sharing a room and common bathrooms located on each floor. This hall has a tradition of academic excellence and great loyalty from its alumni. Two spacious lounges, one on the first floor and one on the fourth floor, give Caraway a great feeling of community and camaraderie with the hall. Caraway Hall is on the National Registry of Historical Buildings. The rest rooms in Caraway Hall were renovated during the summer of 2005.

Critz/Hughes Complex

This complex, opening in the Fall of 2009, is actually two residence halls, Critz Hall and Hughes Hall. Both facilities were built prior to 1960 and in the past few years have been used by the university to serve a variety of functions. Recently

renovated, these buildings now serve to provide community style living for approximately 180 of our residents. Critz Hall is all male and Hughes Hall houses both male and female residents.

Jones Hall

Jones Hall is situated on the north side of campus. Jones houses approximately 210 students and provides a suite-style living arrangement in which two rooms share a common bathroom. As our largest all-female facility on campus, the ladies of Jones Hall have a strong sense of identity and many of them choose to stay in Jones Hall for their entire years at Tech!

Nutt Hall

Nutt Hall opened its doors to students for the first time in the fall of 2002. It is a five story co-ed hall for 338 residents. Arranged in a variety of suite styles, Nutt has both double rooms as well as single rooms. Students in Nutt Hall enjoy the common living areas available on each of the ten wings in the hall. Single Rooms in Nutt are typically occupied by upperclass students.

Paine Hall

Paine Hall was closed in the mid 1990s for renovation and was reopened for operation in the fall of 2001. Paine provides space for 216 students, and serves as a co-ed hall offering a unique living environment on campus. Located on the northwest edge of campus, Paine Hall has private bathrooms for each double room. Students who choose this hall appreciate this opportunity for increased privacy.

Roush Hall

Roush Hall is located on the north side of the campus, next to the Doc Bryan Student Services Center. Roush provides a suite-style living arrangement for approximately 100 men in which two rooms share a common bathroom. Students desire this hall because of the close brotherly community and because of its convenient location. Roush has three lounges available for students to study, play games and socialize.

Stadium Suites

Stadium Suites are located on the most southern part of campus directly across from the south goal post of Buerkle Field. This facility consists of 11 units housing 4 students in two singles and one double room, sharing a living room space. Priority for this unique living arrangement is given to upperclass students.

Turner Hall

Turner Hall is a three-story traditional co-ed residence hall offering living opportunities for nearly 200 Tech students. It is not uncommon to walk into Turner Hall and be greeted by students socializing in the entryway or playing pool in the first floor lounge. Similar in design to Brown Hall, the rooms in Turner Hall are located off of central hallways, as are the bathroom and shower facilities.

Wilson Hall

Wilson Hall is one of the oldest facilities on the Tech Campus and for a period of time served the Tech Community as a classroom and Faculty Office building. Renovated during 2005, Wilson Hall has been re-introduced to the campus once again as a residence hall, this time as a co-ed facility for over 150 residents. Wilson Hall offers both single and double rooms for our residents all located off of long hallways with community bathrooms and shower facilities.

University Commons Apartments

Five units with four-bedroom and two units with two-bedroom apartments are offered to our upper-division students. Each apartment has a living room, kitchen, washer and dryer along with private bedrooms with Internet access. The residents share the common kitchen, washer and dryer, living room space and two full baths in the four-bedroom apartments. The two-bedroom units are comprised of two private bedrooms, a kitchen, washer and dryer, living room and two full baths. University Commons Apartments also have a centrally located clubhouse with a large television area, fitness equipment, game tables, the apartment staff office, and a full service kitchen.

University Bookstore

The Arkansas Tech University Bookstore is located in the Young Building. Textbooks, study guides, school supplies, computer software, caps and gowns for graduation, in addition to other items may be purchased.

A full refund will be given on new or used textbooks until the end of the 3rd class day. The following conditions will apply:

1. You need your cash register receipt and Tech I.D.
2. Your new textbooks must be returned in brand new condition with no bent corners or water damage.
3. Wrapped or boxed textbooks must be unopened.

Textbook Refund Policy

An extended period for refunds is available to students who drop a class or withdraw from school. Specific dates will be posted each semester. Students must have a withdrawal slip and receipt. Returns are not allowed on study guides, workbooks, cliffnotes, wrapped or boxed merchandise that is opened, etc. The manager reserves the right to make the decision on the condition or salability of the merchandise.

Buy Back Policy

Students may sell their textbooks for cash at the bookstore during examination week. Fifty percent of the new price will be paid to the student if the bookstore has received a request from the instructor stating the textbook will be used the following semester, the textbook is in good condition (no water damaged books will be bought back), and the bookstore is not overstocked. Select textbooks not bought at the Campus Bookstore may have less value than 50% of the new price. Textbooks with a new edition pending may be bought back at less than 50 percent of new price. Current market value will be paid on current editions not used or needed for the following semester on campus. A current Tech ID is required to sell books back. The bookstore does not guarantee the buy back of any textbook at any time.

Additional information concerning the University Bookstore may be obtained by visiting their web site at <http://bookstore.atu.edu>, by calling (479) 968-0255, by faxing (479) 964-0861, or by e-mailing bvaughan@atu.edu.

Counseling Services

The ATU Counseling Services, 402 West O Street, Dean Hall 126, provides counseling, consultation, and outreach to the Arkansas Tech University community. The counseling staff is committed to promoting the educational mission of the University by working with the campus community to establish and maintain healthy and effective behavior patterns and lifestyles that enhance learning and personal development. The range of services provided includes personal counseling for students in individual, couples, or group sessions. The staff provides consultations to students, parents, staff, faculty, and administration. There is a small library of self-help books and videos, and a variety of informational brochures available. Presentations and outreach programming are scheduled throughout the year and are available upon request.

Services are provided Monday-Thursday from 8:00 am - 3:00 pm* year round. This service is staffed by two Licensed Professional Counselors. For additional information please visit the Health & Wellness Center in Dean Hall 126 or call 479 -968-0329.

Department of Public Safety

The Department of Public Safety is located on campus at 1511 N. Boulder Avenue. To report a crime or emergency call the Department of Public Safety at 479-968-0222 or 911. The Department of Public Safety maintains direct contact with the 911 communications center for all emergency services. It is the responsibility of the Department of Public Safety to investigate all reports of criminal activity and accidents that occur on campus. Also, you can visit the Department of Public Safety website for more information and services at <http://dps.atu.edu>.

Health and Wellness Center

Recognizing that optimum health is essential to effective learning, the University maintains health services available to all students. The Health and Wellness Center, located in Dean Hall Room 126 (entrance on the north side of the building), provides confidential treatment of minor injuries and illnesses through a well-equipped facility and within the scope of practice of the two registered nurses who staff the center fulltime. The RNs make appropriate referrals to local health care providers when necessary.

The University assumes no financial responsibility for student care other than that provided by the Health and Wellness Center. Students are urged to carry their own health insurance and Tech cooperates with a number of other higher education institutions in Arkansas to make available a student group insurance policy. Students not adequately covered by an individual or family group insurance policy may purchase the policy at the beginning of any semester. Application forms are available at the Health and Wellness Center or online at www.macori.com. All international students are required to purchase a medical insurance plan that satisfies the requirements of the Office of International and Multicultural Student Services.

In addition to clinical services, a wide range of health promotion and educational programs are provided in a variety of campus settings.

Patient hours are Monday-Friday, 8:00 a.m. - 5:00 p.m. Students are encouraged to make appointments but walk-ins are welcome. The Health and Wellness Center staff can be contacted by phone at 479-968-0329, email at hwc@atu.edu or by online at www.atu.edu/hwc.

Student Accident and Health Insurance

Arkansas Tech cooperates with a number of other higher educational institutions in Arkansas to make available a student group insurance policy. Students not adequately covered by an individual or family group insurance policy may purchase this policy at the beginning of any semester. Application forms are available at the Health and Wellness Center or online at: www.macori.com. All international students are required to purchase a medical insurance plan that satisfies the requirements of the Office of International and Multicultural Student Services.

Disability Services for Students

Arkansas Tech University is committed to providing equal opportunities for higher education to academically qualified individuals with disabilities. Students with a disability attending Tech will be integrated as completely as possible into the University community. Tech does not offer a specialized curriculum for students with disabilities nor does it assume the role of a rehabilitation center, but does assume responsibility for modifying campus facilities and procedures to accommodate individual needs where reasonable and without posing an undue hardship on the University.

Services arranged through the University's Disabilities Director include consideration of classroom and building accessibility, planning for adequate travel time between classes, ability to record classroom lectures, additional time for testing, and similar types of accommodations. Per individual needs, students who may require academic support are encouraged to utilize the various departmental tutorial laboratories as well as the Student Service Tutoring Center.

Tech is subject to and endorses both the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. The Disabilities Director serves as the coordinator for these federal programs. The Director is located in the University Testing Center in Bryan Hall, Suite 103, and may be contacted by calling (479) 968-0302, (Phone) (479) 964-3290 (TTY), (479) 968-0375 (FAX), or by e-mail at kmealy@atu.edu.

University Testing Center

The University Testing Center provides services which assist in the recruitment, retention, and graduation of students.

Testing services include providing registration information and materials and administering examinations such as the American College Test Assessment (ACT), Graduate Record Exam (GRE), Law School Admission Test (LSAT), Miller Analogies Test (MAT), Medical College Admissions Test (MCAT), Professional Assessments for Beginning Teachers (PRAXIS), and others. Test registration bulletins and preparatory materials are available for many of these exams online. Tests that will allow an individual to earn college credit by attaining the qualifying score established by Arkansas Tech University are also administered and include Advanced College Placement (AP), College Level Examination Program (CLEP), National League for Nursing (NLN) and Arkansas Tech examinations. Tests that require payment must be paid in advance at Student Accounts located in the Doc Bryan Student Services Building.

The University Testing Center is located in Suite 103 of Bryan Hall and may be reached via phone (479) 968-0302 or fax (479) 968-0375. For additional information, students may visit <http://www.atu.edu/testing.shtml>.

Norman Career Services

Norman Career Services provides online registration for students, alumni, and employers, as well as established web links to ethical employment boards. Registrants may access and provide information through WonderLink via the Career Service website www.atu.edu/career/, including cover letters, resumes, campus recruiting schedules, information sessions, etc. The center hosts and maintains a computerized career interest inventory, called "Focus 2," which may be accessed online. Services provided to ALL classifications of students and alumni include career counseling and resume critiquing. It also provides career workshops to classes, student groups and community organizations to ensure that Arkansas Tech University graduates are well informed, prepared for the job search, and availed of every opportunity to choose from professional alternatives. Career and part-time employment opportunities through business, industry, government, the health field and education are posted through WonderLink.

Norman Career Services hosts recruiters who conduct a variety of interviews each semester. Current contacts are maintained with local, national, and international employers seeking career professionals from every major. Career fairs are hosted each fall and spring for all students.

Additional information concerning Career Services may be obtained by visiting their web site at <http://www.atu.edu/career/>, by calling (479) 968-0278, or writing to ATU, Norman Career Services, Doc Bryan Student Services Center, Suite 229, Russellville, AR, 72801.

Student Exchange Opportunity - Arkansas Tech University Komazawa University Student Exchange

Students who wish to improve their Japanese language skills and learn more about Japanese society may do so by studying for a semester or a year at Komazawa University in Tokyo. Students must have completed two years of university work in the case of undergraduates and one year of graduate work in the case of graduates prior to enrollment in this program. Applicants must have good academic standing and a minimum of two years of Japanese language instruction. Students will be admitted in the first semester beginning in April or in the fall term which begins in September. Costs include Tech tuition and fees (students are exempt from Komazawa tuition) as well as transportation and living expenses. More information may be obtained from the Office of International and Multicultural Student Services, Tomlinson Room 029 phone (479-964-0832) or the College of Arts and Humanities, Witherspoon 240, phone (479-968-0274).

International and Multicultural Student Services

The International and Multicultural Student Services Office provides support services designed to enrich the college experience for multicultural and international students. The office actively recruits multicultural and international students to increase the diversity of the Tech campus, provide the opportunity for cultural exchange, and aid in helping all Tech students develop an appreciation for cultural differences.

The office offers a wide range of services for international students, including orientation, immigration updates, cross-cultural programming, and other support services necessary to ease the transition of international students into the U.S. culture. American college students play a vital role in this process by volunteering to serve as mentors to new international students through the Global Connect program.

Several established student organizations receive support from the International and Multicultural Student Services Office, including the Black Student Association, the Chinese Student Association, the Hispanic Student Association, the Indian Student Association, the Association for Cultural Interaction, and the Japanese Student Association. Working together, programs are developed and sponsored throughout the year to educate faculty, staff and students regarding international and multicultural heritage.

Additional information may be obtained by calling (479) 964-0832, faxing (479) 880-2039, or writing to the Director of International and Multicultural Student Services, Tomlinson Room 29, Arkansas Tech University, Russellville, Arkansas 72801, U.S.A.

English Language Institute

The mission of the ATU English Language Institute (ELI) is to provide classes that assist non-native speakers of English in developing the English language skills necessary to successfully pursue academic work in a United States college or university. The ELI accomplishes the mission by delivering non-credit English as a Second Language (ESL) academic reading, writing, and speaking and note-taking instruction for English language deficient students. While the ELI is an integral part of the Office of International and Multicultural Student Services, it welcomes students from diverse backgrounds whether international or U.S. resident. Additional information may be obtained by calling (479) 964-3272, faxing (479) 880-2039, or writing to the Coordinator of the English Language Institute, Tomlinson Room 029, Arkansas Tech University, Russellville, Arkansas 72801, U.S.A.

Student Financial Aid

The primary purpose of student financial aid at Tech is to provide assistance to students who, without aid, would be unable to attend college. Financial assistance consists of scholarships, grants, loans, and part-time employment, which may be offered to students singularly or in various combinations, depending upon the degree of need. In determining the extent of a student's need, the University must consider the financial support which may be expected from the income, assets, and other resources of the parents and the student. Aid awards by the University are considered supplementary to the efforts of the student's family in assisting their children with college expenses. All awards are administered by the Financial Aid Office in accordance with the University's equal educational opportunity policy. The University does not participate in individual financial aid agreements with other institutions, including study abroad programs. Study abroad in a Tech sponsored program approved for academic credit is considered for Federal aid in the same manner as all other for academic credit classes.

Application forms for all types of aid may be obtained from the Financial Aid Office in Doc Bryan Student Services Center, Office 117.

Cost of Attendance

A student's cost of attendance (also called the financial aid budget) is the total of required tuition and fees and allowances for books and supplies, room and board, travel and personal expenses. Since federal regulations allow the cost of a

computer to be added to the cost of attendance one time during the college career of a student, the cost of a computer and related accessories up to \$1,500 purchased no earlier than four months prior to enrollment will be added to the student's cost of attendance budget upon the student's submission of an itemized paid-in-full receipt. This will be a one time adjustment with the costs being spread over the school year. No further adjustments will be made for upgrades or additional software at any time during the student's career. Other adjustments to the cost of attendance allowed by federal regulations include Tech sponsored study-abroad programs approved for academic credit, child care costs, purchase of equipment required by all students in the same course of study, and reasonable expenses incurred related to a student's disability. These adjustments may result in additional financial aid if the student was not already receiving the maximum amount of every type of aid for which they were eligible. For more information, contact the Financial Aid Office: (479) 968-0399.

Scholarship Stacking Policy

Act 1180 of 1999 prohibits postsecondary institutions from using public funds in a student aid package which may contain a combination of state, institutional, private and federal funds that exceeds the cost of attendance at the institution. Arkansas Tech follows the Arkansas Department of Higher Education regulations by reducing scholarship amounts which cause awards to exceed cost of attendance. In absence of direction from a private donor, private funds will be credited to the first semester attended unless they cause an over-award for the semester. In these cases, the scholarship will be divided equally between the current and following semester. For more information on the scholarship stacking policy, contact the Financial Aid Office: (479) 968-0399.

Additionally, students who have received a cash payment of Federal aid money will receive a letter after their withdrawal informing them of any amount to be repaid. These repayments will be made through the Student Accounts Office.

The student will be ineligible to register for additional courses until the required payments are made.

Institutional Stacking Policy

Under Arkansas law, ACT 323, other financial aid received may reduce the value of the academic award. The maximum allowance for institutional scholarships will be limited so that the total award, including Federal grants and state awarded funds, does not exceed the actual billed cost for tuition, academic fees, room and board, plus a stipend up to \$700.

Academic Scholarship Requirements

All academic scholarships are awarded on a competitive basis. The deadline to apply for Distinguished Scholars, Second Century Scholars, or a Collegiate Scholars is February 28 of the current award year. The deadline to apply for University Honors is December 1 of the current award year. The deadline to apply for Transfer Scholarships is June 1 for a fall term and December 15 for a spring term of the current award year. The amount of total funds received by each student will be contingent on the Arkansas Department of Higher Education Scholarship Stacking Policy, Arkansas Act 1180 of 1999, and the Institutional Stacking Policy.

Main campus scholarship awards will only pay for main campus coursework. Students may receive only one Tech-funded academic scholarship in any semester. Scholarship recipients must live in a residence hall or receive an exemption to the residency requirements from the Residential Life Office in accordance with established University policy. Recipients are responsible for making on-campus housing arrangements. Students who live in Louisiana, Mississippi, Missouri, Oklahoma, Tennessee, and Texas are considered in-state for tuition purposes and therefore eligible for ACT scholarship awards. Original ACT or SAT reports should not be altered. Superscores or recalculated exam scores, using subset scores from multiple exams, will not be accepted. A traditional-aged high school student who opts to take the GED and scores a minimum of 580 may apply for academic scholar awards. Students receiving scholar awards must be U.S. citizens.

All scholarship recipients must be admitted to the University with a Free Application for Federal Student Aid application (FAFSA) on file before a scholarship will be credited to a student's account. All additional information requested by the Financial Aid Office must be submitted by December 1 in order to meet the aid application requirements for second semester renewal. For all subsequent semesters, the FAFSA and all requested documentation must be on file by August 1 each year.

Scholarships are awarded for consecutive fall and spring terms only and do not cover summer terms. Scholarships can be deferred for up to one year upon Scholarship Committee approval. A deferment must be requested in writing prior to the semester for the scholarship award.

Students who receive scholarship awards are responsible for knowing their renewal requirements printed on their award notification or available online at <http://www.atu.edu/admissions/>. Receipt, continued receipt, or renewal of all academic scholarships is also contingent upon the student honoring the Arkansas Tech University Student Code of Conduct as well as local, state, and federal laws. Transfer credit, CLEP, AP, IB, summer courses, or concurrent enrollment credit cannot be used to qualify for scholarship renewal. Failure to meet the renewal requirements in any semester will result in the

forfeiture of the scholarship for all subsequent semesters. Students who fail to meet renewal requirements are notified via their official student email.

To remain in compliance with Act 323 of 2009, the University reserves the right to cancel or modify any scholarship funded by the institution at any time.

Students, who received scholarship awards prior to fall 2010, see the undergraduate catalog printed for the year of entry for renewal requirements.

University Honors Scholarship

University Honors participants receive a maximum award of \$5300 per semester for up to eight semesters or until the completion of an undergraduate degree, whichever comes first. Students who score a 28-36 ACT and have a 3.50 cumulative high school GPA are encouraged to apply. The University Honors application deadline is December 1 of the current academic year. Students who are chosen for an interview will be notified in December and January. Invitations to join the University Honors Program will be sent by February 1 to selected interview candidates. All University Honors scholarship recipients must participate in University Honors curriculum requirements, in the sophomore service requirement, and attend all Honors functions. Scholarship recipients must complete a minimum of 15 hours per semester with a 3.25 semester GPA to be eligible for the scholarship for the following semester. For additional information on the University Honors scholarship, contact Dr. Jan Jenkins, Director of Honors, at (479) 968-0456.

Distinguished Scholars

Distinguished Scholars receive a maximum award of \$4500 per semester for up to eight semesters or until the completion of an undergraduate degree, whichever comes first. Incoming freshmen who score 26-36 ACT composite and 3.25 cumulative high school GPA are encouraged to apply. Scholarship recipients must enroll in a minimum of 15 hours during the fall semester of the freshman year and complete a minimum of 12 hours with a 3.00 semester GPA to be eligible for the scholarship for the following semester. Recipients must enroll in a minimum of 15 hours for the spring semester and complete a total of 30 hours for the freshman year with a 3.00 semester GPA to be eligible for the scholarship for the sophomore year. Transfer credit, CLEP, AP, IB, summer courses, or concurrent enrollment credit cannot be used to qualify for scholarship renewal. Renewal for subsequent semesters requires a 3.25 semester GPA on a minimum of 15 hours. This scholarship must be used the fall semester following high school graduation.

Second Century Scholars

Second Century Scholars receive a maximum award of \$2,550 per semester for up to eight semesters or until the completion of an undergraduate degree, whichever comes first. Incoming freshmen who score 24-25 ACT composite and 3.25 cumulative high school GPA are encouraged to apply. Scholarship recipients must enroll in a minimum of 15 hours during the fall semester of the freshman year and complete a minimum of 12 hours with a 3.00 semester GPA to be eligible for the scholarship for the following semester. Recipients must enroll in a minimum of 15 hours for the spring semester and complete a total of 30 hours for the freshman year with a 3.00 semester GPA to be eligible for the scholarship for the sophomore year. Renewal for subsequent semesters requires a 3.25 semester GPA on a minimum of 15 hours. Failure to meet the renewal requirements in any semester will result in the forfeiture of the scholarship for all subsequent semesters. This scholarship must be used the fall semester following high school graduation.

Collegiate Scholars

Collegiate Scholars receive a maximum award of \$500 per semester for up to four semesters. Incoming freshmen who score 21-23 ACT composite and 3.25 cumulative high school GPA are encouraged to apply. Scholarship recipients must enroll in a minimum of 15 hours during the fall semester of the freshman year and complete a minimum of 12 hours with a 3.00 semester GPA to be eligible for the scholarship for the following semester. Recipients must enroll in a minimum of 15 hours for the spring semester and complete a total of 30 hours for the freshman year with a 3.00 semester GPA to be eligible for the scholarship for the sophomore year. Renewal for subsequent semesters requires a 3.25 semester GPA on a minimum of 15 hours. Failure to meet the renewal requirements in any semester will result in the forfeiture of the scholarship for all subsequent semesters. This scholarship must be used the fall semester following high school graduation.

Tech Transfer Scholarship

The award amount varies for this competitive scholarship. Students who have completed 30 or more transferable, for-credit hours at an accredited college or university with a minimum 3.25 transfer GPA should apply. Students who receive transfer scholarships are required to enroll in and complete 15 or more hours with a 3.25 semester GPA for renewal of up to three subsequent semesters. Transfer scholarships must be used on the main campus in Russellville.

Phi Theta Kappa

Transfer students who are members of Phi Theta Kappa International Honor Society and have completed a minimum of 30 transferable, for-credit hours with a minimum 3.50 college GPA are eligible to apply for a Phi Theta Kappa Transfer Scholarship. These scholarships are competitive and pay up to \$2550 a semester renewable up to three semesters. Transfer scholarships must be used on the main campus in Russellville.

Presidential Honors Transfer Scholarship

This scholarship allows any Arkansas two-year college president/chancellor the opportunity to name one student each fall for a transfer scholarship awarded up to \$2,550 per semester. A student must enroll in and complete 15 or more hours with a 3.25 semester GPA for renewal of up to three subsequent semesters. Interested students should check with their current two-year school's Financial Aid Office or President's/Chancellor's office for further details. Transfer scholarships must be used on the main campus in Russellville.

Academic All-Star Scholarship

Transfer students who are selected as Academic All-Stars by their two-year institution are eligible to apply for this scholarship. This scholarship is awarded up to \$2,550 per semester. A student must enroll in and complete 15 or more hours with a 3.25 semester GPA for renewal of up to three subsequent semesters. Priority consideration will be given to the first ten students who apply prior to June 1. Transfer scholarships must be used on the main campus in Russellville.

Senior Service Fellowships

Fellowships in the various colleges of the University are open to a limited number of outstanding advanced students. These service fellowships are awarded at the discretion of college committees when the caliber of the applicant justifies such assistance. Candidates for the fellowship must have earned 90 semester hours of credit, have a minimum grade point average of 3.00 on all work, and be enrolled in a minimum of 12 hours for the semester(s) for which the fellowship is granted. Any deviation or exception to this policy must be approved by the Office of Academic Affairs. Students who would like to be considered for a Senior Service Fellowship must make written application by April 1 to the appropriate dean.

Athletic Scholarship

The maximum number and maximum value of such scholarships will be determined by the constitution and by-laws of the NCAA Great American Conference. Applicants should contact the Arkansas Tech University Athletic Director at 479-968-0245.

Native American Out-of-State Waiver

Arkansas Tech University offers in-state tuition rates to Native American students in other states belonging to tribes which formerly lived in Arkansas, before relocation, and whose names are on the rolls of tribal headquarters. Tribes thus identified include the Caddo, Cherokee, Chickasaw, Choctaw, Creek (Muskogee), Delaware, Kickapoo, Osage, Quapaw, Shawnee, and Tunica. Students who qualify for in-state tuition for fee purposes may apply for freshman academic scholarship. For more information contact the Office of Admissions at (800) 582-6953.

Arkansas Tech University Foundation Scholarships

Arkansas Tech University Foundation Scholarships will be awarded if funds are sufficient. To be considered for an Arkansas Tech University Foundation scholarship where need is a determining factor, a Federal Financial Aid Application (www.fafsa.com) must be on file in the Financial Aid Office. Federal regulations do not permit students to receive financial aid in excess of their cost of attendance. For complete details regarding scholarship stacking regulations, contact the Financial Aid Office.

Students who receive privately funded scholarships will be responsible for writing thank you notes. Expressing appreciation to donors for their interest in and support of higher education is an important part of receiving a scholarship.

The Arkansas Tech University Foundation reserves the right to amend scholarship requirements and criteria.

FOUNDATION GENERAL SCHOLARSHIPS

The student is responsible for submitting the Foundation General Scholarship Application and all documentation listed in the scholarship criteria to the Office of Development. The application and all required documentation must be **received** by March 15 (i.e., applicant letter, reference letters, etc.). Only one application and documentation is required for multiple Foundation General Scholarships.

Documentation must include a letter from the applicant explaining the need for the scholarship, special family circumstances, career goals, and **three** letters of recommendation from any of the following: Arkansas Tech faculty, High School Counselor, Principal, Pastor, Employer, or someone familiar with your work ethics and family situation.

The applicant will be considered for all scholarships through the Office of Development where all the criteria requirements have been fulfilled.

Submit Application Packet to:
Office of Development
1509 N. Boulder Avenue ADM 209
Russellville, AR 72801-2222

All applications and documentation must be **received by March 15**.

To view the Foundation General Scholarships offered at Arkansas Tech University please go to <http://www.atu.edu/givetotech/sch-general.htm>

Foundation Major Specific Scholarships

To view the Foundation Major Specific Scholarships offered at Arkansas Tech University, please go to <http://www.atu.edu/givetotech/scholar-search.htm>

Privately Supported Scholarships

Allied Poultry Industries Scholarship

Scholarships are awarded to students in the Department of Agriculture. These scholarships are awarded to promote entrance into this vast food-producing industry. Trained, high-quality college graduates are needed for jobs as administrators, production managers, and sales-service representatives. The selection is made by the Allied Poultry Industries Scholarship Committee.

Arkansas Health Information Management Association Scholarship

An annual scholarship fund has been established by the Arkansas Health Information Management Association. The scholarship is awarded each spring to a deserving health information management major in his/her junior or senior year. The recipient is determined by the Executive Board of the Arkansas Health Information Management Association. Interested students should contact the Health Information Management Program office at 1311 N. El Paso, T5 to obtain an application. Application deadline is January 31st.

ATA Endowment Program

A \$300 scholarship for African-American juniors or seniors in accredited teacher education programs in Arkansas colleges and universities. Details may be secured from the Student Aid Office or from Room 207, AEA Building, 1500 West Fourth Street, Little Rock, Arkansas 72201.

FFA Scholarships

The scholarship program for the national FFA organization will be determined jointly by an officer of the University and the FFA organization. Information concerning this program can be secured from the State Department of Education or the Tech Department of Agriculture.

J.D. Knight Scholarship

This scholarship was established by Mrs. J.D. Knight in memory of her late husband, Mr. J.D. Knight, a former member of the Arkansas Tech Board of Trustees. The recipient must be majoring in accounting, business, or economics and must have an interest in banking as a possible career.

Cora McHenry Scholarship for Teaching Excellence

Four tuition scholarships available to minority students committed to teaching in the public school of Arkansas at either the early childhood/middle or secondary level. Two of these scholarships will be awarded to early childhood or middle level education majors and two to secondary majors on a competitive basis. To apply a student should submit a high school transcript, two letters of recommendation from school officials, a brief handwritten essay on why the applicant is interested in teaching, and a record of activities in school, church, and the community to the Director of Teacher Education Student Services, College of Education, Arkansas Tech University. This scholarship is renewable as long as the recipient

maintains a 2.50 grade point average and remains eligible for the teacher education program. Application deadline is April 15.

Pope County Association for Handicapped Scholarships

One or more scholarships of varying amounts awarded annually to students with disabilities who are residents of Pope County and who are enrolled or admitted as post secondary students. Application forms may be obtained from high school counselors or from the Pope County Association for Handicapped, P.O. Box 2512, Russellville, Arkansas 72801.

Pope-Yell County Single Parent Scholarship

Scholarships are awarded each semester to single parents who are residents of Pope or Yell counties. Recipients must have applied for federal financial aid and be eligible for a federal Pell Grant. Application deadline is July 15 for the fall semester and January 15 for the spring semester. Applications are available from Pope-Yell County Single Parent Scholarship Board, River Valley Shelter for Battered Women and Children, Inc. P.O. Box 2066, Russellville, Arkansas 72811.

R. Lewis Urton Senior Rehabilitation Scholarship

An annual grant provided by the Arkansas Rehabilitation Association to a senior major in rehabilitation science. Applications for the scholarship are received during the spring semester. Students interested in applying should contact the Director of the Rehabilitation Science program. Each applicant will be interviewed by a committee made up of members of the Arkansas Rehabilitation Association.

Academic Policy for Students Receiving Federal Student Financial Aid

This policy applies to funds received through the Federal Pell Grant, the Federal Supplemental Educational Opportunity (FSEOG), the Federal Work Study, the Federal Perkins Loan, the Federal Subsidized Direct Loan, the Federal Unsubsidized Direct Loan and the Federal Direct PLUS loan programs.

This policy will be applied automatically and without favor or prejudice. With the exception of certificate and clock hour students, all federal aid recipients' progress is reviewed annually at the end of each spring semester and upon the receipt of each new financial aid application. Certificate students are reviewed at the end of fall, spring and summer two semesters. Clock hour students are reviewed at the end of each payment period. Students who have filed a successful appeal will be placed on an academic plan which will be monitored throughout the course of the plan. Individual students will be reviewed within the semester if notification of a grade change is received by the Financial Aid Office.

Any appeal of this policy must be made in writing to the Financial Aid Academic Policy Appeal Committee and turned in to the Financial Aid Office within thirty days of the notification of the violation. Financial aid will not be paid retroactively for any semester's lost eligibility.

Students must meet all conditions of the policy. Violation of any section will result in loss of aid.

Institutional Academic Suspension

Any student whose name appears on the institutional suspension list will not be eligible to receive aid for their next period of enrollment even if they re-enroll with the approval of the Admissions Council unless summer hours earned at Tech re-establish eligibility.

It is the student's responsibility to notify the Financial Aid Office when they are no longer on the suspension list.

First Undergraduate Degree

A student is considered making satisfactory academic progress if hours earned divided by hours attempted equal 67% or greater. Example: If a student enrolls in fifteen (15) hours and earns nine (9) hours, the percentage equals 60%. Therefore this student is NOT making satisfactory academic progress. On the other hand, if the same student had earned twelve (12) hours, the percentage would equal 80% and the student would be making satisfactory academic progress. Note: Accepted transfer hours are counted as both attempted and earned and are considered in this calculation. Students granted academic clemency will have all semesters attended counted on the basis of attempted hours.

Incomplete, repeat and audit classes are counted as hours attempted, but do not increase hours earned. For repeated courses, only the grade from the best attempt of the repeated course is calculated into a student's cumulative grade point although all grades and all attempts are recorded on the student's academic record. Federal financial aid will pay for only one repeat of a class with a grade of "D" or better. If an incomplete grade is not replaced by an earned letter grade by the end of the next regular semester it will become a grade of "F" and will be considered in the next regular determination of policy progress. No special consideration of the effects of dropping classes will be allowed unless the Student Financial Aid Director is contacted for approval prior to dropping the courses.

A student must receive a bachelor's degree by the end of 180 attempted credit hours, an associate's degree by the end of 90 attempted credit hours and a certificate by the end of 45 attempted credit hours. Allowances will be made for semesters involving required remedial course work, bachelor's degrees which require more than 120 earned hours, associate's degrees which require more than 60 earned hours, and certificates which require more than 30 earned hours. All semesters attended will be counted whether a student received financial aid during the semester or not. Clock hour students must complete their program by the end of 150% of the published length of the program.

Subsequent Bachelors Degree OR Teacher Certification

Any second undergraduate degree or certification must be completed by the end of 45 attempted hours. If a degree is not completed within this time frame, the student may appeal and provide a memo from their advisor detailing the reasons why it was not possible for the subsequent degree to be completed in the required time frame. All hours not applicable to the subsequent degree are then disregarded in the calculation of maximum hours.

Required Grade Point Average First Undergraduate Degree

With the exception of certificate and clock hour students, all students must have a minimum cumulative grade point average (GPA) of 1.0 at the end of their first semester, 1.50 at the end of their second semester, 1.75 at the end of their third semester and 2.0 at the end of their fourth and all subsequent undergraduate semesters or "equivalent transfer semesters." *Example: A student who earns 24 hours in four half-time semesters would be required to have a 2.0 at the end of the fourth semester. While a student who earns 24 hours in two full-time semesters would still have two additional semesters before a 2.0 GPA would be required. Certificate and clock hour students must have a 1.5 GPA at the end of the first semester and a cumulative GPA of at least 2.0 thereafter. No appeal will be granted for anyone in violation of the required cumulative 2.0 GPA.

Any student who fails to meet the required 2.0 GPA will be reinstated once the required GPA is met. However, financial aid will not be paid retroactively for any aid lost because of this requirement. It is the student's responsibility to notify the Financial Aid Office when they have attained the required GPA.

*Transfer students will be assigned an "equivalent semesters attended" based on the number of hours accepted by the Registrar's Office.

Required Grade Point Average Subsequent Credentials or Teacher Certification

Students must maintain a cumulative 2.0 GPA.

Changing Majors

When students change majors they are required to continue meeting all sections of this policy. If the major change causes the student to exceed the maximum number of hours attempted, they may appeal and provide a memo from their advisor detailing the hours from the previous major which do not apply to the current major. All hours not applicable to the new major will then be disregarded in the calculation of maximum hours. The cumulative grade point average will still be considered as the students grade point.

Withdrawals

During each undergraduate or graduate career, a student receiving aid may completely withdraw ONE SEMESTER ONLY or receive all grades of "F" and return the next semester to receive all entitled financial aid. Upon withdrawing any additional semesters or receiving all grades of "F" while on financial aid, the student will not receive aid for their next period of enrollment. The next period of enrollment hours must be equivalent to the number of hours enrolled during the withdrawal semester. (Example: If a student withdraws a second time while enrolled in 12 hours, the student would have to pay for 12 hours before becoming eligible to receive financial aid).

Federal regulations require a calculation to determine how much aid, if any, must be returned to the Federal program when a student withdraws or receives all grades of "F". Students who must repay funds will be notified within 45 days of the amount by the Financial Aid Office.

Application for Federal Student Aid

General - Students use the Free Application for Federal Student Aid and list Tech as one of the schools to receive information. With the exception of Unsubsidized, Additional Unsubsidized Federal Direct and PLUS loans, students must be financially eligible to receive funds from Federal financial aid programs.

Deadline - To receive equal consideration, a student must have a complete application on file by April 15. All remaining funds will be awarded on a first-come, first-serve basis until depleted. **Note: All requested information must be returned to the Financial Aid Office by July 15 to ensure aid availability at the beginning of the fall semester.**

Federal Pell Grant

The Federal Pell Grant provides direct grants from the government to the undergraduate student for educational expenses. Since this is a grant program, the student does not have to repay the amounts received, unless the semester for which a grant is received is not completed.

Under current guidelines, only students who have never received a bachelor's degree and who have not already received the equivalent of twelve semesters of the grant are eligible for the Federal Pell Grant. The university does not determine whether a student is financially eligible. The amount of the grant given to an individual student is based on a schedule provided to the university by the government. No eligible student will be denied a grant.

Federal Supplemental Educational Opportunity Grant Program

The purpose of the Supplemental Educational Opportunity Grant Program is to provide additional funds to qualified students of exceptional need. Each grant is awarded according to federal guidelines.

Student Employment

The University uses student employees when practicable, but students are not encouraged to work to an extent which would hinder their scholastic program. Employment assignments are made under both the Federal College Work-Study Program and the institutional Non-Work-Study Program. To be eligible for student employment, the student must be enrolled at least half-time, successfully pass minimum load requirements, satisfy grade point requirements, maintain satisfactory employer-employee relations and have conduct and personal appearance that reflect credit to the student and the University.

Federal Perkins Loans

Under the program students may borrow up to \$27,500 for undergraduate students and \$40,000 for graduate students. Annual loan limits are \$5,500 for undergraduates and \$8,000 for graduates.

The repayment period and the interest do not begin until six months after the student completes studies. The loan bears interest at the rate of five percent per year and repayment of principal may be extended over a ten-year period. The University approves and makes the loans and is responsible for collections. Repayment is deferred for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic load. Under certain conditions, a part or all of the loan may be canceled if the student enters the teaching profession.

William D. Ford Direct Loan Program

Federal regulations require a delayed disbursement of thirty days for all first-year, first-time undergraduate student borrowers in any Federal Direct Loan program. Additionally, all student borrowers must be enrolled in a minimum of six hours.

Federal Direct Subsidized Loans

The Federal Direct Loan program authorizes loans up to \$3,500 per year for first-year undergraduates, \$4,500 for second-year undergraduates, and \$5,500 per year for undergraduates who have completed two years of undergraduate work. The maximum an undergraduate student may borrow is \$23,000. Under this program a student must financially qualify for the loan. The loan has an interest rate of 6.8 percent.

Repayment of principal and interest ordinarily begins six months after the student leaves school or ceases to be at least a half-time student. However, interest will begin to accrue as of the date the student ceases to be at least half-time. The amount of the monthly payments will be based on the total amount borrowed.

Unsubsidized Federal Direct Loans

The Federal Direct Unsubsidized Stafford Loan has the same loan limits and deferments as the Direct Subsidized Loan. However, the student does not have to be financially eligible for the loan and must either pay the interest while in school or have it capitalized for repayment with the loan principal. The total borrowed in Subsidized and Unsubsidized Direct undergraduate loans may not exceed the student's yearly maximum as shown above. Graduate students may borrow up to \$20,500 for a school year, not to exceed the total undergrad and grad maximum of \$138,500. The loan has an interest rate of 6.8.

Direct Federal PLUS Loans

Parents of students may borrow annually the amount of the student's cost of education minus other aid for each child who is enrolled at least half time and is a dependent undergraduate student. PLUS is limited to parents who do not have an

adverse credit history, and late payments on outstanding obligations are not to be considered as having adverse credit history. The interest rate is 7.9 percent, with the borrower beginning payment within sixty days of loan disbursement. Graduate students may also borrow under the PLUS loan program. They have to meet the same credit history requirements, must apply for Federal financial aid and may borrow up to the cost of attendance less other financial aid. As with the Parent PLUS, the interest rate is 7.9%.

Additional Federal Direct Unsubsidized Loan

Dependent students may borrow \$2,000 per year for four years. Independent students may borrow up to \$6,000 per year for the first two years of undergraduate study and \$7,000 per year thereafter with an undergraduate maximum of \$34,500. Borrowers do not have to show need but do have to apply for financial aid. The interest rate is 6.8 percent. Students are responsible for paying the interest that accrues on the loan from the time the loan is disbursed until it is paid in full but have the option to defer interest payments while in school and have the interest added to the amount borrowed.

Mr. Tommy Memorial Student Loan Fund

Arkansas Tech has a special loan fund known as the "Mr. Tommy Memorial Student Loan Fund." This fund was established by Arkansas Tech alumni as a memorial to the late E.S. Tomlinson, for many years head of the biology department. Supplementing lesser contributions by hundreds of former students is the Margaret McFadden Lykes, Jr., contribution. Loans from this fund are limited in amount and intended primarily for emergency aid to students. One semester of successful residence is required of all students applying for these loans. Information relative to this fund may be obtained from the Student Services Office.

Dr. James I. Balch Student Loan Fund

An interest-free loan to be repaid in installments of twenty percent, forty percent, and forty percent at nine, eighteen, and thirty-six month intervals. A student must be a junior or senior with a 3.0 cumulative grade point average, must demonstrate financial need, and must file a separate loan application. Information regarding the application process is available through the Financial Aid Office.

Arkansas Department of Higher Education Programs

The programs listed below are awarded and administered by the Arkansas Department of Higher Education. Further information may be obtained by writing to: Arkansas Department of Higher Education, 114 East Capitol, Little Rock, AR 72201, or by calling (479) 371-2000, or 1-800-547-8839 or at www.adhe.edu. The application for all programs is available on-line.

Higher Education Opportunities Grant (GO! Opportunities Grant)

The GO! Grant provides \$1000 grants to full-time and \$500 grants to part-time students based on financial need. Students must be an Arkansas resident for at least 12 months prior to applying for the grant. Students also must meet the financial need criteria established for the GO! Grant and attend an approved Arkansas Institution. Applicants must complete the Free Application for Student Aid (FAFSA). Application deadline is June 1.

Arkansas Academic Challenge Scholarship Program

Due to additional funding made possible by the Arkansas Scholarship Lottery, the Arkansas Academic Challenge Scholarship has been expanded to provide opportunities for higher education to previously unserved Arkansans (traditional & non-traditional students). The scholarship will be available to high school seniors and non-traditional students who are Arkansas residents. High school students are eligible if they have completed the Smart Core Curriculum with an overall grade point average of at least a 2.5 or have an ACT composite score of at least 19. Non-traditional students who graduated from an Arkansas public high school must have a high school grade point average of at least a 2.5 and have an ACT composite score of at least 19 or have completed at least twelve college semester hours with a college grade point average of at least 2.5. There are no income restrictions but students still must complete the Free Application for Federal Student Aid. The application deadlines are June 1. The scholarship award amount will be determined annually in early Spring.

The Workforce Improvement Grant

A need based grant for non-traditional students who are at least 24 years old. The program's goal is to help those students returning to school who have financial need but might not be eligible for assistance from traditional state and federal programs. The annual award is a maximum of \$2,000 for a student enrolled full time (12 semester hours), but may be less in order to prevent an overaward as defined by Federal regulations. Students enrolled part time will have their grants prorated based on the number of hours enrolled. Because the grants are not renewable, students must apply each year by completing a FAFSA by July 1 of each year.

The State Teacher Education Program (STEP)

The State Teacher Education Program (STEP) provides Federal student loan repayment grants of up to \$7,000 to Arkansas residents who earned a teaching degree after 4/1/2004, are teaching in a public school in a geographical and/or subject shortage area or who are minorities. Application deadline is June 1.

Governor's Scholars Program

The Governor's Scholars Program provides \$4,000 merit grants each year to seventy-five of Arkansas' academically superior high school graduates in order to assist them in their undergraduate studies at approved colleges or universities in Arkansas. The scholarship is renewable for up to three additional years provided the student meets the continuing eligibility standards. Applications should be submitted prior to February 1 of high school graduation year.

Governor's Distinguished Scholars

The Governor's Distinguished Scholars Program provides a tuition, mandatory fees, and room and board not to exceed \$10,000 per year to students who achieve 32 or above on the ACT or 1410 on the SAT or are a National Merit Finalist attending an approved Arkansas public or private college or university. The scholarship is renewable for up to three additional years provided the student meets the continuing eligibility standards. Application deadline is February 1 of high school graduation year.

Law Enforcement Officer's Dependents Scholarship

The Law Enforcement Officers' Dependents Scholarship (LEO) provides a waiver of tuition, fees, and room at any public college, university, or technical institute in Arkansas for dependents and spouses of Arkansas law enforcement officers, some Highway and Transportation Department employees, and other public employees, who were killed or permanently disabled in the line of duty. Application deadlines are June 1 and November 1.

Military Dependent's Scholarship

The Military Dependent's Scholarship Program provides a waiver of tuition, fees, and on-campus room and board to full-time students at any public college, university, or technical institute in Arkansas for dependents and spouses of Arkansans who were killed or missing in action or who were prisoners of war or who are totally and permanently disabled. All applicants must also apply for and show acceptance or denial of the Federal dependent's Educational Assistance Program. Application deadlines are June 1 and November 1..

Teacher Opportunity Program (TOP)

The TOP program offers reimbursement grants to cover tuition and fees for up to six hours per fiscal year to current Arkansas teachers seeking to further their education..

Arkansas National Guard Tuition Incentive Program (G-TIP)

The Arkansas National Guard Tuition Incentive Program (G-TIP) provides up to \$5,000 per year to Arkansas residents who are active members of the Arkansas Army/Air National Guard. Applications may be obtained from the unit commander or online at <http://www.arguard.org/Education/ta.asp>

Other Sources of Assistance

Military Activation

Students who cease attendance at Arkansas Tech University without completing and receiving a grade in one or more courses due to military activation or deployment may receive compensation for the resulting monetary loss as provided by Act 85 of 2005. Please contact the Registrar's Office for information.

Arkansas National Guard

Act 82 of 2005 provides a tuition and waiver assistance program for soldiers and airmen of the Arkansas National Guard. Members of the Arkansas National Guard should contact the Student Accounts Office for information.

Over 60 Tuition Waiver

Arkansas residents who are sixty or older on the first day of class may have tuition and fees waived upon completion of certification of eligibility. Students must notify the Financial Aid Office each semester of the number of enrolled hours which need to be waived. Applications are available in the Financial Aid Office.

Workforce Investment Act

The Workforce Investment Act is a federal program which provides financial assistance to individuals in need. The program's primary targets are individuals with barriers to employment and dislocated workers. Candidates who meet eligibility requirements will receive tuition and book scholarships for two years to complete an associate degree at Arkansas Tech University. WIA is an equal opportunity employer/program. Auxiliary aids and services are available upon request to individuals with disabilities. Requests for information about eligibility may be made through the WIA office, 104 S. Rochester, Russellville, AR 72801; telephone 968-4919; TDD/ARS: 1-800-285-1131.

Vocational Rehabilitation Assistance

Persons who have substantial handicap to employment as a result of a permanent disability may receive, at no cost to themselves, vocational counseling and some financial assistance toward the cost of their college training when the vocational objective of the disabled person is approved by the Vocational Rehabilitation Counselor. These services are available through the Division of Rehabilitation Services, 1401 Brookwood Drive, Little Rock, Arkansas 72203. Application for assistance or request for information about the program may be made to that address or to a local rehabilitation counselor.

Veterans Benefits

Arkansas Tech University is approved by the State Approving Agency for Veterans as a school (college, university, etc.) whereby veterans and dependents of deceased or disabled veterans may obtain subsistence while working toward a degree. Eligible students should contact the Office of Veteran Services to obtain information regarding school attendance under the following program: Title 38, Chapter 30, Montgomery GI Bill for Veterans; Title 38, Chapter 32, Veterans Educational Assistance Program (VEAP); Title 38, Chapter 33, Post-9/11 GI Bill; Title 38, Chapter 35, Survivors and Dependents Education; Title 10, Chapter 1606, Montgomery GI Bill for Selective Reserves; and Title 10, Chapter 1607, Reserve Educational Assistance Program.

All students must be working toward a degree and should follow the curriculum outline for their objectives, since only specific courses may be applied toward VA certification and graduation. Veterans may be given placement credit for prior military training. The Office of Veteran Services is available to assist students concerning VA benefits. The Office of Veteran Services is located in the Doc Bryan Student Services Center, Office 163.

Enrollment certification will not be sent to the Department of Veteran's Affairs until transcripts are on file and the person applying for veteran's benefits has been admitted to the University.

Activities and Organizations

There are more than 100 student organizations at TECH. Students can choose to join any organization ranging from Academic/Professional, Fine Arts, Fraternity/Sorority, Honorary, Multicultural, Recreational, Religious, Special Interest and Student Governance. Through these organizations students learn to function successfully in their chosen occupational fields, achieve greater cultural appreciation and personal happiness and develop concepts of responsibility and service to others.

The overall goal of student organizations at TECH is to provide students additional educational tools which will assist them outside the classroom. It is well documented that student who are involved in campus activities are more likely to complete educational goals.

Please visit our website at www.atu.edu/clubs to see a list of all the registered student organizations at Arkansas Tech University.

Scholarships

Foundation General Scholarships

The student is responsible for submitting the Foundation General Scholarship Application, and all documentation listed in the scholarship criteria to the Office of Development. The application and all required documentation must be received by March 15 (i.e., applicant letter, reference letters, etc.). Only one application and documentation is required for multiple Foundation General Scholarships.

Documentation must include a letter from the applicant explaining the need for the scholarship, special family circumstances, and career goals. And three letters of recommendation from any of the following: Arkansas Tech faculty, High School Counselor, Principal, Pastor, Employer, or someone familiar with your work ethics and family situation.

The applicant will be considered for all scholarships through the Office of Development where all the criteria requirements have been fulfilled.

Submit Application Packet to:

Office of Development
1509 N. Boulder Avenue ADM 209
Russellville, AR 72801-2222

All applications and documentation must be received by March 15.

Multi-department Majors

J.L. Adkins and Cora E. Adkins Scholarship

Established at the bequest of J.L. and Cora E. Adkins, annual scholarship awards are made to students pursuing a degree in Education or Fine Arts. While preference will be given to Arkansas Tech students from the Missouri counties of Dunklin, Stoddard or New Madrid, any Education or Fine Arts major is eligible to apply. Awards will be made each year that funds are sufficient.

Dr. Robert Autry Brooks Scholarship

Through the generosity of Dr. Robert Autry Brooks, scholarships will be granted each fall semester that funds are sufficient. Preference will be given to a traditional incoming freshman who is an Arkansas resident majoring in one of the Arts or Sciences (including, but not limited to English, Literature, Mathematics, and Chemistry). The recipient must have a high school cumulative grade point average of 3.0 or higher, maintain full-time student status and have demonstrated financial need. The scholarship may be renewable with the original recipient for three additional years if the recipient continues to remain in good academic standing and making academic progress, enroll in and successfully complete a full-time academic class load per semester.

Denton-Wainright Endowed Scholarship

This scholarship was established by Cheryl Denton in memory of Dr. John Wainright and Joan Wainright in recognition of the difference they made in the lives of Tech students through their support and guidance. Joan Wainright was on the music faculty from 1955 to 1982. Dr. John Wainright, at Tech from 1952-1981, was on the faculty in music and education. He was named Dean of Education in 1970 and served in that capacity until 1981. Scholarships and awards will be granted each fall that funds are sufficient in accordance with the following criteria: The recipient must be a junior or senior majoring in music education with the intent to teach elementary music or education: preference order (1) music education-keyboard instrumental (2) music education-keyboard vocal (3) music education-vocal (4) English education or (5) education. In addition the recipient must maintain full-time student status, and have demonstrated financial need. The scholarship may be renewed for the spring semester provided the recipient continues to meet the scholarship criteria and funds are sufficient. Scholarship recipients from one year will be eligible to reapply for subsequent years.

Vann Kerns Memorial Scholarship

This scholarship will be awarded each year that funds are sufficient. Preference will be given to students pursuing a degree in physics, mathematics, or a pre-medical school course of study. To be considered for this award, students must have a cumulative grade point average of 3.0 or higher, have demonstrated financial need and enroll in and successfully complete a minimum of fifteen hours each semester.

Jack L. King Scholarship

This partial-tuition scholarship will be awarded each semester that funds are available. To be eligible for this scholarship the student must be a graduate of Western Yell County High School, have an ACT composite score of 19 or above and an ACT Math and Science score of 22 or above, have declared a major in Engineering, Math, Science or a related field at Arkansas Tech University.

Charles D. and Edna B. Labahn Scholarship

This tuition, fees, and book scholarship will be awarded each year that funds are sufficient. Applicants should be an incoming freshman who has graduated from an Arkansas High School with a "B" grade point average or higher. Applicants must have demonstrated financial need, have declared a major in Accounting, pre-med, or Recreation and Parks Administration, and have full-time student status. Submit two letters of recommendation from high school teachers and/or counselors with the application. This scholarship is renewable for up to seven consecutive semesters, provided the recipient continues to maintain a 2.5 or higher cumulative grade point average, maintains full-time student status, and specifically requests such renewal.

Lloyd D. McDaniel Engineering or Computer & Information Science Scholarship

Scholarship awards will be granted each year that funds are sufficient to any level student who has declared a major in Engineering or Computer and Information Science, has a grade point average of 3.0 or higher, has demonstrated financial need, and submits the private scholarship application in writing. To be eligible for this scholarship, students must be enrolled in the appropriate classes and be under the direction of an Engineering or Computer and Information Science advisor for the semester of the award. Awards may be renewed until graduation if the student maintains a cumulative grade point average of 3.0 or higher, remains a major in Engineering or the Computer and Information Science program and is making satisfactory progress toward an Engineering or Computer and Information Science degree.

P. K. Merrill Memorial Scholarship

This scholarship is given to a junior or senior majoring in sociology or history.

Greg A. Parks Memorial Scholarship

A partial tuition scholarship will be granted each semester that funds are available to a junior or senior level student majoring in psychology or pre-med (biology or chemistry). Applicants must be enrolled in 15 credit hours or more, have a minimum cumulative 3.0 grade point average, and demonstrate financial need. The initial recipient shall be eligible to retain the scholarship for up to three additional consecutive semesters provided he/she enrolls in and successfully completes 15 credit hours and maintains a cumulative 3.0 grade point average.

Glori Ann Perkins Scholarship

The awarding of this scholarship will alternate between art/art education and engineering majors. The applicant must be a junior level student, enrolled in 15 semester hours or more, maintain a cumulative 3.2 or higher grade point average, have demonstrated financial need, and be a student legally present in the United States. This scholarship may be renewed three additional consecutive semesters provided the recipient enrolls in and successfully completes a 15 hour course load each semester, maintains a cumulative 3.2 grade point average, and is on track to graduate by the end of the fourth semester.

Pope County Cattlewomen's

A \$500 one-semester scholarship will be granted each fall that funds are available. The recipient must be a freshman or sophomore level student with a GPA of 2.5 or higher, full-time student enrolled in at least 12 semester credit hours, and have demonstrated financial need. Preference will be given to a Pope County resident. Recipient must be enrolled in a minimum of one course in the department of agriculture or be pursuing a degree in pre-veterinary science or biology. Preference will also be given to students who themselves or their parents or grandparents are members of the Pope County Cattlemen's Association (submit copy of receipt or letter, if applicable). Applicant must submit one educational and one personal letter of recommendation, and a letter of application that expresses the student's need and goals, specifically career goals as they relate to agriculture.

Pope County Farm Bureau

Two \$500 scholarships will be awarded each fall semester that funds are available to Pope County students majoring in a degree program within the Department of Agriculture or Department of Nursing. Preference will be given to students whose parents or grandparents are members of Pope County Farm Bureau. Recipients will be full-time students, with sophomore classification or higher, and a cumulative grade point average of 2.5 or higher. The scholarship is renewable for the spring semester if the student maintains a 2.5 grade point average and successfully completes a 12 credit hour course load during the fall semester. The recipient is eligible to reapply in subsequent years.

Reeves Ritchie Scholarship

An annual scholarship in the amount of \$1,500 awarded to a senior majoring in electrical engineering. Preference will be given to a student who plans to reside in Arkansas after graduation. Mr. Ritchie, now retired, was a long-time president of Arkansas Power & Light (now Entergy).

Louise Berkeley Turner Scholarship

This partial-tuition scholarship will be awarded each fall semester that funds are available to a student majoring in math, science or a related field and may be renewed for one consecutive semester provided the recipient is making sufficient academic progress.

Yell County Wildlife Federation Scholarship

A \$500 scholarship award will be granted each spring that funds are available. The recipient will be a second-semester freshman or higher in classification with a 2.5 or higher cumulative grade point average, majoring in Fisheries and Wildlife or Parks and Recreation and demonstrated financial need. Recipient selection in order of preference will be: (1) a

Fisheries and Wildlife major from Yell County, (2) a Parks and Recreation major from Yell County, (3) any qualified Fisheries and Wildlife major, (4) any qualified Parks and Recreation major. If no qualified student is identified from the specific preference categories listed above, the scholarship funds will be carried forward to the following year. The recipient must attend the January Federation meeting to have a picture made receiving the scholarship.

No Specific Major Required

Susan Adams Memorial Scholarship

The family and friends of Susan Adams have established a scholarship in her memory. The amount of the scholarship will be credited toward tuition for the recipient. Although any worthy student is eligible to receive the scholarship, preference in selection will be given to out-of-state students who are children of Tech graduates.

Heartsill and Polly Bartlett Scholarship

Preference will be given to a student who is a traditional, incoming freshman from Pope or Yell County, Arkansas, has a cumulative grade point average from high school of 2.0 or higher, has demonstrated financial need and is planning to attend Arkansas Tech University full-time. To be considered for this scholarship, applicants must submit a letter of application and a letter of recommendation from their high school counselor in addition to a completed scholarship application. This scholarship may be renewable at the discretion of Arkansas Tech University if the recipient is making acceptable academic progress. Scholarships will be awarded each year that funds are sufficient.

Janet Beck Memorial Scholarship

This memorial scholarship has been established by the parents and friends of Janet Beck in honor of her many accomplishments. Awards will be made each year that funds are sufficient with the initial recipient being a graduating senior from Nemo Vista High School. In addition, a second recipient will be chosen on an alternating basis from either Sacred Heart or Wonderview High School. In the event that no applicant meets the specified criteria in a given year, this scholarship may go un-awarded for that year. Two letters of recommendation from high school teachers and/or counselors should accompany the scholarship application.

B. J. Burton Memorial Scholarship

Scholarships and awards will be granted each fall that funds are sufficient. The recipient must be a member of the Arkansas Tech Softball Team, with full-time student status, sophomore level or higher, and have a cumulative grade point average of 2.5 or higher. Demonstrate financial need. The scholarship may be renewed for the spring semester provided the recipient continues to meet the scholarship criteria and funds are sufficient. Scholarship recipients from one year will be eligible to reapply for subsequent years.

Judge J. E. Chambers Scholarship

Proceeds from an endowment by the family of the late Judge John E. Chambers provide scholarships for outstanding applicants from Danville, Western Yell County or Dardanelle high schools. Academic promise and service to school and community will be heavily considered in determining the recipient. Submit application with two supporting letters of recommendation.

John Clement / First State Bank Scholarship Fund

Established by the First State Bank, this scholarship honors John Clement for his many years of service to the River Valley community. Scholarship applicants must be an entering freshman who graduated from Ola or Plainview, have the recommendation of their high school counselor as being qualified to complete a higher education curriculum. Additionally, applicants must have demonstrated financial need and not have access to other scholarships or grants which will completely pay their education costs.

Connie V., Loretta M., & Elora C. Coker Scholarship

This scholarship will be awarded each year that funds are sufficient. Preference will be given to an incoming freshman, a graduate of Two Rivers School District in Arkansas, and enrolls in 15 semester credit hours or more. This scholarship may be renewed for the freshman spring semester if the recipient continues to enroll in 15 credit hours and maintains a cumulative 2.0 grade point average or higher. If the recipient meets the scholarship renewal requirements of the freshman year, the scholarship may be renewed for an additional six consecutive semesters provided the recipient enrolls in and successfully completes 15 credit hours each semester and maintains a cumulative 2.5 grade point average or higher.

Angelo and Rosa Denova Graduate History Award

The recipient of this award will be selected by a History Department Paper Prize Award Committee. It is open to any student enrolled in a graduate History course at Arkansas Tech, regardless of major, during the current award cycle. Students should submit a scholarly paper written during the current award cycle in a History class at Arkansas Tech. Specific Submission Guidelines are available from Department of History and Political Science.

Nicki Goodlett Memorial Scholarship

A scholarship award will be made each year that funds are available. The student must meet the following criteria: be an Arkansas resident, full-time student, be of sophomore classification (30 credit hours) or higher, have a 2.0 cumulative GPA or higher, receiving no other scholarships. Applicants should submit a letter of application expressing need and

goals, three letters of recommendation from a pastor, faculty member, or other who can articulate the applicant's background, financial situation, and goal: and show performance that reflects an ability to successfully attain a college degree and demonstrates a significant trend toward academic improvement.

Heard Scholarship

The Heard Scholarship established by John W. Heard will be awarded each fall semester that funds are available. The student must be an entering freshman graduating from Lamar High School with a cumulative GPA of 2.5 or higher. Enroll in and successfully complete 15 hours class load per semester. An applicant letter explaining need and goals and letters of recommendation from high school counselor and principal should accompany the scholarship application.

Savannah Kaitlyn Hintze Memorial Scholarship

This scholarship, established by the family and friends of Savannah Kaitlyn Hintze, will be awarded each year that funds are available to a full-time entering freshman. To be considered for this award, students must have a cumulative grade point average of 2.5 or higher and demonstrated financial need. Applicants should submit a letter of application that expresses need and goals. Also, the letter should include the applicant's views on volunteerism and community involvement. This scholarship is renewable for the spring semester, provided the recipient continues to meet the criteria.

Charles and Carol Lee Ketcheside Scholarship

Scholarships will be granted each year that funds are sufficient to a full-time student who is in good academic standing and has demonstrated financial need.

M. E. Maxwell Scholarship

The scholarship will be awarded each year funds are sufficient to a student who has been a Pope County resident for a minimum of five years, has an ACT composite score of 21 or above, a minimum cumulative grade point average of 3.0 or higher, is a full-time student, and demonstrates financial need. Recipients may re-apply for subsequent years.

George C. McCarty Memorial Scholarship

This scholarship is based on financial need of a male student. A scholarship award will be made each fall semester that funds are sufficient.

Mitchell-Keathley Scholarship

Established in honor of Mr. and Mrs. Bobby Keathley and Mr. Boss Mitchell, this scholarship will benefit graduates of Danville High School. To be eligible for this scholarship, the applicant must have attended Danville High School (Danville, AR) for the last four semesters prior to graduation and be accepted for admission to Arkansas Tech University. Additionally, high school grade point average, ACT score, leadership roles in school and community, and financial need will be considered.

Van & Marilyn Moores Scholarship

This partial-tuition general scholarship will be awarded annually. Most awards are made to incoming freshmen.

Harold and Jackie Neal Scholarship

A scholarship awarded each year that funds are sufficient to a deserving Arkansas Tech University student who demonstrates financial need and is making acceptable academic progress.

Rexann Oller International Students Scholarship

The Rexann Oller International Students Scholarship will be awarded each year to an international student who shows academic achievement in international affairs and/or strong background and interest in international relations. This scholarship is open to all Arkansas Tech International undergraduate and graduate students who have a minimum GPA of 3.0. Preference will be given to students with demonstrated financial need. Recipients of other tuition scholarships are not eligible to apply. Please contact the office of ATU International Student Services and the Dean of Graduate Studies or full application requirements.

Anita Page Memorial Scholarship

The recipient of this scholarship must work a designated number of hours per week in a department related to the student's major.

Joe Murphy Undergraduate History Award

The recipient of this award will be selected by a History Department Paper Prize Award Committee. It is open to any student enrolled in an undergraduate History course at Arkansas Tech, regardless of major, during the current award cycle. Students should submit a scholarly paper written during the current award cycle in a History class at Arkansas Tech. Specific Submission Guidelines are available from Department of History and Political Science.

Tate Page Family Scholarship

The family of the late Dr. Tate Page has endowed a scholarship in his memory which will be awarded annually.

Jim Price Memorial Scholarship

Friends and members of the Church of Christ have established an endowed scholarship fund in memory of Jim Price to assist students who are members of the Church of Christ. The scholarship is awarded on a semester basis and can be

renewed for one additional semester. To be eligible, a recipient must have completed 24 or more hours at Arkansas Tech with a "C" average or better. Applicants may contact the Jim Price Memorial Scholarship Fund Board of Directors at the Church of Christ Student Center in Russellville. Students should be recommended by their home congregation.

A.L. & Verneil Reed Scholarship Fund

Established through the generosity of Mr. and Mrs. Reed, this scholarship shall be awarded each year that funds are sufficient to an undergraduate student who meets the entry requirements of Arkansas Tech and can provide proof of an earned cumulative grade point average of 3.0 or higher as reflected on an official high school transcript. In addition, applicants must enroll as a full-time student, successfully maintain that full-time status and have demonstrated financial need.

Davidson Roy Scholarship

Awarded each year that funds are sufficient, this scholarship will be awarded to students who have a proven record of academic achievement and demonstrated financial need.

Russellville Kiwanis Club Jack Holloway / Joe Ray Scholarship

This endowed scholarship has been established by the Russellville Kiwanis Club through the Arkansas Tech University Foundation for the purpose of providing scholarships for students attending Arkansas Tech University. This scholarship is in memory of Jack W. Holloway who was an active Kiwanian for over 30 years and a veteran of WW II. Joe Ray was from Havana and served in the Arkansas Senate. Scholarships will be granted each year that funds are sufficient with preference given to students who have graduated from high school in Perry, Yell, Newton or Pope County, have maintained a high school grade point average of at least 2.5 on a 4.0 scale and are planning to attend Arkansas Tech University on a full-time basis. Scholarships will be awarded for a period of one year. However, students may re-apply for subsequent years if they maintain a cumulative grade point average of 2.5 or higher at Arkansas Tech University.

Russellville Noon Lions Club Scholarship

A scholarship will be awarded to a local student who exhibits academic ability, leadership, and financial need. Recipient will be required to attend a meeting of Russellville Noon Lions Club.

Russellville Rotary Club Scholarship

A scholarship is awarded each year to a Pope County student. Applications may be made each summer to the Rotary Club through any of its members.

Mary Teresa Shinn Scholarship

The scholarship is given in memory of Mary Teresa Shinn.

Kenneth and Janice Sutton Scholarship

Through the generosity of Kenneth and Janice Sutton, a scholarship has been established to assist students who are residents of Stone County, Arkansas. The recipient will be an entering freshman, who is attending Arkansas Tech the fall immediately following high school graduation, have a high school cumulative grade point average of 3.0 or higher, have an ACT score of 21 or higher, be enrolled as a full-time student, and have a letter of recommendation from the high school guidance counselor or teacher. The scholarship is renewable for the spring semester provided the student completed a full-time course load in the fall with a 2.5 grade point average and enrolls as a full-time student in the spring semester.

Mary Elizabeth Ragland Urton Memorial Scholarship

An award will be given each year that funds are sufficient to a deserving female student who has maintained a minimum grade point average of 2.5; practices her leadership skills; and exemplifies ethical and moral values.

Alfred and Martha Brownlee Vance Scholarship

An annual scholarship for an incoming freshman will be awarded each year funds are sufficient. Preference will be given to a Pope County resident.

Vance Family Scholarship

The annual scholarship will be awarded when funds are sufficient.

Jessie Rye Wade Scholarship

This scholarship will be awarded each year that funds are sufficient to full-time students who exhibit academic progress and have demonstrated financial need. To be considered, applicants must submit a completed application along with a letter of recommendation from an Arkansas Tech University faculty member.

Eugene and Hazel Weir Educational Trust

This scholarship was established to provide scholarships to qualified Arkansas Tech University students from Pope County, Arkansas. Mrs. Weir graduated from Atkins High School, attended Arkansas Tech and then went on to teach in Pope County schools for 48 years, including many years in Russellville.

Robert Hays and Martha Williams Scholarship

The Robert Hays and Martha Williams tuition scholarship is awarded to an incoming freshman annually. The recipient must be a resident of an Arkansas county within 100 miles of Arkansas Tech University. The student must have

maintained a “B” average through high school, participated in school activities, possess the quality of good citizenship and have financial need.

Ted and Betty Williams Scholarship

In honor of Ted and Betty Williams, this scholarship has been established to provide scholarships during the fall and spring semesters for students who demonstrate financial need, maintain a cumulative grade point average of 3.0 or higher, enroll in and successfully complete a minimum of fifteen hours each semester, and exhibit leadership potential as demonstrated by extracurricular achievements. Scholarship recipients from one year will be eligible to re-apply for subsequent years. Applicants must submit a written application to the Director of Enrollment Management in a process that will be administered by the Office of Academic Affairs. This scholarship requires a separate application which is available through the Admissions Office in the Student Services Building.

Teresa Williams Memorial Endowment Scholarship

Endowed scholarships to Arkansas Tech will be awarded to qualified high school graduates of Benton, Arkansas.

Yell County Scholarship

This partial-tuition scholarship was established by an anonymous donor and is to be awarded to deserving students from Yell County.

College of Business

Jasper Vernon Howard Scholarship

An endowed scholarship in memory of Jasper Vernon Howard will be awarded annually to a student in the College of Business. The recipient must demonstrate a financial need and must meet and maintain satisfactory scholastic requirements.

Bert and Annette Mullens Scholarship

This partial-tuition scholarship is awarded each year that funds are sufficient to an incoming freshman majoring in business. Preference is given to a Pope County resident. Award is based on GPA, financial need and test scores.

Regions Bank Scholarship

This scholarship will be awarded each year that funds are sufficient to a junior or senior level student majoring in a degree program within the College of Business, enrolled in a 15 credit hour or more course load, with a cumulative grade point average of 3.0 and demonstrated financial need. This scholarship can be renewed for up to three consecutive semesters provided the recipient enrolls in and successfully completes a 15 credit hour course load each semester and maintains a 3.0 grade point average.

College of Education

J. Louis and Florence C. Cooper Scholarship

This scholarship was established by educators J. Louis and Florence C. Cooper for needy and deserving individuals with priority being given to students in teacher education. To be eligible for this award, the student must have reached the junior or senior level, have a cumulative grade point average of 3.0 or higher, demonstrated financial need and enroll in and successfully complete a minimum of 15 credit hours per semester.

John Paul Leonard Memorial Scholarship

This scholarship will be awarded each fall that funds are sufficient. Preference will be given to a female student who is from Russellville, Arkansas, has reached junior or senior status in her undergraduate career, has demonstrated financial need, has declared a major in and is planning to pursue a career in teaching children with special educational needs, maintains a cumulative grade point average of 3.0 or higher, enrolls in and successfully completes a full-time academic class load. In addition, this scholarship is renewable for the spring if the recipient continues to meet the stated criteria.

College of Arts and Humanities

Baiyan Chen Memorial Scholarship

Dr. Qing Zeng has established a scholarship in memory of her mother, Ms. Baiyan Chen (陈白燕女士, January 3, 1918—September 28, 2009), who was a high school teacher of language and literature in China. A scholarship will be awarded each fall based on the following criteria: preference will be given to a female student, junior or senior status, full-time student with preference given to a student seeking a degree within the Department of Behavioral Sciences, cumulative grade point average of 2.5, and must demonstrate financial need.

Bill Preston Donnell Memorial Art Scholarship

The family and friends of Bill Donnell, a 1993 Tech graduate in graphic design, have established a tuition scholarship as a tribute to his memory. Each year the funds from the Bill Donnell, Jr., Memorial Golf Tournament hosted by Chamberlyne Country Club will be contributed to the scholarship account. This scholarship will be awarded each fall term to an entering freshman or current student who is majoring in art. Preference will be given to students who demonstrate financial need, who are residents of Yell County, and/or who plan to study emphasis in graphic design.

T. A. Dulaney Memorial Scholarship

Awards will be granted annually if funds are sufficient. Recipients will be chosen based on the following criteria: a junior or senior student who has declared a major in history or political sciences, demonstrated financial need, and enrolled in a semester course load of 15 hours or more. Preference will be given to a student who plans to teach. The recipient may re-apply for the scholarship.

Gene Farmer Memorial Award

A grant is awarded to an Arkansas high school editor who plans to specialize in either journalism or political science at Arkansas Tech University. This award, to honor and encourage a student of outstanding ability, will be made to the high school editor whose academic and journalistic accomplishments indicate the greatest potential for distinguished service in either field. The award, from the income of the Gene Farmer Memorial Endowment, is in memory of one of Arkansas Tech's most distinguished graduates, who from a beginning as editor of Tech's student newspaper, achieved national and international prominence as a journalist. Mr. Farmer authored several books and worked for many years as a senior editor for Life Magazine.

International Relations Scholarship

Awards will be made each year that funds are sufficient to a sophomore, junior, or senior level student majoring in History/Political Science with a cumulative 3.0 or higher grade point average. Preference will be given to a veteran, current active duty military, National Guard, or member of the Reserve Armed Forces. The student must have completed at least 6 credit hours (with a "B" or better) from the following courses or completed 3 credit hours (with a "B" or better) and enrolled in 3 or more credit hours in the following International Relations or Foreign Policy courses: POLS 3013, POLS 3403, POLS 3413, POLS 4963 (with an international focus), POLS 4983 (with an international focus).

Russellville Kiwanis Ark River Valley Arts Center

Scholarships will be granted each year that funds are sufficient. The applicant must be a full-time student who has graduated from high school in Pope or Yell County, Arkansas, have achieved sophomore status, majoring in Fine Arts, and maintains a cumulative grade point average of 2.5 or higher. Recipients of this scholarship will be required to volunteer at least two hours per week at the Arkansas River Valley Arts Center for each semester that they receive this award. This scholarship is automatically renewable for an additional two years if the recipient maintains the required criteria.

T-Smooth Scholarship Project

Through the generosity of T. J. Smith, a scholarship fund has been established through the Arkansas Tech University Foundation. An award will be made each fall that funds are available to a full-time student with a declared major in journalism. An entering freshman must have a 3.0 or higher grade point average and a 21 ACT score; a sophomore or higher classification must have a 2.75 cumulative college grade point average. The recipient must demonstrate financial need and must submit an essay that clearly details why journalism was chosen as a major and how the student plans to use the journalism degree. This scholarship is renewable for the spring semester as long as the recipient continues to meet the above criteria. The recipient is not eligible to re-apply for subsequent years.

College of Natural and Health Sciences

Markey Butterworth Scholarship

An endowed scholarship in memory of Markey Butterworth is given annually to an out-of-state student majoring in Fisheries and Wildlife Biology.

Harry T. Casner Memorial Scholarship

This scholarship will be awarded each fall that funds are sufficient with preference being given to an incoming freshman who plans to major in Mathematics, is an Arkansas resident, has demonstrated financial need, has earned a high school cumulative grade point average of 2.5 or higher, submits a letter of recommendation and an applicant letter with the scholarship application. In addition, the scholarship may be renewable if the recipient enrolls in and successfully completes a full-time academic load of 15 hours per semester and maintains a cumulative grade point average of 2.5 or higher.

First United Methodist Church Scholarship

An endowed scholarship has been established by the First United Methodist Church in Russellville to assist Methodist students who are nursing, medical assistant, health information management, or medical technology majors at Arkansas Tech. Students majoring in nursing will receive first consideration. Students should be recommended by their home church pastor.

Eupha Sue Knox Scholarship for Nursing

A scholarship will be awarded each semester that funds are sufficient to an upper division nursing student who is enrolled in a minimum of 15 credit hours. Preference will be given to Arkansas residents that have demonstrated financial need. Recipients may re-apply for further consideration in subsequent years.

Earlene Mullins Nursing Scholarship

This scholarship will be awarded each semester that funds are sufficient to an upper division nursing student who is enrolled in 15 credit hours or more, and has demonstrated financial need. Preference will be given to applicants who are single parents. Each award will be for one semester but recipients may re-apply for further consideration.

St. Mary's Regional Medical Center Nursing Scholarship

This scholarship will be awarded each semester that funds are sufficient. The recipient will be a junior or senior level student majoring in Nursing, enrolled in a minimum of 15 credit hours, with a cumulative GPA of 3.0 or higher, and must demonstrate financial need. Special consideration shall be given to students who are conversant in Spanish or taking Spanish courses and intend to stay in the Russellville area after graduation. The scholarship is renewable for up to three consecutive semesters as long as the student enrolls in and successfully completes course load of 15 credit hours and maintains a 3.0 or higher grade point average.

Penny L. Wheeler Memorial Scholarship

A scholarship is awarded annually to the most deserving nursing student based upon high school record, need, and test scores.

College of Applied Sciences

Justin B. Collins Memorial Scholarship

This scholarship, established by the family and friends of Justin B. Collins, will be awarded each year that funds are sufficient to a full-time student pursuing a degree with the Department of Emergency Management. To be considered for this award, students must have a cumulative grade point average of 2.5 or higher and demonstrated financial need. Preference will be given to a student from Magazine, Arkansas. This scholarship is renewable for the spring semester, provided the recipient continues to meet the criteria.

Feltner Kirkpatrick Scholarship

This scholarship will be awarded each year that funds are sufficient to a student who is pursuing a course of study that has ties to the food service or hospitality industry, have a minimum cumulative grade point average of 3.0 or higher and have a minimum ACT score of 20 or higher.

Don C. Guess 4-H Scholarship

An endowed scholarship awarded each year that funds are sufficient. Preference will be given to entering freshman who is an active member of 4-H in either Pope or Yell County, has exhibited at the Pope or Yell County Fair, has a cumulative high school grade point average of 2.75 or higher and is planning to pursue an Agriculture or Agriculture-Business degree.

David Harlan McMillan Memorial Scholarship

This scholarship will be awarded each year that funds are sufficient with preference given to an Arkansas resident at the junior or senior level who is majoring in electrical or mechanical engineering, has a cumulative grade point average of 3.0 or higher and is enrolled in a 15 hour or more course load. The scholarship may be renewed for up to three consecutive semesters provided the recipient enrolls in and successfully completes a 15 hour course load each semester and maintains a cumulative 3.0 or higher grade point average.

James E. and Martha S. Newton Engineering Scholarship

Scholarships will be granted each fall that funds are sufficient in accordance with the following criteria: the recipient must be a Pope County resident, junior or senior level student, major in engineering, be a full-time student enrolled in a minimum of 15 semester credit hours, and have a cumulative 3.0 or higher grade point average. Financial need will be considered. The scholarship may be renewed for the spring semester provided the recipient continues to meet the scholarship criteria and funds are sufficient. Scholarship recipients from one year will be eligible to reapply for subsequent years.

James L. Witt Scholarship

This scholarship was established for the purpose of providing scholarships for students attending Arkansas Tech University majoring in Emergency Management. Scholarships and awards will be granted each year that funds are sufficient, with preference given to students who have a minimum of 24 college hours, maintains a minimum class load of 6 hours per semester, and a cumulative 3.0 grade point average.

Major Specific Scholarships

Alumni Association Scholarship

Alumni Scholarship Application
Word Format

Criteria for application:

1. Must be an entering freshman
2. Must enroll in a minimum of 12 credit hours during the semester of the award
3. Must have a minimum cumulative high school grade point average of 3.2 on a 4.0 scale
4. Must have a minimum composite ACT score of 21
5. Must have one parent who attended Arkansas Tech University
6. Must supply an official copy of the high school transcript provided directly from the applicant's high school to the scholarship committee.
7. Attach a one to three page essay that includes why you selected Arkansas Tech University as your college of choice, information about siblings and/or parents who are currently enrolled in college, financial hardships your family has encountered, and any personal information that might help the selection committee with its decision.
8. Two letters of recommendation are required
9. Complete the Alumni Scholarship Application. For printable application, click here.

Send completed applications and transcripts to:

Arkansas Tech University Alumni House
ATTN: Alumni Scholarship Committee
1313 N. Arkansas Ave.
Russellville, AR 72801

* Applications must be postmarked by March 15.

Questions about the Arkansas Tech University Alumni Scholarship should be directed to the Alumni Office, (479) 968-0242 or alumni@atu.edu

Athletic Scholarships

Inquire or submit application packet to:

Athletic Director
Hull Building
1306 N El Paso Ave
Russellville, AR 72801-2222
(479) 968-0245

Col. Alton F. Balkman Athletic Scholarship

This partial-tuition scholarship will be awarded to a student from Arkansas who is either a current member of the Tech basketball or football team or a former member in the last semester or year of his or her undergraduate degree program. The student must demonstrate potential for service to country such as was exemplified by Colonel Alton F. Balkman. Applicants must have at least a "C" average and must submit a letter of application and two letters of recommendation from Athletic Department faculty. Financial need will be a consideration when making this award. This scholarship is renewable provided funds are available; the student receives the recommendation of the Athletic Department and continues to meet the scholarship criteria.

Deward and Anne Dopson Scholarship

A scholarship awarded from funds contributed by Coach Dopson's former players, managers, and friends. The scholarship goes to a former student-athlete who has no further athletic eligibility remaining but has a semester or year remaining to finish his or her undergraduate degree. Past service to Tech will be a strong factor for selection.

Hindsman Athletic Scholarship

This scholarship will be awarded each year that funds are sufficient to a member of the Tech Men's Basketball team. The recipient must be a full-time student with demonstrated financial need. This award is renewable for the spring semester as long as the recipient continues to meet the criteria and successfully completes a full-time course load in the fall semester.

Wilson Matthews Distinguished Scholar Athlete Fund

Established in recognition of Mr. Wilson Matthews, a distinguished graduate of Arkansas Tech University, this scholarship

will be awarded to students who participate in team sports. These scholarships are renewable annually based on the student-athlete's academic and athletic standing and with continued recommendation of the nominating coach and selection by the Matthews Scholarship Committee. Criteria for receiving this scholarship are: nomination by a coach; junior standing or above; GPA of 3.0; preferably from a rural area; and exemplary credentials in academics, athletics, and leadership skills in school or community. Selected students must submit a resume and three letters of reference representing the areas of academics, athletics and leadership. Consideration will be given for additional financial assistance being received and to those students who meet the criteria with an emphasis on football.

Tate C. "Piney" Page Memorial Athletic Scholarship

An endowed scholarship to assist a graduate assistant who excelled in football and academics has been established in memory of Dr. Page through contributions by the Russellville Kiwanis Club.

Lambert Resimont Scholarship

This endowed athletic scholarship to be awarded annually to a graduate assistant who excelled in basketball and academics.

John E. Tucker Scholarship

An endowed athletic scholarship awarded to a graduate assistant who excelled in football and athletics.

Hindsman Athletes Scholarship

This endowed scholarship will be awarded annually to a member of the Tech Men's Basketball team. The recipient must be a full-time student, and have demonstrated financial need. This award is renewable for the spring semester as long as the recipient continues to meet the criteria, successfully completes a full-time course load in the fall semester, and funds are sufficient. Applications should be directed to the Athletic Director.

Junior Auxiliary of Russellville Scholarship

The following scholarships have been established through the Arkansas Tech University Foundation to benefit students attending Arkansas Tech University. Applications will be available for pick-up in the Office of Development, Administration Building room 209, the middle of February. A separate application must be completed for each scholarship for which you would like to be considered. Only the Junior Auxiliary of Russellville Scholarship Application will be considered. The application must be submitted to the address on the application.

Junior Auxiliary of Russellville Book Scholarship

An award to defray the cost of books will be made to a Russellville high school graduate each year that funds are sufficient. The student must be currently enrolled at Arkansas Tech University.

Junior Auxiliary of Russellville Education Scholarship

An award will be made each year that funds are available to an Arkansas Tech student majoring in Education and have junior or senior status. Applicants must have a cumulative grade point average of 3.0 or higher and demonstrate financial need.

Junior Auxiliary of Russellville Judy Thacker

This scholarship is open to any major at any level in their undergraduate career that has a minimum cumulative grade point average of 2.75. Preference will be given to a non-traditional student. Awards will be made each year that funds are sufficient.

Junior Auxiliary of Russellville Marge Crabaugh

An award will be granted each year that funds are available to a student majoring in a field pertaining to "Child Welfare." Applicants must have a cumulative grade point average of 3.0 or higher, be a Russellville or Pope County resident with junior or senior status.

Junior Auxiliary of Russellville Nursing Award

This fund has been established to provide a scholarship each year that funds are available to an Arkansas Tech University Nursing student in their junior or senior year of study. Applicants must have a cumulative grade point average of 3.0 or higher.

Graduate College

Inquire or submit application packet to:

Dean, College of Graduate Studies
Tomlinson Hall, Room 113
1507 N Boulder Ave

Russellville, AR 72801-2222
(479) 968-0398

Jimmie Hartman Hoover Memorial Scholarship

This endowed scholarship was created for the purpose of assisting graduate students at Arkansas Tech University and will be awarded each year that funds are sufficient. The applicant must be a full-time graduate student who is enrolled in 6 semester credit hours in the Instructional Technology degree program and have a cumulative grade point average of 3.0 or higher. Preference will be given to students who have an interest in library science. In addition, financial need may be considered.

Neal and Melissa Jenkins Graduate History Scholarship

Through a gift by Dr. Ellen J. Jenkins, the above named scholarship in memory of Neal and Melissa Jenkins has been established to provide scholarships for students accepted to the Arkansas Tech University Graduate Program. The recipient must be a graduate student in History, be enrolled in a minimum of six credit hours in History, academic achievement and need will be a consideration in selecting the recipient. Submit two letters of recommendation and an applicant letter detailing need and career goals. Preference will be given to a first year graduate student. The scholarship will be awarded each year that funds are sufficient and may be renewed for the succeeding spring semester provided the recipient completed the six-hour course load in the fall semester with a 3.0 grade point average and enrolls in six credit hours of graduate History courses in the spring semester. In the event a qualified first-year student has not applied, a third-semester or higher applicant may be selected on a one-semester basis for the fall or spring. Recipients are not eligible to re-apply in subsequent semesters or years.

Rexann Oller International Students Scholarship

The Rexann Oller International Students Scholarship will be awarded each year to an international student who shows academic achievement in international affairs and/or strong background and interest in international relations. This scholarship is open to all Arkansas Tech International undergraduate and graduate students who have a minimum GPA of 3.0. Preference will be given to students with demonstrated financial need. Recipients of other tuition scholarships are not eligible to apply. Please contact the office of ATU International Student Services and the Dean of Graduate Studies or full application requirements.

John Rollow Memorial Fund

Established as a tribute to John Rollow to assist non-traditional students in English and Creative Writing with tuition expenses, this scholarship is open to any non-traditional undergraduate or graduate student with demonstrated financial need and a cumulative grade point average of 2.5 or higher.

College of Business - Multi-Department Scholarships

Inquire or submit application packet to:

Dean, College of Business
Rothwell, Room 433
106 West O Street
Russellville, AR 72801-2222
(479) 968-0490

G. M. and Ruby Cook Business Scholarship

An endowed scholarship will be awarded annually to a business major.

Dr. Robert R. Edwards Book Scholarship

Several book scholarships are awarded each year to full-time senior students pursuing any of the business and economics majors. The scholarships, presented in recognition of outstanding academic achievement, are funded by contributions from the Business and Economics Department faculty.

Billy Free Scholarship

An annual scholarship will be awarded as funds are sufficient to a student who has declared a major in one of the fields in the College of Business.

Betty Jo Gober Memorial Scholarship

Through the generosity of Keith Gober, this scholarship has been established to provide scholarships for students in the College of Business. A scholarship recipient will be selected each fall and each spring semester that funds are available based on the following criteria: be an Arkansas resident, preference will be given to students from the Redfield and Waldron school districts, enrolled in 15 credit hours or more, be a traditional student of freshman, sophomore, junior, or senior classification and pursuing a Bachelor of Science in Business Administration degree (major in accounting, economics and finance, or management and marketing). An entering freshman must have an ACT score of 21 or higher (or SAT score of 500 or higher) and a 3.5 or higher grade point average. Attach to the application at least one letter of recommendation from a non-sports related teacher/counselor who is not a relative. A sophomore or higher classification

must have a 3.25 or higher grade point, attach a letter of application that expresses need, goals and a letter of recommendation from a College of Business professor or work-related supervisor. Demonstrated financial need will be a consideration. Applicants who have full scholarship(s) paying tuition, fees, room and board will not be considered. This scholarship is for one semester only and recipients are not eligible to apply in subsequent semesters.

Leenita Sue Gober Memorial Scholarship

Through the generosity of Keith Gober, this scholarship has been established to provide scholarships for students in the College of Business. A scholarship recipient will be selected each fall and each spring semester that funds are available based on the following criteria: be an Arkansas resident, preference will be given to students from the Redfield, White Hall, and Waldron school districts, be enrolled in 15 credit hours or more, be a traditional or non-traditional student of freshman, sophomore, junior, or senior classification and pursuing a Bachelor of Science in Business Administration degree (major in accounting, economics and finance, or management and marketing). An entering freshman must have an ACT score of 21 or higher (or SAT score of 500 or higher) and a 3.5 or higher grade point average. Attach to the application at least one letter of recommendation from a non-sports related teacher/counselor who is not a relative. A sophomore or higher classification must have a 3.25 or higher grade point, attach a letter of application that expresses need, goals and a letter of recommendation from a College of Business professor or work-related supervisor. Demonstrated financial need will be a consideration. Applicants who have full scholarship(s) paying tuition, fees, room and board will not be considered. This scholarship is for one semester only and recipients are not eligible to apply in subsequent semesters.

International Business Experience Scholarship

This scholarship will be awarded each year that funds are sufficient to students who demonstrate a financial need and are committed to/or are enrolled in an International Business Experience course.

Simmons First Bank Annual Scholarship

Awarded each semester that funds are sufficient, this scholarship is designated for a student who is presently residing in Pope or a surrounding county, has demonstrated financial need, maintains a cumulative GPA of 3.0 or higher, is a junior or senior enrolled as a full-time student in a major directly related to banking: Finance, Market Management, Economics or Accounting and is not employed by a competing financial institution. The scholarship is not automatically renewable each semester. The student may reapply for subsequent semesters.

Department of Accounting and Economics

Inquire or submit application packet to:

Department Head
Corley Building, Room 204
1811 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0612

Accounting Scholarships

Several fee and book scholarships are awarded each year to accounting majors. The scholarships are provided by contributions made to the Accounting Club by alumni of the Accounting Department. The recipient selection is based on need and potential in the accounting profession.

Virginia Bachman Textbook Scholarship

This scholarship will be awarded each fall semester and is renewable for the succeeding spring semester as long as the recipient continues to meet the criteria and successfully completes the fall course load. Recipient selection will be a junior or senior Accounting major who is enrolled in a minimum of six semester credit hours and has a 2.0 or higher GPA. Financial need will be a consideration

Dale Corley Memorial Scholarship

Friends and former students have established an endowed scholarship fund to commemorate the many years of service the late Mr. Corley rendered as professor and chairman of the Department of Accounting. An annual award is made to a senior accounting major.

Burl Harris Memorial Scholarship

Mr. and Mrs. John G. Harris have established this scholarship in honor of Burl Harris, a long-time practicing Public Accountant and businessman in Russellville. During most of his life, he was actively involved in industrial development efforts for the Russellville area. Mr. Harris served on the Arkansas Tech University Foundation Board of Directors until his death in 1990. He was a dedicated supporter of the University as a whole and of the Department of Accounting in particular. This scholarship will be awarded each year that funds are available to a junior- or senior-level accounting major enrolled in a minimum of 6 or more credit hours.

Jackie Knight Memorial Scholarships

A scholarship awarded annually to an outstanding and deserving senior-to-be majoring in accounting. Grade point and financial need will be considered in making the selection. This scholarship was established by the family and friends of Jackie Knight, former Vice President for Administration and Finance at Arkansas Tech University.

Ross Pendergraft Scholarship

Four renewable partial-tuition scholarships are to be awarded to full-time undergraduate students who have demonstrated financial need and are majoring in computer science, accounting, or business/economics/finance-one from computer science, one from business and two from accounting. Each scholarship will be renewable with the original recipient provided he or she has a GPA of not less than 2.5 for the fall semester and a cumulative GPA of at least 3.0 at the end of each spring semester.

Valley Motors Accounting Scholarship

Scholarship awards will be made each year that funds are available to a junior or senior accounting major enrolled in a minimum of six semester credit hours. This scholarship is renewable for the spring semester as long as the recipient continues to make academic progress and maintains a minimum of half-time status.

Department of Management and Marketing

Inquire or submit application packet to:

Department Head
Corley Building, Room 202
1811 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0492

Ross Pendergraft Scholarship

Four renewable partial-tuition scholarships are to be awarded to full-time undergraduate students who have demonstrated financial need and are majoring in computer science, accounting, or business/economics/finance-one from computer science, one from business and two from accounting. Each scholarship will be renewable with the original recipient provided he or she has a GPA of not less than 2.5 for the fall semester and a cumulative GPA of at least 3.0 at the end of each spring semester.

Department of Behavioral Sciences

Inquire or submit application packet to:

Department Head
Witherspoon Hall, Room 347
407 W Q Street
Russellville, AR 72801-2222
(479) 968-0305

Bob Adkison / ARVAC Addictions Research Scholarship

To be eligible for this scholarship, applicant must be a full-time student enrolled in 12 credit hours per semester, major in Psychology, Sociology, or Rehabilitation Sciences, junior or senior level student with 75 earned semester credit hours, successful completion of Psy/Soc 2053, cumulative grade point average of 3.25 or higher, and submit a letter of application that expresses need for the scholarship and career goals. The scholarship may be renewed for the succeeding semester if the recipient continues to meet the criteria.

Odean Owens Criminal Justice Award

One award will be granted each fall semester that funds are available based on the following criteria: A student with a major or minor in criminal justice and submission of a 500 word essay on a topic to be determined by the department head.

Department of English

Inquire or submit application packet to:

Department Head
Witherspoon Hall, Room 142

407 W Q Street
Russellville, AR 72801-2222
(479) 968-0256

William C. (Bill) & Barbara Gund Scholarship

Students majoring in English with a junior or senior standing are eligible for this partial-tuition scholarship provided that they maintain a grade point average of at least 3.0 and follow all established criteria. Preference will be given to non-traditional students.

Francis Gwaltney Memorial Scholarship

An endowed scholarship awarded to an English or Creative Writing major with sophomore, junior, or senior standing in memory of Francis Gwaltney, former author and member of the English and Creative Writing faculty. The scholarship is awarded competitively based on original fiction submitted by applicants to the head of the English Department two weeks before the end of each spring semester.

Rexann Oller English / Creative Writing Scholarship

One Scholarship from each area will be awarded annually to a deserving student. Recipients must be, sophomore, junior or senior level student, be in good academic standing, and should submit the application by April 1 of each spring.

John Rollow Memorial Fund

Established as a tribute to John Rollow to assist non-traditional students in English and Creative Writing with tuition expenses, this scholarship is open to any non-traditional undergraduate or graduate student with demonstrated financial need and a cumulative grade point average of 2.5 or higher.

Department of Foreign Languages & International Studies

Inquire or submit application packet to:

Department Head
Dean Building, Room 116
402 W O Street
Russellville, AR 72801-2222
(479) 964-0807

Massie-Mobley Modern Foreign Language Scholarship

Scholarship will be awarded to an upperclassman majoring in foreign language.

Lillian Massie Reed Modern Foreign Language Award

A scholarship awarded annually to a student majoring in foreign language.

Department of Music

Inquire or submit application packet to:

Department Head
Witherspoon Hall, Room 106
407 W Q Street
Russellville, AR 72801-2222
(479) 968-0368

Bridenthal Choir Scholarship

This scholarship is named for Dorothy Bridenthal Bean and her twin sister, Deloris Bridenthal Prestridge, both of whom attended Arkansas Tech from 1940 until their graduation in 1942. While this award is designed for students whose studies concentrate on choir in their music education, a student who is majoring in choir or choral music is preferred. Each applicant must audition for the scholarship. The recipient must be in good academic standing and shall be chosen by a committee composed of three members of the Arkansas Tech University Music Department. This scholarship will be awarded each semester that funds are sufficient.

Bridenthal Piano Scholarship

This scholarship is named for Dorothy Bridenthal Bean and her twin sister, Deloris Bridenthal Prestridge, both of whom attended Arkansas Tech from 1940 until their graduation in 1942. While this award is designed for students whose studies concentrate on piano in their music education, a student who is majoring in piano is preferred. Each applicant must audition for the scholarship. The recipient must be in good academic standing. This scholarship will be awarded each semester that funds are sufficient.

Connelly Music Fund

This scholarship was established in honor of Ed Connelly a long-time professor of music at Arkansas Tech University.

Nona Dirksmeyer Memorial Scholarship

Awards will be granted each fall, that funds are sufficient, to a full-time student who majors in Music, is in good academic standing, and is enrolled in a minimum of 15 semester credit hours. The scholarship may be renewed for the spring semester provided the recipient continues to meet the scholarship criteria and funds are sufficient. Scholarship recipients from one year will be eligible to reapply for subsequent years.

Celia Drew Hollinger Memorial Scholarship

Through the generosity of her family, this scholarship was established in memory of Celia Drew Hollinger. The scholarship will be awarded each year that funds are available to a full-time student pursuing a degree within the Department of Music. Applicants must demonstrate financial need and preference will be given to a student who plays the flute. The scholarship is renewable for the spring semester as long as the student continues to meet the above criteria.

Rexann Oller Music Scholarship

An endowed scholarship awarded annually to a deserving student in music. The recipient must be in good academic standing.

William C. and Myonia Pinson Instrumental Music

A scholarship will be provided each year that funds are available for an instrumental music major.

Russellville Symphony Guild Scholarship

Through the generosity of the Russellville Symphony Guild and in memory of Christina Stinnett, the above named scholarship fund has been established through the Arkansas Tech University Foundation for the purpose of providing scholarships for students attending Arkansas Tech University. A scholarship award will be made each fall that funds are available based on the following criteria: Entering freshman with a declared major in music, enroll in and successfully complete 12 credit hours per semester, a high school cumulative grade point average 3.0 or higher and a 20 or higher ACT composite score, a letter of recommendation from high school guidance counselor, and a letter of application describing your goals and plans. This scholarship is renewable for the spring semester as long as the recipient continues to make academic progress and maintains full-time status.

Mary McDonald Shinn Scholarship

An annual partial-tuition scholarship awarded to a vocal music major.

Carol Stewart Stark Scholarship

The family of Carol Stewart Stark has established this award in her memory and honor. Awards will be made each year funds are sufficient. Preference will be given to an undergraduate student majoring in music who demonstrates financial need. A married or single parent student will be given first priority. If no one meets this qualification in any given year, then an undergraduate music student demonstrating need will be considered.

Mary D. Turner Music Scholarship

An endowed scholarship will be awarded annually to a music major in honor of Mary D. Turner.

Gene Witherspoon Memorial Scholarship

A scholarship awarded each year that funds are sufficient to an instrumental music major by the Arkansas Tech Band Alumni in memory of Gene Witherspoon, director of bands at Arkansas Tech from 1950 to 1970.

Hallie Belle Witherspoon Memorial Scholarship

A scholarship is awarded each year that funds are sufficient to an instrumental music major by the Arkansas Tech Band Alumni in memory of Hallie Belle Witherspoon.

Department of History and Political Science

Inquire or submit application packet to:

Department Head
Witherspoon Hall, Room 255
407 W Q Street
Russellville, AR 72801-2222
(479) 968-0265

Fay Bullock Scholarship Fund

A scholarship awarded each semester to a student who is majoring, or one who intends to major, in the Department of Social Sciences and Philosophy. Academic achievement, financial need, and relevant extracurricular activities will be considered in making the award.

Lawrence M. Evans Memorial Political Science Fund

A memorial scholarship established by Dr. Larry Evans, his family and his friends for a sophomore, junior or senior majoring in History and Political Science. Preference will be given to those emphasizing Political Science. Academic achievement and need will be considered in making the award.

Neal and Melissa Jenkins Graduate History Scholarship

Through a gift by Dr. Ellen J. Jenkins, the above named scholarship in memory of Neal and Melissa Jenkins has been established to provide scholarships for students accepted to the Arkansas Tech University Graduate Program. The recipient must be a graduate student in History, be enrolled in a minimum of six credit hours in History, academic achievement and need will be a consideration in selecting the recipient. Submit two letters of recommendation and an applicant letter detailing need and career goals. Preference will be given to a first year graduate student. The scholarship will be awarded each year that funds are sufficient and may be renewed for the succeeding spring semester provided the recipient completed the six-hour course load in the fall semester with a 3.0 grade point average and enrolls in six credit hours of graduate History courses in the spring semester. In the event a qualified first-year student has not applied, a third-semester or higher applicant may be selected on a one-semester basis for the fall or spring. Recipients are not eligible to re-apply in subsequent semesters or years.

David Krueger Scholarship

This scholarship was established in honor of David Krueger's dedicated service to Tech students and will be awarded each semester that funds are available. The recipient of the David Krueger Scholarship will be selected by the History and Political Science Department Scholarship Committee. Applicants should be majoring in Secondary Level Social Studies Education and student teaching in the semester of the award. Academic achievement and financial need will be a consideration in selecting the recipient. Applications should include two letters of recommendation and an applicant letter stating needs and goals. Recipients are not eligible to re-apply in subsequent semesters or years.

Department of Speech, Theatre & Journalism

Inquire or submit application packet to:

Department Head
Trailer 1, Room A
1209 N Fargo Ave
Russellville, AR 72801-2222
(479) 964-0890

Dana Coffman Journalism Scholarship

This partial-tuition scholarship has been established in memory of Dana Coffman, a former Journalism student at Arkansas Tech University. Preference will be given to a female student majoring in the field of Journalism. Academic achievement and financial need will be reviewed before making the award.

Alfred & Marge Crabaugh Scholarship Program

This scholarship was established through the benevolence of Alfred J. & Marge W. Crabaugh, both of whom were prominent figures in the history of Arkansas Tech University and the River Valley community. This renewable scholarship will be awarded to outstanding full-time student(s) who have an ACT score of 21 or above, demonstrate leadership skills, and excel in Speech, Journalism or Communication. To be considered for this award, in addition to the above stated criteria, entering freshmen must submit two letters of recommendation from teachers, a scholarship application, and high school transcripts. The scholarship can be renewed with the original recipient provided he/she continues to meet the criteria, maintains a 3.0 grade point average, and has written renewal recommendations from two Arkansas Tech University faculty members in their field of study. Renewal recommendations must be made to the Journalism Department. Scholarship recipients will receive an award for tuition, fees, and books and will be known as "Crabaugh Scholars." Financial need will be considered when making these awards.

Gerald Edgar Scholarship

A performance scholarship paying a semester's tuition is awarded each spring in honor of Gerald Edgar who was News Bureau Director, advisor of student publications, and journalism professor for twenty-nine years at Arkansas Tech University. It is to be awarded to a student who shows ability in and dedication to publications work. Financial need will be considered. The student will be required to work ten hours per week on student publications.

Clifford & Mary Anne Franks Scholarship

To be considered for this award, the student must be involved in the Arkansas Tech Theater Department and be in good academic standing.

Kathleen Tucker Hollabaugh Journalism

This scholarship is funded by the Pope County Historical Association in honor of Kathleen Tucker Hollabaugh, the first woman editor of the Arka-Tech. The annual award will be made to a sophomore, junior or senior journalism major each

year funds are sufficient and will be based on commitment to journalism and work in the field. A letter about commitment to journalism and samples of the applicant's work should accompany the scholarship application.

College of Natural and Health Sciences - Multi-Department Scholarships

Inquire or submit application packet to:

Dean, College of Natural and Health Sciences
McEver Hall, Room 45
1701 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0498

Reuben Dee Caudle Scholarship

A partial-tuition scholarship will be provided for a student majoring in one of the physical science fields. The recipient must demonstrate a financial need, must meet and maintain satisfactory scholastic requirements. Preference will be given to Arkansas residents and those who have prior military service. This scholarship is to be re-awarded to the initial freshman recipient each of his/her subsequent three years while at Tech provided he/she continues to major in Physical Sciences and maintains good academic standing. Awards will be made each fall semester that funds are sufficient.

Truman McEver Memorial Scholarship

Recipient must be an entering freshman who is majoring in the Department of Physical and Life Sciences. Academic ability and financial need are considered.

Professor Tom Palko Scholarship

A partial tuition scholarship established in honor of Mr. Palko, Emeritus Professor of Allied Health Science, will be awarded each year that funds are available. Selection will be based on an ACT composite score of 21 or above, sophomore class standing, a minimum college-level grade point average of 2.75, a declared major in the College of Physical and Life Sciences with preference being given to Medical Assisting or Medical Technology majors, and demonstrated financial need.

Department of Biological Sciences

Submit application packet to:

Department Head
McEver Hall, Room 34D
1701 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0294

Biology

Inquire:

Biology Director
McEver Hall, Room 209
1701 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0362

Linda Douthit Memorial Scholarship

Awards will be granted on an annual basis as funds are available. Recipients will be chosen based on the following criteria: freshmen who have declared a major in Biology and maintained a minimum high school cumulative grade point average of 2.75; sophomores, juniors or seniors who have declared a major in Biology and have a minimum cumulative grade point average of 2.75.

E. E. Hudson Scholarship

The applicant must be majoring in biology and enrolled in 12 semester credit hours if a first semester freshman or 15 semester credit hours if a second semester freshman or higher classification. An ACT composite score of 25 or above for freshmen, or an Arkansas Tech cumulative grade point average of 3.0 or higher for sophomores, juniors, or seniors. The applicant must have leadership potential demonstrated by extracurricular academic activities. Financial need will be considered. Preference will be given to graduates of Arkansas high schools. This scholarship may be renewed for one

additional semester after the initial semester award if the student makes satisfactory academic progress by successfully completing 12 semester hours (first semester freshman) or 15 semester hours (second semester freshman or higher classification) with a grade point average of 3.0 or higher.

Dwight M. Moore Scholarship

The scholarship was established by the late Dr. Moore, one-time head of the department, and by his wife Clemmie, a graduate of the department. Each spring, a book scholarship will be awarded to a student interested in and having potential in the field of botany.

B. G. and Anita Owen Textbook Scholarship

A book scholarship awarded to a student with junior standing was initiated by B. G. Owen, Associate Professor of Biology. Following the expressed wishes of their daughter, friends may contribute funds to perpetuate this scholarship awarded according to criteria determined by the late Professor Owen. The applicant must have junior or senior status, a minimum 2.5 cumulative grade point average, demonstrate financial need, preference will be given to students planning to teach biology at the secondary level.

Doyle & Evelyn Sparks Scholarship

Scholarships will be awarded each year funds are sufficient to a student who has reached the junior or senior level in their undergraduate education, maintains a cumulative grade point average of 3.5 or higher, exhibits and has a record of campus involvement and/or community service and is from Pope, Yell, Conway or Johnson counties. Each recipient may be chosen to receive this award only once.

Fisheries and Wildlife

Inquire:

Fisheries and Wildlife Director
McEver Hall, Room 31
1701 N Boulder Ave
Russellville, AR 72801-2222
(479) 964-0852

CADDIS Fly Fishing Club Annual Scholarship

This annual scholarship will be awarded each year that funds are sufficient. Preference will be given to students who have achieved junior or senior status, have declared a major in Fisheries and Wildlife, and have maintained a minimum cumulative grade point average of 2.75 or higher. In addition financial need and/or research accomplishments may be considered.

Rip Collins Memorial Scholarship

Established by the Friends of the Little Red River to honor Mr. Rip Collins, the scholarship shall be used to make awards to full-time student(s) attending Arkansas Tech University. A recipient will be chosen annually and receive partial tuition for both the fall and spring semester of that academic year. Selection process will begin in the spring after recommendations are made by fisheries professors at Arkansas Tech. Applications and letters from the applicants expressing their thoughts, beliefs, and future plans concerning fisheries management are required. Preference will be given to a sophomore or junior fisheries student in good standing who is interested in either cold water fisheries biology, management, or stream/riverine fisheries biology or management.

The Lake Dardanelle Big Bass Scholarship

Through the generosity and support of local and area fishermen, the organizers of "The Lake Dardanelle Big Bass Classic," Wilkins Sporting Goods and the Russellville Advertising and Promotion, the Lake Dardanelle Big Bass Scholarship has been established for the purpose of providing scholarships for Fisheries and Wildlife students attending Arkansas Tech University. Applications should be submitted directly to the Director of the Fisheries and Wildlife program in early September. Scholarships will be granted each fall in accordance to the following criteria: a declared major in Fisheries and Wildlife, a junior or senior level student in good standing, attach a resume, copy of transcripts, and a letter of application that indicates the scholarship for which application is being made and that addresses financial need and career goals. Preference will be given to Arkansas residents and to students whose career goals focus on fisheries management. The scholarship is for the fall semester only and is not renewable.

Quail Unlimited / Jim Ed McGee Scholarship

Awards will be granted each fall that funds are sufficient to an Arkansas resident with a junior or senior class standing who has declared a major in Fisheries and Wildlife. The student must have a cumulative grade point average of 2.0 or higher, be enrolled in a minimum course load of 12 student semester credit hours, demonstrate financial need and submit a letter of application. The scholarship is renewable for the succeeding spring semester provided the student maintains a minimum 2.0 grade point on a minimum course load of 12 student semester credit hours. Students must re-apply each year.

Department of Mathematics

Inquire or submit application packet to:

Department Head
Corley Building, Room 232
1811 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0659

Maude Moore Geurian Memorial Scholarship

This scholarship has been established to honor Maude Moore Geurian for her many years of dedication to Arkansas Tech University and devotion to her students. Applicants for this scholarship must have declared Math as a major course of study, maintain a minimum cumulative grade point average of 3.0, demonstrate financial need and have earned a minimum of 30 credit hours.

Department of Nursing

Inquire or submit application packet to:

Department Head
Dean Hall, Suite 224
402 W O St
Russellville, AR 72801-2222
(479) 968-0383

Nell Teeter Balkman Nursing Scholarship

This partial-tuition scholarship will be awarded to a junior or senior nursing student from Arkansas who demonstrates potential for nursing leadership such as was exemplified by Nell Teeter Balkman. Applicants must have at least a "C" average and must submit a letter of application and two letters of recommendation from Arkansas Tech University Nursing Department faculty. This scholarship is renewable provided funds are available; the student receives the recommendation of the Nursing Department, and continues to meet the scholarship criteria. Financial need will be a consideration in making this award.

Junior Auxiliary of Russellville Nursing Award

This fund has been established to provide a scholarship each year that funds are available to an Arkansas Tech University Nursing student in their junior or senior year of study. Applicants must have a cumulative grade point average of 3.0 or higher. Applications are available in the Development Office, Administration Building room 209 in early February.

Hazel Thrasher Memorial Scholarship Fund

Scholarships awarded to nursing majors based on need and the potential to meet the requirements of a professional nurse.

Dr. Charles and Joyce Wilkins Nursing Scholarship

This senior honors scholarship will be a one-semester partial tuition scholarship awarded to a full-time or part-time nursing student who has the highest grade point average prior to entering the first semester of the senior year. Since there are two nursing classes, a recipient will be selected from each class. Financial need is not a requirement.

Yell County Medical Society Scholarship

A scholarship awarded each spring semester by the Yell County Medical Society to a Tech student from Yell County majoring in nursing.

Department of Physical Sciences

Inquire or submit application packet to:

Department Head
McEver Hall, Room 38H
1701 N Boulder Ave
Russellville, AR 72801-2222
(479) 964-0548

C. L. Chiang and C.C. Yang Chemistry Scholarship

An endowed scholarship established by Mr. C. L. Chiang of Singapore in honor of Dr. C.C. Yang, Professor Emeritus. The scholarship is awarded to an incoming freshman majoring in chemistry. The requirements for this award are a high school GPA of 3.0 or greater, and a composite ACT score of 24 or greater. This scholarship is renewable by request if the recipient makes satisfactory progress toward an ACS-accredited degree in chemistry.

Virgil Alvin Turner Book Scholarship

A book scholarship established by Mr. and Mrs. Raymond B. Stroud which is awarded for the fall semester of the sophomore year to a major in chemistry. Recipients should be dedicated to obtaining a degree in chemistry and demonstrate this through scholastic achievements.

College of Applied Science - Multi-Department Scholarships

Inquire or submit application packet to:

Dean, College of Applied Science
Corley Building, Room 123
1811 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0353

Engineering

Col. Carl Baswell Engineering Scholarship

To be considered for this scholarship, applicants must have successfully completed the pre-professional curriculum as outlined in the Arkansas Tech University catalog, reached the junior or senior level, declared a major in Engineering, earned a cumulative grade point average of 3.0 or higher, demonstrated financial need and be a resident of Arkansas.

Sybil W. Bates Engineering Scholarship

To be eligible for this scholarship, a student must be an incoming freshman majoring in Engineering, have an ACT composite score of 26 or higher and a 3.5 or higher grade point average in core classes from high school. This scholarship is for the freshman year only and is not renewable for subsequent years.

Majors Family Engineering Scholarship

This partial tuition scholarship will be made to an engineering major at the junior or senior level. Recipients can be either continuing or transfer students. To be eligible for this scholarship, a student must have successfully completed the pre-professional curriculum as outlined in the Arkansas Tech University catalog, must have an overall GPA of 2.75 or greater, must be declared as a major within the engineering department and enroll in the appropriate classes with an engineering advisor for the semester of the award. Awards may be renewed for one additional semester if the student maintains a 2.75 overall grade point average, remains a major in the engineering program and is making satisfactory progress toward an engineering degree.

Ann and Gill Richards Engineering Scholarship

This scholarship is awarded annually to an excellent engineering student.

Department of Agriculture

Inquire or submit application packet to:

Department Head
Dean Hall, Suite 112
402 W O Street
Russellville, AR 72801-2222
(479) 968-0251

Little Rock Grain Exchange Scholarship

To be considered for this scholarship, students must have declared a major in Agriculture or Agriculture Business. Freshmen students must rank in the upper half of their Arkansas high school graduation class and possess ACT or SAT test scores that exceed the state average. Additionally, applicants must have two or more positive recommendations from their high school principal, counselor or teachers. Sophomore students must have two or more positive recommendations from their university or college teacher and have a 3.0 cumulative grade point average. Financial need will be considered although not determinative. Scholarships are renewable each semester up to a total of eight semesters assuming the

student takes a full academic load of 15 hours per semester and maintains a minimum cumulative grade point average of 3.0 or higher.

Xzin McNeal Scholarship

Scholarships are awarded annually to students in the Department of Agriculture. Recipients are selected based on demonstrated financial need and academic merit. Student must maintain a 2.5 grade point average.

John & Joie Nutt Scholarship

This two-semester scholarship has been established to benefit students who are enrolled in either Agriculture or Agriculture Business at Arkansas Tech University. To be considered for this scholarship, students must be a sophomore, junior or senior and have a minimum cumulative grade point average of 2.75. To remain eligible to receive this award for the second semester, students need to complete 12 credit hours and have a minimum cumulative grade point average of 2.75. Scholarship recipients from one year will be eligible to re-apply for subsequent years; however, all applications will be considered equally for each award year.

James and Geneva Pledger Agriculture Scholarship

Through the generosity of Jim and Geneva Pledger, the above named scholarship has been established to provide scholarships for Arkansas Tech students. One \$500 scholarship will be granted each year funds are available. The recipient must be a junior or senior in good standing, have declared a major within the Department of Agriculture, and have demonstrated financial need. Renewable for spring only and recipient may re-apply for subsequent years. Application should be directed to the head of the Agriculture Department.

Melvorn Watson Scholarship

Awards will be made each year that funds are available. This scholarship will be awarded to a student majoring in Agriculture or Agriculture Business with preference given to current or transfer students, especially those who have achieved junior status. Financial need will be a consideration and students who receive the scholarship may re-apply for the scholarship for subsequent years.

Department of Computer and Information Science

Inquire or submit application packet to:

Department Head
Corley Building, Room 263
1811 N Boulder Ave
Russellville, AR 72801-2222
(479) 968-0664

Arkansas Academy of Computing Scholarship

The Arkansas Academy of Computing is an organization that promotes and furthers the development of computing education in the state of Arkansas. This scholarship is provided each year that funds are available to a freshman or sophomore student who is pursuing a major within the Department of Computer and Information Science.

Laura Ferguson Computer Science Scholarship

This endowed scholarship was established by Laura Ferguson, Arkansas Tech University class of 1934, who worked in the computer industry for the majority of her career. This scholarship is for an upper level student enrolled in a Bachelor of Science program in Computer and Information Science with preference given to residents of Pope County.

Ross Pendergraft Scholarship

Four renewable partial-tuition scholarships are to be awarded to full-time undergraduate students who have demonstrated financial need and are majoring in computer science, accounting and economics, management and marketing-one from computer science, one from management and marketing and two from accounting and economics. Each scholarship will be renewable with the original recipient provided he or she has a GPA of not less than 2.5 for the fall semester and a cumulative GPA of at least 3.0 at the end of each spring semester.

Wal-Mart Information Systems Scholarship

Scholarship awards will be made each fall that funds are sufficient, based on the following criteria: junior or senior classification, majoring in computer science, information systems, or information technology, a full-time student enrolled in 12 or more credit hours per semester, have a cumulative grade point average of 3.0 or higher, and be an Arkansas resident. This scholarship is renewable for the spring semester as long as the recipient continues to meet the criteria. The scholarship is for one year only, but a junior classification who is a recipient may re-apply for the succeeding year.

Department of Parks, Recreation, & Hospitality Administration

Inquire or submit application packet to:

Department Head
Williamson Hall, Room 101
1205 N El Paso Ave
Russellville, AR 72801-2222
(470) 968-0378

Hospitality Administration

Bird's Hospitality Inn, Inc. / Huie Bird Memorial Scholarship

This scholarship was established in memory of Huie Bird and will be awarded each year funds are sufficient. Applicants must be a citizen or permanent resident of the United States and a resident of Conway, Johnson, Logan, Perry, Pope or Yell County. The applicant must have completed at least 30 hours toward a degree within the Parks, Recreation and Hospitality Administration department. Additionally, the applicants must be enrolling in at least 2 semesters for the academic year of the award (not graduating prior to May of the award year). A minimum of 2 letters of recommendation from professionals in the hospitality industry and/or hospitality instructors should be included with the application, as well as an official college transcript.

Chartwells Hospitality Scholarship

To be considered for this scholarship, applicants must be a full-time, Hospitality major. Students must have successfully completed 30 credit hours with a cumulative grade point average of 2.75 or higher and have an interest in food service. A letter of recommendation from a faculty member or industry representative, a one page biography or resume, an unofficial transcript, and a letter detailing their candidacy and qualifications as they relate to this scholarship should be submitted by students wishing to be considered for this scholarship.

Renee Walters/Julia Williams Memorial Scholarship

Recipients will be selected each year that funds are sufficient. Preference will be given to students who have declared a major in Hospitality Administration, are currently enrolled in HA 4116, have successfully completed HA 4001, and have maintained a cumulative grade point average of 2.5 or higher. Students wishing to be considered must submit a letter of recommendation from a professional contact currently working in the field of Hospitality Administration and a letter of application of at least one page in length outlining their candidacy and qualifications as they relate to this scholarship.

Recreation and Parks

Belinda Byrns Scholarship

This annual scholarship was established in memory of Belinda Byrns and will be awarded each year funds are sufficient. Applicants must be a full-time Recreation and Parks major, have a cumulative grade point average of 2.75 or higher, submit a resume and an applicant letter explaining why he or she deserves the scholarship, educational and professional goals, and summarize professional experience. One letter of recommendation from a professional in the Recreation and Parks profession who is not a full-time or adjunct ATU Recreation and Parks faculty member is also required. Recipient must reapply each year for the scholarship.

Regulations and Procedures

All students must give prompt attention to communications from faculty and staff members of the University. Most communications will be sent through the United States mail or to your official Tech e-mail address.

Academic Dishonesty

In addition to taking reasonable steps to discourage cheating, the faculty must accept a responsibility to clarify and interpret for the students matters of dishonesty, such as cheating or plagiarism.

If an occurrence of academic dishonesty is detected, the instructor should refer to the "Student Academic Conduct Policies" outlined in both the Student Handbook and the Faculty Handbook for the appropriate procedures. The policies also outline procedures to appeal a charge of academic dishonesty if the student feels the charge was inappropriate.

Academic Misconduct

The faculty must also accept a responsibility to clarify and interpret for the students matters of academic misconduct which concerns the student's classroom behavior. For example, students may disrupt the learning environment in a classroom through inappropriate behavior, such as, talking to students, unnecessary interruptions, attempting to monopolize the professor's attention, or being chronically late to class. Misconduct also covers verbal or nonverbal harassment and/or threats in relation to classes. Student behavior should not infringe on the rights of other students or faculty during a class.

If an occurrence of academic misconduct is detected, the instructor should refer to "Student Academic Conduct Policies" outlined in both the Student Handbook and the Faculty Handbook for the appropriate procedures. The policies also outline procedures to appeal a charge of academic misconduct if the student feels the charge was inappropriate.

Involvement in such activities as conspiracy or breaking and entering is to be reported to the Vice President for Student Services for appropriate action through regular University disciplinary channels.

Academic Probation

Students will be placed on academic probation whenever their semester grade point falls below 2.00 unless the cumulative grade point is 2.00 or higher. These criteria also apply to entering transfer students. Removal of probation will be accomplished by raising the cumulative grade point to 2.00 or higher.

Freshmen students who in a probationary semester fail to remove themselves will continue on probation for the following semester. Sophomore, junior, and senior students who in a probationary semester fail to remove themselves but achieve a 1.75 semester grade point will continue on probation for the following semester unless the academic suspension policy applies.

Academic Suspension

Suspension will be automatic for sophomore, junior and senior students who in a probationary semester fail to achieve a 1.75 semester grade point; or who fail to remove themselves from probation within three successive full semesters. Students may combine summer term grades at Arkansas Tech with those of the spring semester immediately preceding in order to establish eligibility for retention in college.

Suspension means that the student will not be allowed to attend Arkansas Tech the succeeding regular semester; after one regular semester the student may be eligible for readmission on academic probation. Students receiving a second academic suspension will be eligible to seek readmission one year from the date of suspension. Students who believe there are extenuating circumstances which would justify earlier readmission must contact the Registrar's Office for assistance in arranging an appeal hearing with the appropriate college dean. Students who meet the semester/year stipulation must file a request for readmission with the Registrar's Office. Readmission does not reestablish financial aid eligibility.

Students on academic suspension who wish to transfer to Arkansas Tech must meet the eligibility standards for readmission to the last college/university attended before being considered for admission to Tech.

Adding/Dropping Courses

The deadline for adding courses or changing courses or sections is given in the University calendar; thereafter, changing to audit or dropping a course are the only changes permissible. Courses officially dropped after the 11th class day and through the thirteenth week of a fall or spring semester will be recorded as "W." Students may add, drop, or change sections of courses only by following the official procedure which requires that they obtain and return the necessary forms

to the Registrar's Office after obtaining the formal approval of their academic advisor. Failure to complete this procedure can result in a grade of "F" being entered on the student's record. A fee of \$10 will be charged except for changes made for the convenience of the University. Please note: A student accumulating an excessive number of absences in a course may be dropped from the course by the instructor with a grade of "FE."

Auditing Courses

Auditing of courses requires official admission to the University, approval by the instructor involved, and payment of the regular fee for the course. Audit will be on a "space available" basis. Students auditing courses are subjected to the same regulations as other students with regard to registration and attendance, but they do not take examinations nor receive credit for the course. A student accumulating an excessive number of unjustifiable absences in an audited course may be administratively withdrawn at the request of the instructor. Students may change from taking a course for credit to audit during the first thirteen weeks of the semester. Students enrolled for audit who do not wish to complete the course(s) must complete official drop/withdrawal procedures stated in this section of the catalog.

Class Absence

Regular class attendance is considered essential if students are to receive maximum benefit from any course. Control of class attendance is vested in the teacher, who has the responsibility of defining early in each course his/her standards and procedures. A student accumulating an excessive number of unjustifiable absences in a course may be dropped from the course by the instructor with a grade of "FE." A student who is dropped from three courses in a semester for unsatisfactory class attendance may be immediately suspended.

Class Load Policy

A student can expect to spend 2-3 hours outside the class (for studying, homework, preparation, etc.) for each hour in the class. This means that a student can expect to spend 24-36 hours in studying for a 12 semester credit hour load. It is therefore recommended that a full-time student enroll in no more than 18 hours per semester (7 hours per summer session). Students working full-time are encouraged to take no more than 12 hours per semester. Students readmitted after academic suspension cannot take more than 12 hours per semester (3 hours per summer session). Students on academic probation must obtain approval from their advisor to enroll in more than 15 hours per semester.

These totals include all courses for which students may enroll. Permission to take course loads above these maximums must be obtained in advance of registration from the dean of the college of the student's major.

Course Overload

Students who enroll above the maximum loads without securing permission from the dean will be dropped from their classes. To be considered for a course overload, the student must submit a petition to the dean and should meet the following criteria:

1. Have a 3.25 minimum grade point average in the preceding two summer sessions (minimum: 12 semester hours) or in the preceding fall or spring semester (minimum: 12 semester hours) at the university, or
2. Be in good academic standing in the college if in the last semester before graduation.

The maximum overload permitted in any college by an approved petition is a load totaling 24 hours for a fall or spring semester, nine hours in summer session I or II, and 15 hours for any combination of summer enrollments. Overloads over 21 hours will be subject to review by the Office of Academic Affairs.

Class Standing

Students with fewer than 30 semester hours are classified as freshmen, students with 30 through 59 semester hours as sophomores, students with 60 through 89 hours as juniors, and students with at least 90 hours as seniors.

Clemency

In accordance with Act 1000 of 1991, an undergraduate student who has previously attended Arkansas Tech University may apply to have the grades and credits earned for one or more consecutive terms or semesters removed from his/her grade point average provided the following criteria are met.

After re-entering Tech following a separation of at least three years, a student may request academic clemency at the Office of the Registrar. The student must specify the term or consecutive terms for which academic clemency is desired. The period of separation may be waived in the case of impending graduation. Academic clemency may be granted only one time and is irreversible. If the request is approved, Academic Clemency will cover all credits earned during the term or terms for which academic clemency is requested. The student's complete record will remain on the transcript with the added notation of "academic clemency granted" and the effective date.

Academic clemency does not restore eligibility for student financial aid, scholarships or athletic eligibility.

Conduct

Arkansas Tech University expects its students to obey all the policies of the university and all federal, state and local laws. Each student, as a member of the Tech community, assumes an obligation to obey all rules and regulations made by properly constituted authorities. Failure to comply can result in disciplinary actions which may include disciplinary probation, suspension for a stated period of time, or expulsion which is permanent forced withdrawal. Conduct for which a student is subject to disciplinary action is published in the Student Handbook available in the Office of Student Services and in other official publications of Tech.

Dean's List

Undergraduate students whose grade point at the end of each semester is 3.50 or better, based on a minimum of 12 semester hours of work, will be placed on the Dean's List for outstanding scholarship. Recognition will be accorded these students through appropriate news media.

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords student's certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the Registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the students of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request that the student's education records that the student believes are inaccurate or misleading be amended.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosures without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, collection agent, or internship agreement); a person serving on the Board of Trustee; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Arkansas Tech University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Compliance Office
U.S. Department of Education
600 Independence Avenue, SW
Washington, D.C. 20202-4605

"Directory information" at Arkansas Tech University consists of the student's name, address, telephone listing, electronic mail address, dates of attendance¹, major field of study, enrollment status (e.g. undergraduate or graduate), participation in officially recognized activities and sports, weight and height of members of athletic teams, degrees, honors and awards received, and the most recent educational agency or institution attended.

This information may be made available upon request to members of the general public. If a student on the Russellville campus wishes for this information to be regarded as confidential, according to the provisions of the Family Educational Rights and Privacy Act of 1974, she/he should notify the Vice President for Students Services at (479) 968-0238.

If a student on the Ozark campus wishes for this information to be regarded as confidential, according to the provisions of the Family Educational Rights and Privacy Act of 1974, she/he should notify the Chief Student Officer at (479) 508-3310.

¹Dates of attendance means the period of time during which a student attends or attended an educational agency or institution. Examples of dates of attendance include an academic year, a spring semester, or a first quarter. The term does not include specific daily records of a student's attendance at an educational agency or institution.

Grading

Final grades are reported to the Registrar's Office at the end of the semester. Midterm grades are reported for freshman and sophomore students only. A final grade of "I" may be recorded for a student who has not completed all the requirements of a course only in situations where the student has an illness or other circumstances beyond the student's control, and has completed seventy-five percent of the course requirements provided work already completed is of passing quality. If a grade of "I" is assigned, the instructor will set a reasonable time limit within the following semester in which the work must be completed. Beginning the first summer term, 1990, and thereafter, a grade of "I" will not be computed in the grade point average for the semester recorded; however, the "I" will be automatically changed to a grade of "F" for grade and grade point purposes at the end of the next regular semester (fall or spring) unless course requirements are completed and the final grade is reported before the end of the semester. A grade of "I" recorded prior to the first summer term, 1990, will be computed as an "F" for grade point purposes.

No grade other than "I" may be changed after it is recorded except if an instructor finds that a grade has been erroneously recorded. The instructor may correct the grade by submitting a written request and explanation of the error to the Vice President for Academic Affairs.

Grade points are awarded on the basis of: A, 4 points; B, 3 points; C, 2 points; D, 1 point; F, 0 points.

Graduation

Please refer to the section entitled "[Graduation Requirements](#)" for information pertaining to degree audit, application for graduation, payment of graduation fees, and other graduation requirements.

Late Registration

For registration during the period stated in the University Calendar as late registration, a fee of \$25 is charged.

Repeated Courses

Students may repeat courses they have taken at Arkansas Tech University for the purpose of grade point adjustments (1) only by re-enrolling in the same courses at Arkansas Tech University and (2) subject to the following provisions. For repeated courses, only the grade from the best attempt of the repeated course is calculated into a student's cumulative grade point although all grades and all attempts are recorded on the student's academic record. Students may not repeat a course in which the highest grade possible has already been earned. Adjustments to cumulative grade points are not made for courses transferred from other colleges or universities.

Student Records

Student academic records are maintained in the Office of the Registrar. Unofficial copies of academic records are available for guidance purposes to students and their advisors. All student records are maintained in compliance with the standards and guidelines of The Family Educational Rights and Privacy Act of 1974, Federal Law 93-380.

Traffic Regulations

By authority of the Board of Trustees and in accordance with Legislative Act 328, 1967, Arkansas Tech University requires all members of the faculty, staff, student body and classified personnel to register motor vehicles which they own or operate on the Tech campus or on lands controlled by the University. All registrants shall abide by all traffic and parking regulations as outlined by a printed pamphlet available in the Doc Bryan Student Services Building or at the Department of Public Safety office.

Registration of vehicles shall be accomplished at the time of regular registration for the fall, spring or summer semesters at the Department of Public Safety located at 1511 North Boulder. All faculty, staff and students must present a current Tech ID card before a permit will be issued. All vehicles on Tech campus are required to register and display a current

parking permit. Parameters for the operation and parking of motor vehicles may be viewed on the campus map available at the Department of Public Safety. Vehicles are defined as any self-propelled vehicle having two or more wheels.

Permits are valid from August 15th one year through August 15th of the next year. After securing a permit at the Department of Public Safety, charges are assessed to the student's account at the Office of Student Accounts. Faculty and staff are required to prepay and bring their receipt along with their ID when picking up their permit. Permits must be displayed by hanging in the rear view mirror so the number can be read through the front windshield from the outside; they may not be taped on the vehicle or laid on the dash or seat. These permits can be moved from vehicle to vehicle. Permits are the responsibility of the purchaser and must be removed prior to sale or transfer of the vehicle, upon termination of employment or withdrawal from the university. Only one permit per individual can be purchased unless the prior permit was lost or stolen. The reported lost or stolen permit will be invalid. There is no refund for permit cost. The registration fee, penalties and fines are published in the ATU parking map.

Temporary permits are available at the Department of Public Safety for faculty, staff and students who have misplaced their permits. These permits are provided at no cost and are valid for a maximum of seven days.

Withdrawals

A student who wishes to withdraw from school during a semester is required to follow the official withdrawal procedure which requires submitting a written request to the Office of the Registrar. Students who withdraw without following this required procedure will have their grades recorded as "F." If a student withdraws officially, the procedure for recording grades is identical with that for dropping an individual course, as described in this section under the heading "Adding/Dropping Courses." If a student withdraws from school during the final two weeks of a semester, the Vice President for Academic Affairs may waive the requirement that grades of "F" be recorded if the circumstances forcing a withdrawal justify special consideration.

University Policy

While every effort will be made to conform to catalog announcements, the University reserves the right to adapt its program as may be necessary.

Curricula

The following abbreviations are used in describing curricula listed in this catalog.

College of Applied Sciences (AS)

AGAS	Agricultural Animal Science	COMS	Computer and Information Science
AGBU	Agricultural Business & Economics	CUL	Culinary Management
AGED	Agricultural Education	ELEG	Electrical Engineering
AGEG	Agricultural Engineering/ Mechanization	EAM	Emergency Management
AGME	Agricultural Mechanization	HA	Hospitality Administration
AGPM	Agricultural Pest Management	MCEG	Mechanical Engineering
AGPS	Agricultural Plant Science	RP	Recreation & Park Administration
AGSS	Agricultural Soil Science		

College of Arts and Humanities (AH)

AMST	American Studies	LAT	Latin
ANTH	Anthropology	MUSM	Museum
ART	Art	MUS	Music
CHIN	Chinese	PHIL	Philosophy
CJ	Criminal Justice	POLS	Political Science
ENGL	English	PSY	Psychology
FR	French	READ	Reading
GEOG	Geography	RS	Rehabilitation Science
GER	German	RUSS	Russian
GRK	Greek	SOC	Sociology
HIST	History	SPAN	Spanish
HUM	Humanities	SPH	Speech
ITAL	Italian	TESL	Teaching English as a Second Language
JOUR	Journalism	TH	Theatre
JPN	Japanese		

College of Business (BA)

ACCT	Accounting	FIN	Finance
BUAD	Business Administration	MGMT	Management
BDA	Business Data Analytics	MKT	Marketing
BLAW	Business Law	VOBE	Vocational Business Education
ECON	Economics		

College of Education (ED)

CSP	College Student Personnel	LBMD	Library Media
DE	Driver Education	MLED	Middle Level Education
ECED	Early Childhood Education	PE	Physical Education
EDFD	Educational Foundations	SEED	Secondary Education
EDMD	Educational Media	WS	Wellness Science
HLED	Health Education		

College of Natural and Health Sciences (NHS)

AHS	Allied Health Science	MATH	Mathematics
BIOL	Biology	MEDT	Medical Technology
CHEM	Chemistry	NUR	Nursing
FW	Fisheries & Wildlife Science	NURN	Nursing for Registered Nurses
GEOL	Geology	PHSC	Physical Science
HIM	Health Information Management	PHYS	Physics

College of Professional Studies and Community Outreach (PS)

ECE Early Childhood Education (Associate Degree only) PS Professional Studies

Inter-College Areas

HONR Honors Program

MS Military Science
TECH University Orientation

Graduation Requirements

Major fields of study leading to a bachelor degree are offered in accounting, agriculture business, art, art education, biology, business education, chemistry, computer science, creative writing, creative writing education, early childhood education, economics and finance, electrical engineering, emergency management, engineering physics, english, english education, fisheries and wildlife biology, foreign language, foreign language education, general studies, geology, health and physical education, health information management, history, hospitality administration, information systems, information technology, international studies, journalism, life and earth science education, management and marketing, mathematics, mathematics education, mechanical engineering, medical technology, middle level education, music, music education, nursing, physical science, physical and earth science education, political science, professional studies, psychology, recreation and park administration, rehabilitation science, social studies education, sociology, speech, and speech education.

Associate degrees are offered in criminal justice, culinary management, early childhood education, general studies, information technology, medical assistant and nuclear technology.

Students may graduate under the catalog in force when they first enroll in the University, or any subsequent catalog, subject to the approval of the appropriate department head and dean. Students should keep in mind that curricula change in order to maintain relevance, up-to-date knowledge, and, in some cases, accreditation standards. The University reserves the right to make effective immediately any change in graduation requirements for students whose studies have not advanced beyond the level at which the change becomes operative.

Degree Audit and Application for Graduation

Candidates for graduation must complete a degree audit and an application for graduation. Seniors completing graduation requirements at the end of the fall semester must submit to the Registrar's Office an application for graduation and complete a degree audit in consultation with their advisor on or before the end of the eighth week of the previous fall semester. Seniors completing graduation requirements at the end of the spring semester or either of the following summer sessions must submit an application for graduation and complete a degree audit in consultation with their advisor on or before the end of the eighth week of the previous spring semester.

Students who file an application for graduation but fail to complete all graduation requirements as planned must submit a new degree audit and new application for graduation.

Financial Obligation

Before any transcript is issued, the student must have paid any debt owed the University.

Graduation Honors

The bachelor's degree with honors will be conferred upon candidates who at graduation have earned a minimum grade point average on all courses taken at Arkansas Tech as follows: Summa Cum Laude-3.900 - 4.000, Magna Cum Laude-3.700 - 3.899, Cum Laude-3.500 - 3.699. Graduation honors will be determined by work taken at Arkansas Tech only. The associate degree with honors will be conferred upon candidates subject to the grade point average criteria listed above. **This policy is effective to new students enrolling in the first summer term, 2000, and subsequent terms. Previously enrolled students should contact the Office of the Registrar for clarification of the policy.**

Commencement Participation

Students must complete all degree requirements prior to participating in the December, May, or August commencement ceremonies. Students completing all degree requirements in the fall semester will participate in the December commencement ceremony; spring semester will participate in the May commencement ceremony; and summer terms will participate in the commencement ceremony held in August. Students will not participate in the commencement ceremony if all degree requirements are not completed prior to the ceremony. Students not completing all requirements will participate in the next scheduled commencement ceremony providing all degree requirements are met. Students taking courses at other institutions must have official transcripts submitted to the Registrar's Office and have completed all degree requirements prior to the commencement ceremony to be allowed to participate.

Participation in commencement is expected of all candidates for degrees. Students who are unable to participate may officially petition the Vice President for Academic Affairs in writing for permission to have the degree awarded in absentia.

Students who do not have a minimum grade point of 2.00 in the major and overall will not be eligible to participate in the commencement ceremony.

Academic regalia shall be worn by the student during the graduation ceremony (see University Bookstore). The academic regalia will consist only of the cap and gown. No decorations, writings, necklaces, braids, pins, cords, medallions or other items other than the Arkansas Tech University Honors cord and medallion shall be worn or placed on the academic regalia.

Diplomas are mailed to graduates six to eight weeks following commencement.

Requirements for Baccalaureate Degrees

In compliance with Act 1014 of 2005, Arkansas Tech University has developed guaranteed, eight-semester degree completion plans for most of the baccalaureate degree programs offered by the institution.

A. General Requirements

1. A student must earn a minimum of 30 semester hours taken from Arkansas Tech, at least 6 semesters hours of which must be upper division work in the student's major. Certain programs may have more rigorous standards due to, for example, accreditation standards or licensure requirements.
2. No more than a total of 30 semester hours of correspondence, extension, military service, or credit by examination work may be applied as credit towards a degree.
3. At least 120 semester hours (excluding pre-college level courses) must be successfully completed.
4. The cumulative grade point average must not be less than 2.00 and not more than 25 percent of the semester hours may carry the "D" grade. Students must have a 2.00 grade point in their major and a 2.00 grade point in their minor, if applicable.
5. At least 40 semester hours must be in junior and senior courses, preferably more.
6. No more than four semester hours of activity credit may be counted toward graduation. The only exception is that a student may have the standard allowance of military credit (three hours of military science and three hours of PE credit) and four other hours of activity credit for a total of ten semester hours. A student registering for an activities course in excess of these limits receives no credit for the additional course and the grade is not included in the computation of grade point.
7. Only six hours of freshman English composition may be used to satisfy degree requirements.
8. For non-business majors, no more than 30 hours of courses offered by the College of Business may be counted towards completion of degree requirements.

B. General Education Requirements

To meet the need for all students to have educational experiences which broaden their knowledge of the arts, humanities, and sciences, all curricula are designed to include basic courses in these areas. Students should refer to the curriculum in their major area of study for specific courses either recommended or required by the academic department to fulfill the general education requirements (see "[English - 6 hours](#)").

C. Competence in English, Mathematics, and Reading

Each candidate for a baccalaureate degree is required to demonstrate the ability to write English clearly and correctly by completing the freshman composition courses ([ENGL 1013](#) or [ENGL 1043](#) and [ENGL 1023](#) or [ENGL 1053](#)) with a grade of "C" or better. A student who receives a grade of "D" or "F" in [ENGL 0303](#), [ENGL 1013](#), or [ENGL 1043](#) must repeat the course to earn a grade of "C" or better before enrolling in the next course of the English sequence. The same criteria apply to transfer students.

A student who is placed in [READ 0103](#) must earn a grade of "C" or better in the course or receive a departmental waiver to complete the reading requirement.

Students showing evidence of deficiency in mathematics will be counseled to enroll in appropriate remedial courses. All students must earn a grade of "C" or higher in the course used to satisfy the general education mathematics requirement.

D. Examination for Education Majors or Teacher Candidates

Section 1 (b) of Act 5 of the first Special Extraordinary Session (1983) of the Arkansas General Assembly stipulates: "After July 1, 1984, all colleges and universities in this State shall require persons who are education majors or teacher candidates to take the examination prescribed by the State Board of Education for initial certification as a teacher in the public schools of this State and to report the results of the examination to the college or university prior to graduation. All colleges and universities in this State shall report the results of the examinations to the Department of Education upon request."

E. An official record of any correspondence or transfer work completed at another institution must be on file in the Registrar's Office prior to the end of the semester or term in which graduation is planned.

Requirements for a Minor

Arkansas Tech University offers 41 minors with requirements varying from 17-21 semester hours. Only candidates for a bachelors degree are eligible for minors. In order for the minor to be awarded a student must earn a 2.0 grade point average in the courses used to complete the minor. A minimum of 6 semester hours must be taken in residence and the same catalog must be used to complete requirements for both the major and the minor. Specific requirements for each minor are stated in the respective sections of this catalog.

Requirements for Associate Degrees

The requirements for the associate degree in medical assistant are outlined under the statements of the College of Natural and Health Sciences; requirements for the associate degrees in information technology and nuclear technology are outlined under the statements of the College of Applied Sciences; and requirements for the associate degree in early childhood education is outlined under the statements of the College of Professional Studies and Community Outreach. The requirements for the associate degree in general studies are outlined under the statements of the College of Arts and Humanities. In addition to completing the necessary hours prescribed, candidates for associate degrees must meet the following requirements:

1. A student must earn a minimum of 30 semester hours taken from Arkansas Tech.
2. No more than a total of 30 semester hours of correspondence, extension, military service, or credit by examination work may be applied as credit towards a degree.
3. Refer to major field of study for semester hour requirements.
4. The cumulative grade point average must not be less than 2.00 and not more than 25 percent of the semester hours may carry the "D" grade. Students must have a 2.00 grade point in their major.
5. No more than four semester hours of activity credit may be counted toward graduation. The only exception is that a student may have the standard allowance of military credit (three hours of military science and three hours of PE credit) and four other hours of activity credit for a total of ten semester hours. A student registering for an activities course in excess of these limits receives no credit for the additional course and the grade is not included in the computation of grade point.
6. Only six hours of freshman English composition may be used to satisfy degree requirements.
7. An official record of any correspondence or transfer work completed at another institution must be on file in the Registrar's Office prior to the end of the semester or term in which graduation is planned.

Requirements for Additional Degrees

Baccalaureate Degrees

Students who have already received a baccalaureate degree may earn an additional baccalaureate degree by completing a minimum of 30 additional semester hours from Arkansas Tech, at least 6 semester hours of which must be upper division work in the student's major. Certain programs may have more rigorous standards due to, for example, accreditation standards or licensure requirements. All degree requirements must be satisfied. Students pursuing a second baccalaureate degree must use the Arkansas Tech University catalog in effect at the time they first enroll subsequent to receiving the first degree or any subsequent Tech catalog provided they were enrolled at the University during the year the catalog was in effect.

Associate Degrees

To complete an additional associate degree, whether the first degree is a bachelor or associate, the following must be completed: (a) a minimum of 30 semester hours at Arkansas Tech in addition to the hours for the first degree, (b) all University catalog requirements for the major field of study, (c) applicable requirements specified under "Requirements for Associate Degrees".

Students pursuing an associate degree must use the Arkansas Tech University catalog in effect at the time they first enroll or any subsequent Tech catalog provided they were enrolled at the University during the year the catalog was in effect.

Assessment Program

Both departmental and university-wide measures are used to evaluate student progress toward general and program-related educational goals. The measures include best practices used throughout the United States and Canada and involve faculty, students, and staff. In addition to direct measurement of student learning in specific classes, capstone courses, and student internships, students may be asked to complete surveys or participate in focus groups, senior exit interviews, and other assessment activities designed to ensure continual improvement in quality of learning. A final key component of program assessment involves detailed monitoring of student scores on nationally standardized exams, licensure tests, and certification requirements.

Information specific to each academic major is available on the appropriate departmental website. Information about assessment of general education goals may be found on the University Assessment website. Additional details about university assessment can be obtained by contacting the Coordinator of University Assessment or the Director of Institutional Research.

General Education Requirements

The general education curriculum is designed to provide a foundation for knowledge common to educated people and to develop the capacity for an individual to expand that knowledge over his or her lifetime. Students who have completed the general education curriculum at Arkansas Tech University will be able to:

Communicate effectively

Think critically

Develop ethical perspectives

Apply scientific and quantitative reasoning

Demonstrate knowledge of the arts and humanities

Understand wellness concepts

To accomplish the above goals, Arkansas Tech requires the completion of the following general education curriculum. Students should refer to the curriculum in their major area of study for specific courses either recommended or required by the academic department to fulfill the general education requirements.

English - 6 hours

(See Course Descriptions for minimum grade requirements)

Three hours from one of the following:

[ENGL 1013](#) Composition I

[ENGL 1043](#) Honors Composition I

Three additional hours from one of the following:

[ENGL 1023](#) Composition II

[ENGL 1053](#) Honors Composition II

Mathematics - 3 hours

(See Course Descriptions for minimum grade requirements)

Three hours from one of the following:

[MATH 1003](#) College Mathematics

[MATH 1113](#) College Algebra

Any higher level mathematics course

Science - 8 hours

Complete a total of eight hours of science with laboratory

US History or Government - 3 hours

Three hours from one of the following:

[HIST 1903](#) Survey of American History

[HIST 2003](#) U.S. History I

[HIST 2043](#) Honors U.S. History I

[HIST 2013](#) U.S. History II

[POLS 2003](#) American Government

Social Sciences, Fine Arts/Humanities, Speech Communications - 15 hours

(Complete one of the following 3 options):

Option 1:

Social Sciences - 6 hours
Fine Arts and Humanities - 6 hours
Speech Communications - 3 hours

Option 2:

Social Sciences - 6 hours
Fine Arts and Humanities - 9 hours

Option 3:

Social Sciences - 9 hours
Fine Arts and Humanities - 6 hours

Speech Communications

[SPH 1003](#) Introduction to Speech Communication

[SPH 2003](#) Public Speaking

[SPH 2173](#) Business and Professional Speaking

Social Sciences

(Students majoring in engineering may substitute up to six hours of upper level humanities, social sciences, mathematics, or science)

[AMST 2003](#) American Studies

[ANTH 1213](#) Introduction to Anthropology

[ANTH 2003](#) Cultural Anthropology

[ECON 2003](#) Principles of Economics I

[ECON 2013](#) Principles of Economics II

[ECON 2103](#) Honors Principles of Economics I

[GEOG 2013](#) Regional Geography of the World

[HIST 1503](#) World Civilization I

[HIST 1513](#) World Civilization II

[HIST 1543](#) Honors World Civilization I

[HIST 1903](#) Survey of American History

[HIST 2003](#) U.S. History I

[HIST 2013](#) U.S. History II

[HIST 2043](#) Honors U.S. History I

[POLS 2003](#) American Government

[PSY 2003](#) General Psychology

[SOC 1003](#) Introductory Sociology

Fine Arts and Humanities

[ART 2123](#) Experiencing Art

[ENGL 2003](#) Introduction to World Literature

[ENGL 2013](#) Introduction to American Literature

[ENGL 2023](#) Honors World Literature

[ENGL 2173](#) Introduction to Film

[JOUR 2173](#) Introduction to Film

[MUS 2003](#) Introduction to Music

[PHIL 2003](#) Introduction to Philosophy

[PHIL 2043](#) Honors Introduction to Philosophy

[TH 2273](#) Introduction to Theatre

Freshman Orientation

Beginning fall, 2008, all entering freshmen are required to take an orientation course during their first semester of enrollment (fall or spring). A number of the academic majors have an orientation course designed specific to the major. Students whose declared major does not have an orientation course or who are undeclared will take [CSP 1013](#), Principles of Collegiate Success, or [TECH 1001](#), Orientation to the University.

All orientation courses are designed to introduce the beginning student to the Arkansas Tech University campus, its culture, and traditions, and will contain certain common topics. Important policies governing campus life will be explained, and campus resources will be identified. Topics covered in each course will answer many questions typical freshmen have, which will assist in the transition from a high school environment. Subject matter will include managing time, setting academic goals, exam preparation, study and note-taking skills, introduction to library resources, and choosing a major and career.

State Minimum Core

The courses that comprise Tech's general education curriculum also constitute the University's State Minimum Core, established in accordance with Act 98 of 1989, for implementation the fall semester of 1991. Act 98 requires colleges and universities to identify "a minimum core of courses which shall apply toward the general education core curriculum requirements for baccalaureate degrees at state supported institutions of higher education and which shall be fully transferable between state institutions."

Credit By Examination

Information concerning the following tests may be obtained from the Arkansas Tech University Testing Center or from the appropriate department.

IB (International Baccalaureate) Program

High school students who participated in the International Baccalaureate (IB) Program may receive college credit by attaining Tech's IB qualifying score. Credit earned through IB may satisfy general education requirements. Scores of 5, 6, or 7 on standard level exams will provide three units elective credit in the subject area and will satisfy Core Curriculum requirements, as appropriate to the subject area. Scores of 5, 6, or 7 on higher level exams will provide six units of elective credit in the subject area and will satisfy Core Curriculum requirements, as appropriate to the subject area. Advanced placement in major courses will be awarded in consultation with the Department Chair. Following are the IB examinations that Tech will accept, the corresponding qualifying score, and credit awarded.

IB Examination	Qualifying Score	Credit Awarded
Anthropology/Standard	5	<u>ANTH 1213</u>
Biology/Standard or Higher	5	<u>BIOL 1014</u> or <u>BIOL 1114</u>
Chemistry/Standard	5	<u>CHEM 2124</u>
Chemistry/Higher	5	<u>CHEM 2124</u> & <u>CHEM 2134</u>
Computer Science/Standard or Higher	5	<u>COMS 2104</u>
Economics/Standard	5	<u>ECON 2003</u>
Economics/Higher	5	<u>ECON 2003</u> & <u>ECON 2013</u>
English/Standard	5	<u>ENGL 1013</u>
English/Higher	5	<u>ENGL 1013</u> & <u>ENGL 1023</u>
History/Standard	5	<u>HIST 1503</u>
History/Higher	5	<u>HIST 1503</u> & <u>HIST 1513</u>
Math Studies/Standard or Higher	5	<u>MATH 1113</u>
Math/Standard	5	<u>MATH 2914</u>
Math/Higher	5	<u>MATH 2914</u> & <u>MATH 2924</u>
Music/Standard	5	<u>MUS 1713</u>
Music/Higher	5	<u>MUS 1713</u> & <u>MUS 1723</u>
Philosophy/Higher	5	<u>PHIL 2003</u>
Physics/Standard	5	<u>PHYS 2014</u>
Physics/Higher	5	<u>PHYS 2014</u> & <u>PHYS 2024</u>
Psychology/Higher	5	<u>PSY 2003</u>
Social Anthropology/Higher	5	<u>ANTH 2003</u>

AP (Advanced Placement) Program

High school students who participated in The College Board's AP Program may receive college credit by attaining Tech's AP qualifying score. Credit earned through AP may satisfy general education requirements. Following are the AP examinations that Tech will accept, the corresponding qualifying score required, and credit awarded.

AP Examination	Qualifying Score	Credit Awarded
Art History	4	<u>ART 2103</u>
Art History	5	<u>ART 2103</u> & <u>ART 2133</u>
Biology	4	<u>BIOL 1014</u> OR <u>BIOL 1114</u>
Calculus AB	3	<u>MATH 2914</u>
Calculus BC	3	<u>MATH 2914</u> & <u>MATH 2924</u>
Chemistry	3	<u>CHEM 1113</u> , <u>CHEM 1111</u> & <u>CHEM 2204</u> or <u>CHEM 2124</u> & <u>CHEM 2134</u>
Chinese Language & Culture	2	<u>CHIN 1014</u>
Chinese Language & Culture	4	<u>CHIN 1014</u> & <u>CHIN 1024</u>
Computer Science A	3	<u>COMS 2104</u>
Computer Science A	4	<u>COMS 2104</u> & <u>COMS 2203</u>
English Lang/Comp or Lit/Comp	3	<u>ENGL 1013</u>
English Lang/Comp or Lit/Comp	4	<u>ENGL 1013</u> & <u>ENGL 1023</u>
Environmental Science	4	<u>BIOL 1004</u> or <u>PHSC 1004</u>
French Language	2	<u>FR 1014</u>
French Language	4	<u>FR 1014</u> & <u>FR 1024</u>
German Language	2	<u>GER 1014</u>
German Language	4	<u>GER 1014</u> & <u>GER 1024</u>
Government & Politics: Comparative	4	<u>POLS 2403</u>
Government & Politics: US	3	<u>POLS 2003</u>
Human Geography	3	<u>GEOG 2023</u>
Italian Language & Culture	2	<u>ITAL 1014</u>
Italian Language & Culture	4	<u>ITAL 1014</u> & <u>ITAL 1024</u>
Japanese Language & Culture	2	<u>JPN 1014</u>
Japanese Language & Culture	4	<u>JPN 1014</u> & <u>JPN 1024</u>
Latin/Vergil	2	<u>LAT 1013</u>
Latin/Vergil	4	<u>LAT 1013</u> & <u>LAT 1023</u>
Macroeconomics	4	<u>ECON 2003</u>
Music Theory	3	<u>MUS 1713</u> , <u>MUS 1723</u> , <u>MUS 1731</u> & <u>MUS 1741</u>
Physics B	3	<u>PHYS 2014</u> & <u>PHYS 2024</u>
Physics C: Electricity & Magnetism	3	<u>PHYS 2124</u>
Physics C: Mechanics	3	<u>PHYS 2114</u>
Psychology	3	<u>PSY 2003</u>
Spanish Language	2	<u>SPAN 1014</u>
Spanish Language	4	<u>SPAN 1014</u> & <u>SPAN 1024</u>
Spanish Literature	4	<u>SPAN 4213</u>
Statistics	3	<u>MATH 2163</u>
Studio Art Design 2-D	4	<u>ART 1403</u>
Studio Art Drawing	4	<u>ART 1303</u>
United States/American History	3	<u>HIST 2003</u> & <u>HIST 2013</u>
World History	3	<u>HIST 1503</u> & <u>HIST 1513</u>

College Level Examination Program (CLEP)

CLEP allows students to earn credit toward graduation by attaining Tech's qualifying score on either the general and/or subject examinations. A student may acquire a maximum of 30 hours of college credit through CLEP. Credit earned through CLEP may satisfy general education requirements. No more than one subject examination may be taken in a particular departmental area, and students must have prior approval from the department in which they are majoring to count the hours toward graduation.

It is recommended that an ACT sub-score of 24 or above or an SAT sub-score of 500 or above be used as a guideline for attempting to earn credit through CLEP. Following are the CLEP examinations that Tech will accept, the corresponding qualifying score required, and credit awarded.

CLEP Examination	Qualifying Score	Credit Awarded
American Government	50	POLS 2003
American Literature	50	ENGL 2013
Biology	50	BIOL 1014 or BIOL 1114
Calculus	50	MATH 2914
Chemistry	50	CHEM 2124
Chemistry	55	CHEM 2124 & CHEM 2134
College Algebra	50	MATH 1113
College Mathematics	50	MATH 1003
College Composition	50	ENGL 1013
College Composition	59	ENGL 1013 & ENGL 1023
College Composition Modular	50	ENGL 1013
College Composition Modular	59	ENGL 1013 & ENGL 1023
English Literature	50	ENGL 3413
English Literature	55	ENGL 3413 & ENGL 3423
French Language	42	FR 1014
French Language	50	FR 1014 & FR 1024
German Language	43	GER 1014
German Language	55	GER 1014 & GER 1024
History of the United States I	50	HIST 2003
History of the United States II	50	HIST 2013
Humanities	50	HUM 2003
Information Systems & Computer Applications	52	COMS 1003
Natural Sciences	56	BIOL 1014 , PHSC 1013 , & PHSC 1021
Precalculus	50	MATH 1914
Principles of Macroeconomics	50	ECON 2003
Psychology, Introductory	50	PSY 2003
Social Sciences & History	50	HIST 1503
Social Sciences & History	56	HIST 1503 & HIST 1513
Sociology, Introductory	50	SOC 1003
Spanish Language	45	SPAN 1014
Spanish Language	55	SPAN 1014 & SPAN 1024

Institutional Credit

Computer Science

Students with previous computer experience may petition the Department of Computer and Information Science for credit for [COMS 1003](#) Introduction to Computer Based Systems. Petitioners will be given written and/or oral examinations by a computer science faculty member.

Engineering

Students who complete the appropriate Project Lead the Way (PLTW) course(s) with an average of "B" or better and score 70% or higher score on the corresponding PLTW college credit exam(s) may receive institutional credit for [MCEG 1002](#), Engineering Graphics, and/or [MCEG 1012/ELEG 1012](#), Introduction to Engineering.

Foreign Language

Students with previous foreign language experience may petition the Department of English and World Languages for advanced placement and credit. Petitioners will be given written and/or oral examinations by a foreign language faculty

member, who will then recommend an appropriate foreign language placement level. This placement level will not exceed [FR 3013](#), [GER 3013](#), [JPN 2024](#), [LAT 2023](#), or [SPAN 3013](#), and will be approved by the department head. Students who have omitted one or more courses in the basic language sequence will receive credit for omitted courses when they have validated their advanced placement by passing the course into which they are placed with a grade of “C” or better.

Challenge Subject Examinations

Students who have had extensive experience in health care and industrial settings may elect to attempt to earn credit through an institutional challenge examination in the following subjects or technical programs:

[AHS 2013](#) Medical Terminology

[HIM 3023](#) Introduction to Health Information Management

[HIM 3033](#) Basic Coding Principles

[HIM 3133](#) Alternative Health Records

[HIM 3132](#) Health Data and Statistics

Nursing Examinations

Registered nurses, licensed practical nurses, and/or licensed psychiatric technician nurses seeking admission to Arkansas Tech University’s nursing program may elect to demonstrate and validate previous collegiate-quality nursing education. This may be accomplished by successfully completing certain ACT-PEP, CLEP, and National League for Nursing examinations. See the “Department of Nursing”.

Internships

Arkansas Tech University endorses the internship approach to learning and has adopted university-wide guidelines. This approach can help students understand the reality of certain careers and supplement academic instruction with practical, realistic implementation in a work environment. Academic credit can be earned for internships in several degree programs. Please see individual programs for availability of specific degree credit.

University Honors

The University Honors program at Arkansas Tech University is designed to provide an enriched intellectual experience for students of outstanding educational talents and leadership potential. At Arkansas Tech University, the honors student will benefit from opportunities to interact with other highly-motivated students and outstanding professors in the challenging atmosphere of small, innovative honors classes specially designed to foster rational enquiry, critical thinking, and analytical skills.

Dr. Ellen J. Jenkins, Director
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(479) 968-0456
ejenkins@atu.edu

Application to University Honors should be made as early as possible during the senior year of the high school student. Honors students are selected through an application process which includes a written essay and a personal interview on our campus. To be eligible for University Honors, the high school student must have a minimum ACT Composite score of 28 and a cumulative grade point average of 3.5 or higher.

Students in the honors program take special General Education courses in their freshman and sophomore years. Sophomores participate in on-campus volunteer projects, followed by participation as peer mentors during the junior year. The senior year requires completion of the Senior Honors Project, as well as presentation of project results at an annual Senior Honors Symposium.

Students selected for the University Honors program receive excellent scholarships as well as such privileges as preferred preregistration, opportunities for individual directed study with Tech professors, and special recognition at commencement. The prescribed curriculum for the University Honors program is provided below.

HONORS CURRICULUM

Freshman Year		
Fall Semester:	<u>HONR 1001</u> Freshman Honors Seminar	1 hour
	<u>ENGL 1043</u> Honors Composition I	3 hours
	<u>HIST 1543</u> Honors World Civilization I OR	3 hours
	<u>HIST 2043</u> Honors US History I	
Spring Semester:	<u>PHSC 1033</u> Honors Introduction to Physical Science AND	3 hours
	<u>PHSC 1031</u> Honors Physical Science Laboratory OR	1 hour
	<u>BIOL 2144</u> Honors Zoology	4 hours
	<u>ENGL 1053</u> Honors Composition II	3 hours
Sophomore Year		
Fall Semester:	<u>ECON 2103</u> Honors Principles of Economics I	3 hours
	Campus Service Component	
Spring Semester:	<u>PHIL 2043</u> Honors Introduction to Philosophy OR	3 hours
	<u>ENGL 2023</u> Honors World Literature	
	Campus Service Component	
Junior Year		
Fall Semester:	Mentor incoming Honors	
Spring Semester:	Write proposal for the Seniors Honors Project	
Senior Year		
Fall Semester:	<u>HONR 4093</u> Senior Honors Project	3 hours
Spring Semester:	Honor students will present their Senior Honors Projects at the Senior Honors Symposium.	
		Total Hours 19 - 23

College of Applied Sciences

Mission

The mission of the College is to provide high quality opportunities for learning that prepare students for their chosen profession and provide a foundation for life-long learning.

Dr. William Hoefler, Dean
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whoeflerjr@atu.edu
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Core Values

The College of Applied Sciences values student learning. The College values scholarly activity, especially as it relates to the enhancement of teaching and its positive impact on student learning. The College values service to the University and to the local and professional communities. The College seeks to demonstrate to students, and instill in them, high ethical standards of personal and professional conduct. The College continually seeks to improve all its programs.

The College of Applied Sciences seeks to equip students with the interdisciplinary, technical, and critical-thinking skills that are necessary to develop workable solutions to complex problems. The College is composed of six academic departments: Agriculture, Computer and Information Science, Electrical Engineering, Emergency Management, Mechanical Engineering, and Parks, Recreation and Hospitality Administration. These departments offer programs of study leading to the baccalaureate and associate degrees listed below.

Bachelor of Science

[Agriculture Business](#) with options in:

[Horticulture Business](#)
[Animal Science](#)
[Pest Management](#)
[Pre-Veterinary Medicine](#)
[Public Relations](#)
[Agriculture Education](#)
[Computer Science](#)
[Information Systems](#)
[Emergency Management](#)
[Information Technology](#)

Hospitality Administration with emphasis in:

[Lodging and Club Management](#)
[Tourism and Event Management](#)
[Food and Beverage Management](#)

Recreation and Park Administration with emphases in:

[Recreation Administration](#)
[Therapeutic Recreation](#)
[Natural Resource](#)
[Turf Management](#)
[Interpretation](#)

Bachelor of Science in Electrical Engineering

[Electrical Engineering](#)
[Computer Engineering](#)

Bachelor of Science in Mechanical Engineering

[Mechanical Engineering](#)

Associate of Applied Science

[Information Technology](#)
[Culinary Management](#)

Associate of Science in Nuclear Technology

[Nuclear Technology](#)

Transfer Students

Applicability of transfer credit to meet specific degree requirements depends on the major selected by the transfer student. The transfer student should review the Transfer Credit policy in the Admission section of this catalog and meet with their academic advisor to determine final transfer credit eligibility for the selected program of study.

Department of Agriculture

The Agriculture Department includes programs of study as follows:

1. A four-year curriculum in agriculture business, with horticulture and animal science, pest management and pre-veterinary medicine options, leading to a bachelor of science degree.
2. Pre-veterinary medicine - Through proper advising and taking courses in proper sequence, students can meet the minimum course requirements for entrance into Louisiana State University, University of Missouri, Oklahoma State University, Tuskegee Institute, and other institutions offering the D.V.M degree in two years.
3. Agricultural Education - Students interested in teaching agriculture in secondary schools should follow the curriculum set forth in this catalog under the [agricultural education for teacher licensure](#) curricula in the College of Education.

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Professors:
Collins, Hoefler, Rainey
Associate Professor:
Brant
Assistant Professors:
Fairbanks, Killingsworth, Re
Williams

The objectives of the department are to:

1. provide a balanced educational program with relatively broad interdisciplinary training as opposed to narrow specialization, thus preparing the student for success in his/her chosen field and in his/her citizenship responsibilities.
2. serve and assist the student in educational and personal problems through active faculty counseling.
3. assist the student in development and improvement of leadership abilities through encouragement of active participation in activities of the Agri Club, FFA Day and other extracurricular activities.

The baccalaureate degree program in agri-business integrates the discipline of agriculture, business, accounting, economics, and finance. Emphasis is placed on management directed toward the farm business and agri-business

Trends in occupations related to agriculture are shifting from production to agri-business services such as manage processing, distribution, and marketing. This creates a need for personnel with a broad background in these areas training. Our systems concept is geared to integration of disciplines to better prepare graduates for present day ne

Attractive career opportunities exist in agricultural business firms, banks and other financial agencies, marketing, fr processing, extension, soil conservation, forestry, farm and agri-business management, and sales and distribution

The curricula that follow represent the program of study for the four-year degree in agri-business, including the horticulture, animal science, pest management, pre-veterinary medicine, and public relations options. Students eni programs other than agri-business may want to tailor their curriculum to best meet their individual needs.

Curriculum in Agriculture Business

Degree Completion Plan Beginning in Fall Semester			
Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3
CHEM 1113 and CHEM 1111 ^T	4	AGPS 1024	4
AGAS 1014	4	AGBU 1013	3
AGBU 1001	1	MATH 1113 ^T	3
AGPS 1003	3	COMS 1003 ^T	3
Total Hours	15	Total Hours	16
Junior		Senior	
Fall	Spring	Fall	Spring
Elective ^{3,T}	3	Elective ^{3,T}	2
		AGBU 4003	3
			AGBU 4023

Agriculture Elective ²	4	Agriculture Elective ²	6	Agriculture Elective ²	6	Agriculture Elective ²	6
AGBU 3213	3	Social Sciences ^{1,T}	6	AGBU 4013	3	Elective ^{3,T}	3
AGEG 3413	3					AGBU 4033	
Fine Arts & Humanities ^{1,T}	3						
Total Hours	16	Total Hours	14	Total Hours	12	Total Hours	12

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	AGBU 2073	3	BLAW 2033 ^T	
COMS 1003 ^T	3	CHEM 1113 and CHEM 1111 ^T	4	MATH 2163 ^T	3	AGBU 2063	
AGBU 1013	3	AGAS 1014	4	AGSS 2014	4	ACCT 2003 ^T	
AGPS 1024	4	AGPS 1003	3	Fine Arts & Humanities ^{1,T}	3	BIOL 1014 ^T	
AGBU 1001	1	MATH 1113 ^T	3	U.S. History/Government ^{1,T}	3	SPH 2173 ^T	
Total Hours	14	Total Hours	17	Total Hours	16	Total Hours	16
Junior				Senior			
Spring		Fall		Spring		Fall	
Social Sciences ^{1,T}	6	Elective ^{3,T}	3	AGBU 4023	3	AGBU 4003	
Agriculture Elective ²	6	Agriculture Elective ²	4	AGBU 4033	3	Agriculture Elective ²	3
Elective ^{3,T}	2	AGEG 3413	3	Agriculture Elective ²	6	AGBU 4013	
		AGBU 3213	3	Elective ^{3,T}	3		
		Fine Arts & Humanities ^{1,T}	3				
Total Hours	14	Total Hours	16	Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". (Except [ECON 2003](#)).

²At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

³Recommended electives are [SPAN 1014](#) and [SPAN 1024](#).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses taken at another college or university.

**Curriculum in Agriculture Business
(Horticulture Option)**

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	BLAW 2033 ^T	3	AGBU 2073	
BIOL 1014 or BIOL 2134 ^T	4	AGPS 1024	4	AGBU 2063	3	AGSS 2014	
AGAS 1014	4	AGBU 1013	3	ACCT 2003 ^T	3	MATH 2163 ^T	
AGBU 1001	1	MATH 1113 ^T	3	SPH 2173 ^T	3	U.S. History/Government ^{1,T}	
AGPS 1003	3	COMS 1003 ^T	3	CHEM 1113 and CHEM 1111 ^T	4	Fine Arts & Humanities ^{1,T}	
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours	16
Junior				Senior			

Fall		Spring		Fall		Spring	
<u>AGPS 3044</u>	4	Elective ^{2,T}	2	<u>AGBU 4003</u>	3	<u>AGBU 4033</u>	3
<u>AGPS 3244</u>	4	<u>Social Sciences</u> ^{1,T}	6	<u>AGBU 4013</u>	3	<u>AGBU 4023</u>	3
Elective ^{2,T}	2	<u>AGPS 3064</u>	4	<u>AGPM 3104</u> or <u>AGPS 3053</u> and <u>AGBU 4991</u>	4	<u>AGPS 4103</u>	4
<u>AGBU 3213</u>	3	<u>AGPS 3093</u>	3	<u>AGPS 3074</u>	4	<u>AGPS 3083</u>	4
<u>Fine Arts & Humanities</u> ^{1,T}	3						
Total Hours	16	Total Hours	15	Total Hours	14	Total Hours	14

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3
<u>COMS 1003</u> ^T	3	<u>AGAS 1014</u>	4
<u>AGPS 1024</u>	4	<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4
<u>MATH 1113</u> ^T	3	<u>MATH 2163</u> ^T	3
<u>AGBU 1001</u>	1	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>AGBU 1013</u>	3	<u>U.S. History/Government</u> ^{1,T}	3
Total Hours	17	Total Hours	16
Junior		Senior	
Spring	Fall	Spring	Fall
Elective ^{2,T}	2	<u>AGPS 3083</u>	3
<u>AGPS 3093</u>	3	<u>AGBU 4023</u>	3
<u>Social Sciences</u> ^{1,T}	6	Elective ^{2,T}	3
<u>AGPS 3064</u>	4	<u>AGBU 4033</u>	3
		<u>AGPS 4103</u>	3
		<u>Fine Arts & Humanities</u> ^{1,T}	3
Total Hours	15	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)" (Except ECON 2003).

²Recommended electives are SPAN 1014 and SPAN 1024.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Agriculture Business (Animal Science Option)

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3	<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4
<u>BIOL 1014</u> ^T	4	<u>SPH 2173</u> ^T	3
<u>AGAS 1014</u>	4	<u>AGBU 2063</u>	3
<u>AGPS 1003</u>	3	<u>BLAW 2033</u> ^T	3
		<u>AGAS 2083</u>	4
		<u>AGBU 2073</u>	3
		<u>MATH 2163</u> ^T	3
		<u>AGSS 2014</u>	3

<u>AGBU 1001</u>	1	<u>MATH 1113</u> ^T	3	<u>ACCT 2003</u> ^T	3	<u>U.S. History/Government</u> ^{1,T}
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours
Junior		Spring		Senior		Spring
Fall				Fall		
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>AGBU 4003</u>	3	<u>AGAS 3014</u>
Elective	3	Poultry Science ³	3	<u>AGBU 4013</u>	3	Elective ^{2,T}
<u>AGBU 3213</u>	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>AGAS 4203</u>	3	<u>AGBU 4023</u>
<u>AGAS 3004</u>	4	<u>AGAS 3104</u>	4	<u>Social Sciences</u> ^{1,T}	3	<u>AGBU 4033</u>
<u>AGEG 3413</u>	3			<u>AGPS 3024</u>	4	
Total Hours	16	Total Hours	13	Total Hours	16	Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore		
Spring		Fall		Spring		Fall
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>AGAS 2083</u>	3	<u>ACCT 2003</u> ^T
<u>AGPS 1024</u>	4	<u>MATH 1113</u> ^T	3	<u>AGBU 2073</u>	3	<u>SPH 2173</u> ^T
<u>AGBU 1013</u>	3	<u>AGPS 1003</u>	3	<u>MATH 2163</u> ^T	3	<u>AGBU 2063</u>
<u>COMS 1003</u> ^T	3	<u>AGAS 1014</u>	4	<u>AGSS 2014</u>	4	<u>BIOL 1014</u> ^T
<u>AGBU 1001</u>	1	<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4	<u>U.S. History/Government</u> ^{1,T}	4	<u>BLAW 2033</u> ^T
Total Hours	14	Total Hours	17	Total Hours	17	Total Hours
Junior				Senior		
Spring		Fall		Spring		Fall
<u>Social Sciences</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>AGAS 3014</u>	3	<u>AGBU 4003</u>
Poultry Science ³	3	<u>AGBU 3213</u>	3	<u>Social Sciences</u> ^{1,T}	3	<u>AGBU 4013</u>
<u>AGAS 3104</u>	4	Elective ^{2,T}	3	<u>AGBU 4023</u>	3	Elective ^{2,T}
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>AGAS 3004</u>	4	<u>AGBU 4033</u>	4	<u>AGAS 4203</u>
		<u>AGEG 3413</u>	3		3	<u>AGPS 3024</u>
Total Hours	13	Total Hours	16	Total Hours	16	Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". (Except ECON 2003).

²At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

³One of the following AGAS 3303, AGAS 3333, or AGAS 4403.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses taken at another college or university.

**Curriculum in Agriculture Business
(Pest Management Option)**

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore		
Fall		Spring		Fall		Spring
<u>AGAS 1014</u>	4	<u>AGPS 1024</u>	4	<u>ACCT 2003</u> ^T	3	<u>AGBU 2073</u>
<u>AGPS 1003</u>	3	<u>AGBU 1013</u>	3	<u>AGBU 2063</u>	3	<u>AGSS 2014</u>

<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4	<u>COMS 1003</u> ^T	3	<u>BLAW 2033</u> ^T	3	<u>Fine Arts & Humanities</u>
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>SPH 2173</u> ^T	3	<u>MATH 2163</u> ^T
<u>AGBU 1001</u>	1	<u>MATH 1113</u> ^T	3	<u>BIOL 1014</u> ^T	4	<u>U.S. History/Government</u> ^{1,T}
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours
Junior				Senior		
Fall		Spring		Fall		Spring
<u>AGBU 3213</u>	3	Agriculture Elective ³	1	<u>AGBU 4003</u>	3	<u>AGBU 4023</u>
<u>AGEG 3413</u>	3	Elective ^{2,T}	2	<u>AGBU 4013</u>	3	<u>AGBU 4033</u>
<u>AGPS 3244</u>	4	<u>AGPM 3124</u>	4	<u>AGPS 3053</u>	3	<u>AGPM 4103</u>
<u>AGPM 3104</u>	4	<u>Social Sciences</u> ^{1,T}	6	Elective ^{2,T}	3	<u>AGPS 4103</u>
<u>Fine Arts & Humanities</u> ^{1,T}	3					Elective ^{2,T}
Total Hours	17	Total Hours	13	Total Hours	12	Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore		
Spring		Fall		Spring		Fall
<u>AGPS 1024</u>	4	<u>AGAS 1014</u>	4	<u>AGBU 2073</u>	4	<u>ACCT 2003</u> ^T
<u>AGBU 1013</u>	3	<u>AGPS 1003</u>	3	<u>AGSS 2014</u>	3	<u>AGBU 2063</u>
<u>COMS 1003</u> ^T	3	<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4	<u>Fine Arts & Humanities</u> ^{1,T}	4	<u>BLAW 2033</u> ^T
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>MATH 2163</u> ^T	3	<u>SPH 2173</u> ^T
<u>MATH 1113</u> ^T	3			<u>U.S. History/Government</u> ^{1,T}	3	<u>BIOL 1014</u> ^T
<u>AGBU 1001</u>	1					
Total Hours	17	Total Hours	14	Total Hours	16	Total Hours
Junior				Senior		
Spring		Fall		Spring		Fall
Agriculture Elective ³	1	<u>AGBU 3213</u>	3	<u>AGBU 4023</u>	3	<u>AGBU 4003</u>
Elective ^{2,T}	2	<u>AGEG 3413</u>	3	<u>AGBU 4033</u>	3	<u>AGBU 4013</u>
<u>Social Sciences</u> ^{1,T}	6	<u>AGPS 3244</u>	4	<u>AGPM 4103</u>	4	<u>AGPS 3053</u>
<u>AGPM 3124</u>	4	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>AGPS 4103</u>	3	Elective ^{2,T}
		<u>AGPM 3104</u>	4	Elective ^{2,T}	4	3
Total Hours	13	Total Hours	17	Total Hours	15	Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)" (Except ECON 2003).

²Recommended electives are SPAN 1014 and SPAN 1024.

³At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

**Curriculum in Agriculture Business
(Public Relations Option)**

Degree Completion Plan Beginning in Fall Semester

Freshman			Sophomore
Fall		Spring	Fall
			Spring

<u>AGBU 1001</u>	1	<u>ENGL 1023</u> ^{1,T}	3	<u>BLAW 2033</u> ^T	3	<u>AGBU 2073</u>	3
<u>ENGL 1013</u> ^{1,T}	3	<u>AGPS 1024</u>	4	<u>AGBU 2063</u>	4	<u>BIOL 1014</u> ^T	3
<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4	<u>AGBU 1013</u>	3	<u>ACCT 2003</u> ^T	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>AGAS 1014</u>	4	<u>JOUR 2133</u>	3	<u>SPH 2173</u> ^T	3	<u>MATH 2163</u> ^T	3
<u>MATH 1113</u> ^T	3	<u>COMS 1003</u> ^T	3	<u>JOUR 2143</u>	3	<u>AGSS 2014</u>	3
<u>AGPS 1003</u>	3						
Total Hours	18	Total Hours	16	Total Hours	15	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>U.S. History/Government</u> ^{1,T}	3	<u>JOUR 4033</u>	3	<u>AGBU 4003</u>	3	<u>AGBU 4023</u>	3
<u>JOUR 3173</u>	3	<u>JOUR 3273</u>	3	<u>AGBU 3213</u>	3	<u>JOUR 4883</u>	3
<u>AGEG 3413</u>	3	<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 4073</u>	3	<u>JOUR 4173</u>	3
<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective ²	6	<u>Social Sciences</u> ^{1,T}	6	<u>AGBU 4033</u>	3
				<u>AGBU 4013</u>	3		3
Total Hours	12	Total Hours	15	Total Hours	15	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>AGBU 1001</u>	1	<u>ENGL 1023</u> ^{1,T}	3	<u>AGBU 2073</u>	3	<u>BLAW 2033</u> ^T	3
<u>ENGL 1013</u> ^{1,T}	3	<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4	<u>MATH 1113</u> ^T	4	<u>JOUR 3173</u>	3
<u>COMS 1003</u> ^T	3	<u>AGAS 1014</u>	4	<u>AGSS 2014</u>	4	<u>ACCT 2003</u> ^T	4
<u>AGBU 1013</u>	3	<u>AGPS 1003</u>	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>BIOL 1014</u> ^T	3
<u>AGPS 1024</u>	4			<u>JOUR 2143</u>	3	<u>SPH 2173</u> ^T	3
<u>JOUR 2133</u>	3						
Total Hours	17	Total Hours	14	Total Hours	16	Total Hours	16
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 4073</u>	3	<u>AGBU 4023</u>	3	<u>AGBU 4003</u>	3
<u>JOUR 3273</u>	3	<u>AGEG 3413</u>	3	<u>AGBU 4033</u>	3	<u>AGBU 3213</u>	3
Elective ²	3	<u>MATH 2163</u> ^T	3	<u>JOUR 4173</u>	3	Elective ²	3
<u>AGBU 2063</u>	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>JOUR 4883</u>	3	<u>AGBU 4013</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 4033</u>	3		3
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)" (Except ECON 2003).

²At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Pre-Professional Programs

Arkansas Tech University offers a complete pre-professional training program in pre-veterinary medicine. Statements and curricula for this program are listed below.

Dr. Malcolm Rainey
Coordinator
Dean Hall, Suite 123

**Curriculum in Agriculture Business
(Pre-Veterinary Medicine Option)**

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore	
Fall		Spring		Fall	Spring
<u>AGAS 1014</u>	4	<u>AGBU 1013</u>	3	<u>AGBU 2063</u>	3 <u>ACCT 2003</u> ^T
<u>BIOL 1114</u> ^T	4	<u>BIOL 2124</u> ^T	4	<u>Fine Arts & Humanities</u> ^{1,T}	3 <u>AGAS 2083</u>
<u>ENGL 1013</u> ^{1,T}	3	<u>CHEM 2124</u> ^T	4	<u>CHEM 2134</u> ^T	4 <u>AGBU 2073</u>
<u>COMS 1003</u> ^T	3	<u>ENGL 1023</u> ^{1,T}	3	<u>SPH 2173</u> ^T	3 <u>BLAW 2033</u> ^T
<u>AGBU 1001</u>	1			<u>PHYS 2014</u> ^T	4 <u>PHYS 2024</u> ^T
<u>MATH 1113</u> ^T	3				
Total Hours	18	Total Hours	14	Total Hours	17
Junior				Senior	
Fall		Spring		Fall	Spring
<u>AGBU 3213</u>	3	<u>BIOL 3034</u>	4	<u>AGBU 4003</u>	3 <u>BIOL 3054</u>
<u>AGAS 4203</u>	3	<u>CHEM 3264</u>	4	<u>AGBU 4013</u>	3 <u>AGBU 4023</u>
<u>U.S. History/Government</u> ^{1,T}	3	<u>MATH 2163</u> ^T	3	<u>AGAS 3004</u>	4 <u>AGBU 4033</u>
<u>CHEM 3254</u>	4	<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3 <u>CHEM 3344</u>
<u>Fine Arts & Humanities</u> ^{1,T}	3				
Total Hours	16	Total Hours	14	Total Hours	13

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore	
Spring		Fall		Spring	Fall
<u>AGBU 1013</u>	3	<u>AGAS 1014</u>	4	<u>ACCT 2003</u> ^T	3 <u>AGBU 2063</u>
<u>BIOL 1114</u> ^T	4	<u>BIOL 2124</u> ^T	4	<u>Fine Arts & Humanities</u> ^{1,T}	3 <u>AGAS 3004</u>
<u>CHEM 2124</u> ^T	4	<u>ENGL 1023</u> ^{1,T}	3	<u>AGBU 2073</u>	3 <u>U.S. History/Government</u> ^{1,T}
<u>ENGL 1013</u> ^{1,T}	3	<u>COMS 1003</u> ^T	3	<u>BLAW 2033</u> ^T	3 <u>SPH 2173</u> ^T
<u>AGBU 1001</u>	1	<u>MATH 1113</u> ^T	3	<u>CHEM 2134</u> ^T	4 <u>PHYS 2014</u> ^T
Total Hours	15	Total Hours	17	Total Hours	16
Junior				Senior	
Spring		Fall		Spring	Fall
<u>AGBU 4033</u>	3	<u>AGBU 3213</u>	3	<u>AGAS 2083</u>	3 <u>AGBU 4003</u>
<u>CHEM 3254</u>	4	<u>Social Sciences</u> ^{1,T}	6	<u>AGBU 4023</u>	3 <u>AGBU 4013</u>
<u>MATH 2163</u> ^T	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>CHEM 3264</u>	4 <u>CHEM 3344</u>
<u>PHYS 2024</u> ^T	4	<u>BIOL 3034</u>	4	<u>BIOL 3054</u>	4 <u>AGAS 4203</u>
Total Hours	14	Total Hours	16	Total Hours	14

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)" (Except [ECON 2003](#)).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Department of Computer and Information Science

The Computer and Information Science Department offers four undergraduate programs: a Bachelor of Science in Computer Science, a Bachelor of Science in Information Systems, a Bachelor of Science in Information Technology, and an Associate of Applied Science in Information Technology.

The Bachelor of Science in Computer Science and the Bachelor of Science in Information Systems programs are both accredited by the Computing Accreditation Commission (CAC) of ABET, Inc., the national accrediting board for engineering and technology.

In order to ensure continued program quality, the department strives to achieve the following objectives for its graduates and alumni:

- Communicate effectively using terminology and processes that are appropriate for the field
- Work efficiently and effectively in a team environment to develop support tools and systems to satisfy stated requirements
- Solve complex computational problems using appropriate models, techniques, and abstractions
- Conduct themselves in a professional and ethically responsible manner
- Learn new trends and technology and willingly adapt to new systems and software environments

The program in information systems prepares students for careers as application programmers/analysts in a business environment and for further graduate work in information systems. Business courses supplement a strong core of technical courses to enable students to design and implement business processing systems that require programming, databases, web development, networking, and client-server processing.

The program in computer science prepares students for careers as systems programmers in a scientific and/or engineering environment and for graduate work in computer science. Mathematics and engineering courses supplement a strong core of computer science courses, enabling students to design and implement software that requires complicated computations, data structures and interfaces.

The program in information technology prepares students for careers in administering and supporting the computing infrastructures of an organization. The curriculum consists of an integrated set of courses in networking, web development and administration, database development and administration, systems administration, and computer forensics.

Mr. Ron Robison, Head
Corley Building, Room 232
(479) 968-0663
rrobison@atu.edu

Professor:

Morell

Associate Professors:

Fang, Hoelzeman, Middleton, Nezu, R. Robison, S. Robison

Assistant Professors:

M. Brown, J. Moody, Wood

Instructors:

Cunningham, Park

Curriculum in Computer Science

Degree Completion Plan Beginning in Fall Semester					
Freshman		Sophomore			
Fall		Spring	Fall	Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	COMS 2203 ^T	COMS 3913	3
COMS 1403 ^T	3	COMS 2104 ^T	COMS 2903 ^T	COMS 2213 ^T	3
COMS 1411 ^T	1	COMS 2003 ^T	ELEG 2130 ^T	COMS 2223 ^T	3
Fine Arts & Humanities ^T	3	MATH 2914 ^T	ELEG 2134 ^T	ENGL 2053 ^T	3
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,T}	MATH 2924 ^T	Science Sequence I ^{2,T}	4
TECH 1001	1				
Total Hours	14	Total Hours	17	Total Hours	16
Junior		Senior			
Fall		Spring	Fall	Spring	
COMS 3213	3	COMS 3703	Social Sciences ^{1,T}	Management Elective ³	3
COMS 4203	3	COMS 4163	COMS 4033	COMS 4043	3
MATH 3153	3	COMS 4703	COMS 4103	COMS 4403	3
COMS 2703 ^T	3	COMS 4700	COMS 3053	Elective (Math or Science)	2
COMS 2700 ^T	0	Fine Arts & Humanities ^{1,T}	MATH 4003	Elective (3000-4000 level)	2
Science Sequence II ^{2,T}	4	SPH 2173 ^T			

Total Hours **16 Total Hours** **15 Total Hours** **15 Total Hours** **13**

Degree Completion Plan Beginning in Spring Semester

Freshman			Sophomore		
Spring	Fall		Spring	Fall	
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3	COMS 3913	3 SPH 2173 ^T	3
COMS 2104 ^T	4 COMS 2203 ^T	3	COMS 2213 ^T	3 COMS 4203	3
COMS 1403 ^T	3 COMS 2703 ^T	3	COMS 2223 ^T	3 ENGL 2053 ^T	3
COMS 1411 ^T	1 COMS 2700 ^T	0	COMS 2003 ^T	3 COMS 3213	3
TECH 1001	1 ELEG 2134 ^T	4	MATH 2914	4 MATH 2924 ^T	4
Fine Arts & Humanities ^{1,T}	3 ELEG 2130 ^T	0			
	COMS 2903 ^T	3			
Total Hours	15 Total Hours	16 Total Hours	16 Total Hours	16 Total Hours	16
Junior			Senior		
Spring	Fall		Spring	Fall	
COMS 3703	3 Social Sciences ^T	3	Management Elective ³	3 COMS 3053	3
COMS 4163	3 COMS 4033	3	COMS 4043	3 Elective 3000-4000 level 2	
COMS 4703	3 COMS 4103	3	COMS 4403	3 Social Sciences ^{1,T}	3
COMS 4700	0 MATH 4003	3	Science Sequence I ^{2,T}	4 MATH 3153	3
U.S. History/Government ^{1,T}	3 Science Sequence I ^{2,T}	4		Fine Arts & Humanities ^{1,T}	3
Elective (Math or Science)	2				
Total Hours	14 Total Hours	16 Total Hours	13 Total Hours	14	

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²May be satisfied by any 1-year science sequence that requires a lab in each course, excluding biological science courses.

³This management elective is to be selected from [COMS 4053](#), [COMS 4063](#), or MGMT course approved jointly by the Department of Management and Marketing and the Department of Computer and Information Science.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Information Systems

Degree Completion Plan Beginning in Fall Semester

Freshman			Sophomore		
Fall	Spring		Fall	Spring	
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3	ENGL 2053 ^T	3 BUAD 2053 ^T	3
COMS 1403 ^T	3 COMS 2104 ^T	4	COMS 2203 ^T	3 COMS 2213 ^T	3
COMS 1411 ^T	1 COMS 2003 ^T	3	COMS 2703 ^T	3 COMS 2853 ^T	3
MATH 2243 ^T	3 U.S. History/Government ^{1,T}	3	COMS 2700 ^T	0 ACCT 2013 ^T	3
TECH 1001	1 ECON 2003 ^T	3	ACCT 2003 ^T	3 ECON 2013 ^T	3
Science with Lab ^{1,T}	4		COMS 2903 ^T	3	
Total Hours	15 Total Hours	16 Total Hours	15 Total Hours	15	
Junior			Senior		
Fall	Spring		Fall	Spring	
SPH 2173 ^T	3 MGMT 3003	3	Fine Arts & Humanities ^{1,T}	3 Fine Arts & Humanities ^{1,T}	3
COMS 4203	3 Science with Lab ^{1,T}	4	COMS 4033	3 COMS 4043	3
COMS 3903	3 COMS 4703	3	COMS 4133	3 COMS 4053	3

<u>COMS 3513</u>	3	<u>COMS 4700</u>	0	<u>COMS 4303</u>	3	COMS Elective ²	3
Elective	3	<u>COMS 3503</u>	3	<u>COMS 3053</u>	3		3
		Elective 3000-4000 level	1			<u>MKT 3043</u>	
Total Hours	15	Total Hours	14	Total Hours	15	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>ENGL 1013</u> ¹	3	<u>ENGL 1023</u> ^{1,T}	3	<u>COMS 2003</u> ^T	3	<u>BUAD 2053</u> ^T	3
<u>COMS 2104</u> ^T	4	<u>COMS 2203</u> ^T	3	<u>COMS 2213</u> ^T	3	<u>ACCT 2013</u> ^T	3
<u>COMS 1403</u> ^T	3	<u>COMS 2703</u> ^T	3	<u>COMS 2853</u> ^T	3	<u>COMS 3903</u> ^T	3
<u>COMS 1411</u> ^T	1	<u>COMS 2700</u> ^T	0	<u>ACCT 2003</u> ^T	3	<u>ENGL 2053</u> ^T	3
<u>MATH 2243</u> ^T	3	<u>ECON 2003</u> ^T	3	<u>ECON 2013</u> ^T	3	<u>U.S. History/Government</u> ^{1,T}	3
<u>TECH 1001</u>	1	<u>COMS 2903</u> ^T	3				
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15
Junior				Senior			
Spring		Fall		Spring		Fall	
Elective	3	<u>MGMT 3003</u>	3	<u>COMS 4043</u>	3	<u>COMS 4303</u>	3
<u>SPH 2173</u> ^T	3	<u>COMS 4033</u>	3	Science with Lab ^{1,T}	4	<u>COMS 3053</u>	3
<u>COMS 3503</u>	3	Science with Lab ^{1,T}	4	<u>MKT 3043</u>	3	COMS Elective ²	3
<u>COMS 4203</u>	3	<u>COMS 4133</u>	3	Elective 3000-4000 level 1	1	<u>COMS 4053</u>	3
<u>COMS 4703</u>	3	<u>COMS 3513</u>	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>COMS 4700</u>	0						
Total Hours	15	Total Hours	16	Total Hours	14	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²1000-level courses may not be used to satisfy this requirement.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Information Technology

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>COMS 1403</u> ^T	3	<u>COMS 1333</u> ^T	3	<u>COMS 2203</u> ^T	3	<u>COMS 2003</u> ^T	3
<u>COMS 1411</u> ^T	1	<u>COMS 2104</u> ^T	4	<u>COMS 2333</u> ^T	3	<u>COMS 2713</u> ^T	3
<u>MATH 2243</u> ^T	3	<u>U.S. History/Government</u> ^{1,T}	3	<u>COMS 2703</u> ^T	3	<u>COMS 2733</u> ^T	3
<u>TECH 1001</u>	1	<u>ECON 2003</u> ^T	3	<u>COMS 2700</u> ^T	0	<u>BUAD 2053</u> ^T	3
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>ENGL 2053</u> ^T	3	Elective (2000-4000 level) ^T	3
Science with Lab ^{1,T}	4			<u>COMS 2903</u> ^T	3		
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>COMS 3903</u>	3	COMS (3000-4000) ² Elective	3	COMS (3000-4000) ² Elective	3	<u>COMS 3053</u>	3
<u>COMS 4203</u>	3	<u>COMS 3523</u>	3	<u>COMS 4033</u>	3	<u>COMS 4043</u>	3
<u>COMS 4313</u>	3	<u>COMS 4703</u>	3	<u>COMS 4213</u>	3	<u>COMS 4063</u>	3
<u>SPH 2173</u> ^T	3	<u>COMS 4700</u>	0	<u>COMS 4713</u>	3	Elective (3000-4000 level)	3

<u>Fine Arts & Humanities</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>COMS 4710</u>	0	<u>Fine Arts & Humanities</u> ^{1,T}	3
		Elective (3000-4000 level)	1	<u>Social Sciences</u> ^{1,T}	3		
Total Hours	15	Total Hours	14	Total Hours	15	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring				Spring			
<u>COMS 1403</u> ^T	3	<u>COMS 2003</u> ^T	3	<u>COMS 1333</u> ^T	3	<u>COMS 2333</u> ^T	3
<u>COMS 1411</u> ^T	1	<u>COMS 2104</u> ^T	4	<u>COMS 2203</u> ^T	3	<u>COMS 2903</u> ^T	3
<u>MATH 2243</u> ^T	3	<u>COMS 2703</u> ^T	3	<u>COMS 2713</u> ^T	3	<u>ENGL 2053</u> ^T	3
<u>TECH 1001</u>	1	<u>COMS 2700</u> ^T	0	<u>COMS 2733</u> ^T	3	<u>BUAD 2053</u> ^T	3
Science with Lab ^{1,T}	4	<u>U.S. History/Government</u> ^{1,T}	3	<u>SPH 2173</u> ^T	3	Science with Lab ^{1,T}	4
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3				
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	16
Junior				Senior			
Spring				Spring			
<u>COMS 3523</u>	3	<u>COMS 3903</u>	3	COMS (3000-4000) ² Elective	3	COMS (3000-4000) ² Elective	3
<u>COMS 4063</u>	3	<u>COMS 4033</u>	3	<u>COMS 3053</u>	3	<u>COMS 4213</u>	3
<u>COMS 4703</u>	3	<u>COMS 4203</u>	3	<u>COMS 4043</u>	3	<u>COMS 4313</u>	3
<u>COMS 4700</u>	0	<u>COMS 4713</u>	3	Elective (3000-4000)	1	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>ECON 2003</u> ^T	3	<u>COMS 4710</u>	0	<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective (3000-4000 level)	3
Elective (2000-4000 level) ^T	3	<u>Social Sciences</u> ^{1,T}	3				
Total Hours	15	Total Hours	15	Total Hours	13	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²One COMS elective must be in the area of networking.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Associate of Applied Science in Information Technology

The Associate of Applied Science in Information Technology program enables students to develop skills in the areas of web processing, databases, networking, programming, and various operating systems. These skills enable students to seek positions within the information technology industry.

Curriculum in Information Technology Associate of Applied Science Degree

Suggested Sequence of Courses

Freshman				Sophomore			
Fall				Spring			
<u>COMS 1403</u> ^T	3	<u>COMS 1333</u> ^T	3	<u>COMS 2203</u> ^T	3	<u>SPH 2173</u> ^T	3
<u>COMS 1411</u> ^T	1	<u>COMS 2104</u> ^T	4	<u>COMS 2703</u> ^T	3	COMS Elective ^{3,T}	9
<u>COMS 2003</u> ^T	3	<u>COMS 2233</u> ^T	3	<u>COMS 2700</u> ^T	0		
<u>MATH 1113</u> ^{2,T}	3	<u>ENGL 1023</u> ^{1,T}	3	COMS Elective ^{3,T}	3		
<u>ENGL 1013</u> ^{1,T}	3	Elective	2	<u>PHSC 1013</u> ^T	3		
<u>Social Sciences</u> ^{1,T}	3			<u>PHSC 1021</u> ^T	1		
<u>TECH 1001</u>	1			<u>ENGL 2053</u> ^T	3		
Total Hours	17	Total Hours	15	Total Hours	16	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²The mathematics requirement may be fulfilled by taking [MATH 1113](#) or any higher level mathematics course.

³1000-level courses may not be used to satisfy this requirement.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Department of Electrical Engineering

The Department of Electrical Engineering offers a four-year degree program leading to the degree Bachelor of Science in Electrical Engineering (BSEE). This program is accredited by the Engineering Accreditation Commission (EAC) of ABET, Inc., the national accrediting board for engineering and technology. The degree program includes both traditional electrical engineering as well as a computer engineering option.

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The mission of the Department of Electrical Engineering at Arkansas Tech University is to maintain an accredited program leading to the Bachelor of Science degree. The Department is committed to providing its students with a positive atmosphere in which to learn the fundamentals of engineering practice including engineering science and design. In order to fulfill its mission, the Department has established the following educational objectives.

Engineers who graduate from Arkansas Tech University with a BSEE degree will be:

1. Intellectuals - with a commitment to ethics, social and environmental responsibility, and lifelong learning.
2. Team Players - communicating, planning, coordinating, and managing projects and personnel with efficiency and effectiveness.
3. Problem solvers - learning new concepts, techniques, skills, and tools to aid in analyzing and designing electrical engineering systems.
4. Professionals - trained and competent in the fundamentals of engineering science, applied mathematics, laboratory practice, and principles of electrical and computer engineering.

The first two years of curriculum contain the needed science, mathematics, engineering, and computer science basics to prepare the student for the upper level courses. The junior and senior years of the traditional electrical engineering path include 12 hours of electives which allow students to concentrate their studies in an area of specialization such as electric power, controls and robotics, or communications.

The following curriculum represents the program of study and a suggested sequence for the Bachelor of Science in Electrical Engineering degree. The student should be aware that not all courses are offered each semester and that the ordering of courses is subject to change. In order to minimize scheduling difficulties, each student should schedule a special session with their advisor at the beginning of their junior year to plan the remaining coursework.

Bachelor of Science in Electrical Engineering (BSEE)

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ELEG 1012 ^T	2	ELEG 2103	3
CHEM 2124 ^T	4	ELEG 2113	3
ENGL 1013 ^{1,T}	3	ELEG 2111	1
MATH 2914 ^T	4	MCEG 2023	3
		Fine Arts & Humanities ^{1,T}	3
		MATH 2924 ^T	4
		MATH 3243	3
		PHYS 2114 ^T	4
		PHYS 2124 ^T	4
Total Hours	13	Total Hours	16
		Total Hours	15
Junior		Senior	
Fall	Spring	Fall	Spring
ELEG 3103	3	ELEG 4202	2
Engineering Elective ²	3	Technical Elective ³	3
ELEG 3143	3	ELEG 4193	3
ELEG 3003	3	ELEG 4113	3
MCEG 2013	3	U.S. History/Government ^{1,T}	3
ELEG 3153	3	Fine Arts & Humanities ^{1,T}	3
		ELEG 4122	2
		ELEG 4303	3
		Engineering Elective ²	3
		Social Sciences ^{1,T}	3
Total Hours	15	Total Hours	16
Total Hours	15	Total Hours	15

Spring		Fall		Spring		Fall	
<u>ELEG 1012</u>	2	<u>ELEG 2134</u>	4	<u>ELEG 2103</u>	3	<u>CHEM 2124</u> ^T	4
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>ELEG 2130</u>	0	<u>COMS 2203</u> ^T	3	<u>ELEG 2111</u>	1
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>ELEG 3133</u>	3	<u>ELEG 2113</u>	3
<u>MATH 2914</u> ^T	4	<u>MATH 2924</u> ^T	4	<u>MATH 3243</u>	3	<u>MATH 2934</u> ^T	4
<u>Social Sciences</u> ^{1,T}	3	<u>COMS 2104</u> ^T	4	<u>PHYS 2114</u> ^T	4	<u>PHYS 2124</u> ^T	4
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	16
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>COMS 2223</u> ^T	3	<u>ELEG 3103</u>	3	<u>ELEG 4202</u>	2	<u>ELEG 4113</u>	3
<u>ELEG 3143</u>	3	<u>Fine Arts & Humanities</u> ¹	3	<u>COMS 3703</u>	3	<u>ELEG 4303</u>	3
<u>ELEG 3123</u>	3	<u>ELEG 3003</u>	3	<u>U.S. History/Government</u> ^{1,T}	3	<u>ELEG 4122</u>	2
<u>COMS 2903</u> ^T	3	<u>COMS 2213</u> ^T	3	<u>ELEG 4103</u>	3	<u>ELEG 4193</u>	3
<u>MATH 3173/ELEG 3173</u>	3	<u>ELEG 4143</u>	3	Engineering Elective ²	3	<u>ELEG 4133</u>	3
Total Hours	15	Total Hours	15	Total Hours	14	Total Hours	14

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Engineering Elective must be a 3000 or 4000 level Electrical Engineering course.

³Technical Elective must be a course from Engineering, MGMT 4203, Math or the Sciences (excluding courses intended for Education Majors). All electives must have approval of the Department.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Department of Emergency Management

The bachelor of science degree in Emergency Management (EAM) was established in 1997. Arkansas Tech University was one of the first institutions to offer a baccalaureate degree in this specialized and rapidly growing academic discipline. In 2006, the program became the first degree program to receive accreditation on a national as well as international level from the Foundation of Higher Education Accreditation in Emergency Management. In view of the interest in this degree from a wide geographic area including foreign countries, the degree is also available online as an electronic degree that was approved by the Higher Learning Commission in 2005. The program offers a master of science degree in Emergency Management and Homeland Security for students seeking an advanced degree in the discipline.

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The Department of Emergency Management at Arkansas Tech University is dedicated to:

1. Increasing learning and knowledge by providing outstanding teaching, scholarship, and service for the university and community.
2. Sustaining a department that supports faculty and students in their professional and intellectual growth.
3. Educating students to become leaders in the emergency management discipline and to make a positive contribution to the field.

Interest in emergency management and its importance from the global perspective have increased following recent events related to natural and technological hazards, terrorism, and other Homeland Security issues. The degree supports advancement opportunities for career professionals in a broad range of discipline areas as well as appealing to students seeking careers in emergency management in both the private and public sectors.

The curriculum in the EAM degree is based on the following core competencies for emergency managers:

Management skills
Communication skills
Leadership and decision making skills
Technical skills
Political, bureaucratic and social contexts
Comprehensive emergency management contexts
Legal and ethical contexts
Practical applications

The curriculum requires all students to complete 30 hours of EAM core courses which include 12 hours of credit for externship/internship experiences. This focus of the program is designed to build a solid foundation in emergency management concepts, competencies, and demonstrated applications. Additionally, students are required to complete 15 hours in an administrative core and 21 hours in an interdisciplinary core, which can include courses in both the natural and social sciences. Students have the option of addressing the interdisciplinary core by completing a minor in an area approved by the advisor as long as the total coursework equals 21 hours.

Curriculum in Emergency Management

Degree Completion Plan Beginning in Fall Semester				
Freshman			Sophomore	
Fall		Spring	Fall	Spring
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Social Sciences ^{1,T} 3
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,T}	3	Fine Arts & Humanities ^{1,T} 3
Interdisciplinary Core ^{2,T}	3	Science with Lab ^{1,T}	4	Administrative ³ 3
Mathematics ^{1,T}	3	EAM 1013	3	EAM 4033 3
EAM 1003	3	Interdisciplinary Core ^{2,T}	3	Interdisciplinary Core ^{2,T} 3
TECH 1001	1			
Total Hours	16	Total Hours	16	Total Hours 15
Junior			Senior	
Fall		Spring	Fall	Spring

EAM Core ⁴	6	EAM 3206	6	EAM Core ⁴	6	EAM 4106	6
Administrative ^{3,T}	3	EAM Core ⁴	3	Administrative ^{3,T}	3	Elective ^T	3
Interdisciplinary Core ^{2,T}	3	Interdisciplinary Core ^{2,T}	3	Interdisciplinary Core ^{2,T}	6		
Elective ^T	3	Administrative ^{3,T}	3				
		EAM 4023	3				
Total Hours	15	Total Hours	18	Total Hours	15	Total Hours	9

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,T}	3
Interdisciplinary Core ^{2,T}	3	Science with Lab ^{1,T}	4
Mathematics ^{1,T}	3	EAM 1013	3
EAM 1003	3	Interdisciplinary Core ^{2,T}	3
TECH 1001	1	Science with Lab ^{1,T}	4
Total Hours	16	Total Hours	16
Junior		Senior	
Spring	Fall	Spring	Fall
EAM Core ⁴	3	EAM Core ⁴	9
EAM 4023	3	EAM 3206	3
Interdisciplinary Core ^{2,T}	3	Administrative ^{3,T}	3
Administrative ^{3,T}	3	Interdisciplinary Core ^{2,T}	3
Elective ^T	3	Administrative ^{3,T}	3
Total Hours	15	Total Hours	18
		Total Hours	15
			9

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Appropriate alternatives in "[Interdisciplinary Core](#)".

³See appropriate alternatives in "[Required Administrative Core](#)".

⁴See appropriate substitutions in "[EAM Core](#)".

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

EAM Core (30 hours)

The student will select with the advisor's recommendation 30 hours of credit from the EAM Core courses. [EAM 1003](#), [EAM 1013](#), [EAM 4023](#) and [EAM 4033](#) are required classes for all students. In addition, all students must take 12 hours ([EAM 3206](#) and [EAM 4106](#)) from the Practical Applications in addition to the 30 hours. Courses used in other categories, i.e. EAM Core, Administrative, or Interdisciplinary may not be counted in another category.

- [EAM 1003](#) Living in a Hazardous Environment
- [EAM 1013](#) Aim and Scope of Emergency Management
- [EAM 2033](#) Citizen/Family/Community Disaster Preparedness Education
- [EAM 3003](#) Developing Emergency Management Skills
- [EAM 3013](#) Public Policy Issues in Emergency Management
- [EAM 3023](#) Principles and Practice of Disaster Planning and Response Operations
- [EAM 3033](#) The Social Dimensions of Disaster
- [EAM 3123](#) Public Information Skills for Emergency Managers
- [EAM 3143](#) The Economics of Hazards and Disaster
- [EAM 3243](#) Introduction to Terrorism
- [EAM 4003](#) Principles and Practice of Disaster Relief and Recovery
- [EAM 4013](#) Business and Industry Crisis Management
- [EAM 4023](#) Information Technology and Emergency Management
- [EAM 4033](#) Emergency Management Research Methods/Analysis
- [EAM 4043](#) Disaster and Emergency Management Ethics

[EAM 4053](#) Community Management of Hazardous Materials
[EAM 4991-3](#) Special Problems and Topics

Practical Applications (12 hours)

[EAM 3206](#) Externship
[EAM 4106](#) Practicum/Internship

Administrative Core¹ (15 hours)

The student will take [ENGL 2053](#) Technical Writing^T and select with the advisor's recommendation 12 hours of credit from the following courses which are currently offered within each departmental area.

[BLAW 2033](#) Legal Environment of Business^T
[BUAD 2003](#) Business Information Systems or
[COMS 1003](#) Introduction to Computer Based Systems^T
[BUAD 2053](#) Business Statistics or
[SOC 2053](#) Statistics for the Behavioral Sciences or
[MATH 2163](#) Introduction to Statistical Methods^T
[COMS 1333](#) Web Publishing I
[COMS 1403](#) Orientation to Computing, Information, and Technology
[COMS 2003](#) Microcomputer Applications
[HA 4113/RP 4113](#) Personnel Management in Parks, Recreation, and Hospitality Administration
[JOUR 2133](#) Introduction to Mass Communication
[JOUR 4033](#) Community Journalism
[JOUR 4083](#) Computer Mediated Communication
[JOUR 4123](#) Laws of Communication
[PS 3023](#) Professional Communications
[PS 3133](#) Applied Principles of Personnel Management
[SPH 1003](#) Introduction to Speech-Communication^T
[SPH 2003](#) Public Speaking
[SPH 2173](#) Business and Professional Speaking
[SPH 3003](#) Interpersonal Communication
[SPH 3013](#) Intercultural Communication
[SPH 3033](#) Interviewing Principles and Practices
[SPH 3073](#) Group Communication
[SPH 4063](#) Organizational Communication
[SPH 4153](#) Persuasive Theory and Audience Analysis

¹Students must address any prerequisites for these courses

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Interdisciplinary Core^{1,2} (21 hours)

The student will select with the advisor's recommendation 21 hours of credit from the following courses which are currently offered within each departmental area.

[ANTH 2003](#) Cultural Anthropology^T
[BIOL 1004](#) Principles of Environmental Science
[BIOL 3043](#) Conservation
[BIOL 3054](#) Microbiology
[BIOL 3114](#) Principles of Ecology
[BIOL 4023](#) Immunology
[BIOL 4094](#) Coastal Ecology
[CHEM 2204](#) Organic Physiological Chemistry
[CHEM 3313](#) Environmental Chemistry
[CHEM 3245](#) Quantitative Analysis
[CHEM 3254](#) Fundamentals of Organic Chemistry
[CHEM 3264](#) Mechanistic Organic Chemistry
[CHEM 3324](#) Physical Chemistry I
[CHEM 3334](#) Physical Chemistry II
[CHEM 3344](#) Principles of Biochemistry
[CHEM 3353](#) Fundamentals of Toxicology
[CHEM 4422](#) Advanced Organic Chemistry
[COMS 2703](#) Computer Networks and Architecture

[COMS 2733](#) Introduction to Computer Forensics and Security
[COMS 4703](#) Data Communications and Networks
[COMS 4713](#) Heterogeneous Networks
[CJ 2003](#) Introduction to Criminal Justice^T
[CJ 3023 / POLS 3023](#) Judicial Process
[CJ 4023](#) Law and the Legal System
[GEOG 2013](#) Regional Geography of the World
[GEOG 2023](#) Human Geography
[GEOG 2833](#) Introduction to Geographic Information Systems
[GEOG 3033](#) Physical Geography
[GEOG 4023](#) Economic Geography
[GEOL 1014](#) Physical Geology
[GEOL 3044](#) Geomorphology
[GEOL 3083](#) Hydrogeology
[GEOL 3153](#) Environmental Geology
[HA 1013](#) Sanitation and Safety
[HLED 3203](#) Consumer Health Programs
[JOUR 2143](#) News Writing
[JOUR 3173](#) Public Relations Principles
[JOUR 3273](#) Public Relations Writing
[MATH 2243](#) Calculus for Business and Economics
[MATH 3153](#) Applied Statistics I
[MATH 4123](#) Mathematical Modeling
[MATH 4173](#) Advanced Biostatistics
[PE 2513](#) First Aid^T
[PHSC 3033](#) Meteorology
[PHYS 3213](#) Modern Physics
[POLS 2013](#) Introduction to Political Science^T
[POLS 2403](#) Comparative Government
[POLS 2413](#) International Relations
[POLS 3033](#) American State and Local Government
[POLS 3053](#) Introduction to Public Administration
[POLS 3093](#) American Municipal Government
[POLS 3473](#) National Security Policy
[POLS 4103](#) Environmental Politics
[PSY 2003](#) General Psychology^T
[PSY 2033](#) Psychology of Adjustment
[PSY 3013/SOC 3013](#) Psychosocial Aspects of Death and Dying
[PSY 3063](#) Developmental Psychology I
[PSY 3093](#) Industrial Psychology
[PSY 3163](#) Developmental Psychology II
[RP 1993](#) Basic Forest Fighting
[RP 3053](#) Natural Resource Management and Planning
[RP 3993](#) Wildland Fire Practices in Natural Resource Management
[RP 4053](#) Water Resources Development
[SOC 1003](#) Introductory Sociology^T
[SOC 2033/CJ 2033](#) Social Problems^T
[SOC 3063](#) Communities
[SOC 3083/CJ 3083](#) Social Deviance
[SOC 4003](#) Minority Relations

¹Students must address any prerequisites for these courses

²Students can complete the Interdisciplinary Core by minoring in one of the following subjects. If the minor doesn't total 21 hours, they can take an additional course from the above list.

Anthropology, Biology, Chemistry, Criminal Justice, Engineering Physics, Geography, Geology, History, Hospitality Administration, Journalism, Physical Science, Political Science, Psychology, Recreation and Park Administration, Sociology, Speech.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Minor Emergency Management

The minor in Emergency Management is designed to provide additional breadth for students majoring in related programs in the field of crisis and disaster management. The minor will require 18 hours of coursework emphasizing content in areas of human and physical consequences of natural and technological disasters along with mitigation procedures.

Students may wish to minor in Emergency Management from disciplines listed in the Interdisciplinary Core such as Biology, Chemistry, Computer and Information Science, Criminal Justice, and Journalism.

*[EAM 1003](#) Living in a Hazardous Environment

*[EAM 1013](#) Aim and Scope of Emergency Management

Twelve hours of upper division EAM Core Classes

*Required for the Bachelor's degree in EAM

Department of Mechanical Engineering

The Department of Mechanical Engineering offers a four-year degree program leading to the Bachelor of Science in Mechanical Engineering (BSME) and a two-year degree program in Nuclear Technology. The program leading to the Bachelor of Science in Mechanical Engineering (BSME) degree is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET).

The mission of the Department of Mechanical Engineering at Arkansas Tech University is to develop and maintain accredited programs leading to the Bachelor of Science degree. The department is committed to providing its students with a positive atmosphere in which to learn the fundamentals of engineering practice including engineering science and design. In order to meet its mission, the department has established educational objectives for its program.

The educational objectives of the engineering program of the Department of Mechanical Engineering at Arkansas Tech University are:

1. To produce graduates who use the engineering skills and technical ability gained through the program to embark upon successful careers in mechanical engineering.
2. To produce graduates who engage in life-long learning.
3. To produce graduates who employ engineering analysis, experimental methods, and design techniques to solve engineering problems.
4. To produce graduates who demonstrate skills pertinent to the design process including the ability to formulate problems, to think creatively, to communicate effectively, to synthesize information and to work collaboratively.
5. To produce graduates who understand their professional and ethical responsibilities.

Mechanical Engineering

Mechanical engineering is the profession which designs, develops, and manufactures machines that produce, transmit, or use power. Mechanical engineers are involved in the design, development, and production of virtually every product one can imagine. The range of job possibilities for mechanical engineers, both in location and function, is limitless. The mechanical engineering program at Arkansas Tech is designed to give its students a solid grounding in the machine design and thermal systems areas and to help satisfy the engineering manpower needs of industry in Arkansas and the mid-south region. The required courses provide a basic foundation in mechanical engineering with a strong cross-disciplinary component and an emphasis on engineering design.

Most graduates of the engineering program go directly into the work force as practicing engineers. Many are employed by manufacturing companies in the Arkansas River Valley area, while others have obtained positions with large national and multinational corporations. A number of graduates have elected to attend one of many different graduate schools specializing in disciplines such as engineering (electrical, mechanical, industrial, or nuclear), mathematics, physics, or business.

The first two years of the curriculum contain the needed mathematics, science, and engineering science basics to prepare the student for the upper-level mechanical engineering courses. The junior and senior years include 12 hours of engineering electives which allows the student to concentrate in one of the available areas of specialization which include machine design, nuclear systems, or thermal systems.

Transfer of Credit

Students wishing to transfer into one of the programs offered by the Department of Mechanical Engineering are urged to contact the Department Head as soon as possible to reduce the possibility of taking non-transferable courses. Course work taken at another institution must meet the requirements of the Arkansas Tech University transfer policies and, in addition, are subject to the department's current transfer policy. Contact the Department of Mechanical Engineering for the latest course transfer information and policy.

Students planning to transfer to another university can, in most cases, complete the first two years of work at Arkansas Tech University. Students who plan to transfer should consult with the school to which they plan to transfer to coordinate details.

The following curriculum represents the program of study and a suggested sequence for the Bachelor of Science in Mechanical Engineering degree. The student should be aware that not all courses are offered each semester and that the ordering of courses is subject to change. In order to minimize scheduling difficulties, each student should schedule a special session with their advisor at the beginning of their junior year to plan the remaining coursework.

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Professors:

Helmer, Krohn

Associate Professors:

Fithen, Frasier

Assistant Professor:

Steuber, M. Smith

Instructor:

Apple

Bachelor of Science in Mechanical Engineering (BSME)

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>MATH 2934</u> ^T	4 <u>MATH 3243</u>
<u>MCEG 1012</u> ^{1,T}	2 <u>MCEG 1002</u> ^T	2 <u>CHEM 2134</u> or <u>PHYS 2124</u> ^T	4 <u>Fine Arts & Humanities</u> ^{1,T}
<u>Social Sciences</u> ^{1,T}	3 <u>PHYS 2114</u> ^T	4 <u>MCEG 2013</u>	3 <u>MCEG 2033</u>
<u>CHEM 2124</u> ^T	4 <u>MCEG 2203</u>	3 <u>MCEG 2023</u>	3 <u>MCEG 3013</u>
<u>MATH 2914</u> ^T	4 <u>MATH 2924</u> ^T	4	<u>ELEG 2103</u>
Total Hours	16 Total Hours	16 Total Hours	14 Total Hours
Junior		Senior	
Fall	Spring	Fall	Spring
ENGR Electives ³	3 Mathematics ⁵	3 <u>MCEG 4202/ELEG 4202</u>	2 <u>ELEG 4303</u>
<u>MCEG 3313</u>	3 <u>MCEG 4403</u>	3 <u>MCEG 4433</u>	3 <u>MCEG 4443</u>
<u>MCEG 3413</u>	3 <u>MCEG 4423</u>	3 <u>U.S. History/Government</u> ^{1,T}	3 <u>MCEG 4442</u>
<u>MCEG 3442</u>	2 <u>Fine Arts & Humanities</u> ^{1,T}	3 Technical Elective ⁴	3 ENGR Electives ³
<u>ELEG 2113</u>	3 ENGR Electives ³	3 <u>MCEG 3003/ELEG 3003</u>	ENGR Lab Elective ²
Total Hours	14 Total Hours	15 Total Hours	14 Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>MATH 2934</u> ^T	4 <u>MATH 3243</u>
<u>MCEG 1012</u> ^{1,T}	2 <u>MCEG 1002</u> ^T	2 <u>MCEG 2013</u>	3 <u>ELEG 2103</u>
<u>Social Sciences</u> ^{1,T}	3 <u>PHYS 2114</u> ^T	4 <u>MCEG 2023</u>	3 <u>MCEG 3013</u>
<u>CHEM 2124</u> ^T	4 <u>MCEG 2203</u>	3 <u>CHEM 2134</u> or <u>PHYS 2124</u> ^T	4 <u>MCEG 2033</u>
<u>MATH 2914</u> ^T	4 <u>MATH 2924</u> ^T	4	<u>U.S. History/Government</u> ^{1,T}
Total Hours	16 Total Hours	16 Total Hours	14 Total Hours
Junior		Senior	
Spring	Fall	Spring	Fall
<u>ELEG 2113</u>	3 <u>MCEG 3003/ELEG 3003</u>	3 <u>MCEG 4202/ELEG 4202</u>	2 <u>ELEG 4303</u>
<u>MCEG 3313</u>	3 <u>MCEG 4423</u>	3 <u>Fine Arts & Humanities</u> ^{1,T}	3 <u>MCEG 4433</u>
<u>MCEG 3413</u>	3 <u>MCEG 4403</u>	3 <u>MCEG 4443</u>	3 <u>Fine Arts & Humanities</u> ^{1,T}
Mathematics ^{5,T}	3 <u>MCEG 3442</u>	2 <u>MCEG 4442</u>	2 ENGR Electives ³
ENGR Electives ³	3 Technical Elective ⁴	3 ENGR Electives ³	3 <u>MCEG 4493</u>
Total Hours	15 Total Hours	14 Total Hours	15 Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²3000-level or above ELEG or MCEG laboratory class.

³3000-level or above ELEG or MCEG course with minimum of three (3) hours at the 4000-level and approval of advisor.

⁴Technical elective course to be chosen with approval of advisor from list of eligible courses maintained in the departmental office.

⁵Mathematics elective course to be chosen with approval of advisor from list of eligible courses maintained in the departmental office.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Nuclear Technology

The department also offers a two-year program leading to the Associate of Science in Nuclear Technology (ASNT) degree. This degree is designed to allow the student to obtain the knowledge base and training necessary to work in one of the many areas in the nuclear field. While many technology degrees, especially at the associate's level, are seen as less rigorous paths, the ASNT program at Arkansas Tech University includes most of the same courses as the first two years of the engineering programs.

Graduates of the program leading to the Associate of Science Degree in Nuclear Technology may find employment in many areas of the nuclear industry. Many past ASNT graduates have continued their studies to obtain bachelors degrees in engineering or the physical sciences either at Arkansas Tech University or at other institutions.

Associate of Science in Nuclear Technology (ASNT)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u>	3	<u>ENGL 1023</u>	3
<u>MCEG 1012</u>	2	<u>PHYS 2114</u>	4
<u>Social Sciences</u> ¹	3	<u>MATH 2924</u>	4
<u>CHEM 2124</u>	4	<u>MCEG 2023</u>	3
<u>MATH 2914</u>	4	<u>MCEG 2013</u>	3
		<u>MCEG 3503</u>	3
		<u>U.S. History/Government</u> ¹	3
			Elective
Total Hours	16	Total Hours	14
		Total Hours	15
		Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

Department of Parks, Recreation and Hospitality Administration

The Department of Parks, Recreation and Hospitality Administration offers a Bachelor of Science in *Recreation and Park Administration and Hospitality Administration*, an Associate of Applied Science in *Culinary Management* and minors in *Recreation and Park Administration and Hospitality Administration*.

The *Recreation and Park Administration* major provides specialized education that prepares students for supervisory and administrative positions in federal, state, and local recreation and park agencies as well as commercial recreation and tourism organizations. This program is accredited by the Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT), sponsored by the National Recreation and Park Association.

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Professor:
T. Herrick
Associate Professor:
McMahan
Assistant Professors:
Bishop, S.S. Lee, Moll,
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Vision

The program will produce leaders in Recreation and Park Administration.

Core Values

The Recreation and Park Administration Program is committed to:

- Lifelong learning
- Service to community
- Personal and professional development
- Diversity of experience
- Environmental stewardship
- Interpersonal communication
- Healthy lifestyles

Mission

The mission of the Recreation and Park Administration Program is to educate Recreation and Park professionals for self, community and society.

Recreation and Park Administration

This program is designed to prepare students for management careers in private and public recreation agencies or park systems. A broad background in the behavioral and natural sciences is required with major emphasis on resource management and the delivery of leisure services to diverse populations. Specialized course work in biological sciences and business management aid in natural resource decision making. This provides a base for professional courses in planning, design, and operation of park and recreation facilities. A career in recreation administration, park administration, therapeutic recreation, turf management or interpretation requires a basic understanding of human behavior and the challenges of contemporary society. Due to the multidisciplinary nature of the career field, a student is required to choose courses from several related fields, based on professional interest. A comprehensive general education is complemented with a core of professional courses. The Bachelor of Science in Recreation and Park Administration offers five emphases of professional preparation:

Recreation Administration Emphasis prepares students to work in community and agency settings and commercial recreation businesses. Programming and people management are major areas of expertise.

Recreation Administration Emphasis

Suggested Sequence of Courses							
Freshman		Spring		Sophomore			
Fall			Spring	Fall	Spring		
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Social Sciences ^{1,T}	3	Approved Elective ²	3
Science with Lab ^{1,T}	4	COMS 1003 ^T	3	PSY 2003 ^T	3	SPH 2003 ^T	3
RP 1013	3	Science with Lab ^{1,T}	4	LBMD 2001	1	RP 2033	3
TECH 1001	1	Mathematics ^{1,T}	3	RP 2003	3	RP 2013	3
U.S. History/Government ^{1,T}	3			Approved Elective ²	3	RP 3023	3

Total Hours	14	Total Hours	13	Total Hours	13	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
Fine Arts & Humanities ^{1,T}	3	Fine Arts & Humanities ^{1,T}	3	RP 4001	1	RP 4023	3
RP 3013	3	RP 3043	3	RP 4013	3	RP 4113	3
RP 3034	4	RP 3063	3	RP 4103	3	RP 4093	3
RP 3033	3	RP 3403	3	HA 4013	3	Approved Elective ²	3
Approved Elective ²	3	RP 3503	3	RP 4063	3		
				PE 4103	3		
Total Hours	16	Total Hours	15	Total Hours	16	Total Hours	12
Senior 9th Semester							
Fall							
RP 4116 ³	6						
Total Hours	6						

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Departmental Advisor.

³Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Therapeutic Recreation Emphasis prepares students for a career as a Certified Therapeutic Recreation Specialist (CTRS) working with special populations in clinical and community recreation environments. The specialized TR emphasis prepares students for national certification under guidelines established by the National Council for Therapeutic Recreation Certification.

Therapeutic Recreation Emphasis

Suggested Sequence of Courses							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	PSY 2003 ^T	3	PSY 3813	3
TECH 1001	1	COMS 1003 ^T	3	SPH 2003 ^T	3	Fine Arts & Humanities ^{1,T}	3
U.S. History/Government ^{1,T}	3	Science with Lab ^{1,T}	4	RP 2003	3	LBMD 2001	1
RP 1013	3	Mathematics ^{1,T}	3	RS 2003	3	RP 2033	3
Fine Arts & Humanities ^{1,T}	3			BIOL 2004 ^T	4	Social Sciences ^{1,T}	3
Total Hours	13	Total Hours	13	Total Hours	16	Total Hours	13
Junior				Senior			
Fall		Spring		Fall		Spring	
RP 4173	3	RP 4473	3	RP 4373	3	RP 4023	3
RP 3403	3	RP 3063	3	PE 4103	3	RP 4113	3
RP 3013	3	RP 3043	3	RP 4013	3	RP 4273	3
RP 3033	3	PSY 3003	3	RP 4103	3	RP 4073	3
RP 3034	4	Approved Elective ²	3	AHS 2013 ^T	3		
RP 4001	1						
Total Hours	17	Total Hours	15	Total Hours	15	Total Hours	12
Senior 9th Semester							
Fall							
RP 4116 ³	6						
Total Hours	6						

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See departmental advisor

³Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Natural Resource Emphasis prepares students to manage large parks, resource areas and visitor facilities. Planning and management of land and water resources within private and public park and natural resource management organizations to provide outdoor recreation opportunities for constituents are emphasized.

Natural Resource Emphasis

Suggested Sequence of Courses					
Freshman				Sophomore	
Fall		Spring		Fall	Spring
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	PSY 2003 ^T	3 Approved Elective ² 4
RP 1013	3	COMS 1003 ^T	3	RP 2003	3 RP 2013 3
CHEM 1113 and CHEM 1111 or GEOL 1014 ^T	4	BIOL 2124 or BIOL 2134 ^T	4	RP Major Elective ³	4 RP 2033 3
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,T}	3	LBMD 2001	1 SPH 2003 ^T 3
TECH 1001	1	Mathematics ^{1,T}	3	Fine Arts & Humanities ^{1,T}	3
Total Hours	14	Total Hours	16	Total Hours	14 Total Hours 13
Junior				Senior	
Fall		Spring		Fall	Spring
Fine Arts & Humanities ^{1,T}	3	RP 3043	3	RP 4001	1 RP 4023 3
RP 3033	3	RP 3063	3	RP 4013	3 RP 4113 3
RP 3013	3	RP 3053	3	RP 4063	3 RP Major Elective ³ 4
RP 3034	4	Approved Elective ²	3	RP 4103	3 Approved Elective ² 3
RP 3093	3	RP 3403	3	HA 4013	3
Total Hours	16	Total Hours	15	Total Hours	13 Total Hours 13
Senior 9th Semester					
Fall					
RP 4116 ⁴	6				
Total Hours	6				

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Departmental Advisor or select from the following list:

[BIOL 1014](#), [BIOL 1114](#), [BIOL 2124](#), [BIOL 2134](#), or any 3000 or 4000 level BIOL course
[FW 2003](#), or any 3000 or 4000 level FW course

[GEOL 1014](#) or [GEOL 3153](#) [AGEG 3203](#) or [AGEG 3213](#)

[AGPS 1024](#), [AGPS 1033](#) or [AGPS 3244](#) [AGSS 2014](#)

[GEOG 4833](#)

³Choose from the following RP courses: [RP 1993](#), [RP 3993](#), [RP 4053](#), or [RP 4773](#)

⁴Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Turf Management Emphasis prepares students to meet the expanding market for turfgrass specialists in parks, recreation playfields and golf courses.

Turf Management Emphasis

Suggested Sequence of Courses					
Freshman				Sophomore	
Fall		Spring		Fall	Spring
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Social Sciences ^{1,T}	3 RP 2033 3

<u>RP 1013</u>	3	<u>BIOL 2134</u> ^T	4	<u>PSY 2003</u> ^T	3	<u>AGSS 2014</u>	4
<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4	<u>Mathematics</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>TECH 1001</u>	1	<u>COMS 1003</u> ^T	3	<u>RP 2003</u>	3	<u>RP 2013</u>	3
<u>U.S. History/Government</u> ^{1,T}	3			<u>SPH 2003</u>	3		
Total Hours	14	Total Hours	13	Total Hours	15	Total Hours	13

Junior

Fall

<u>RP 3013</u>	3
<u>RP 3033</u>	3
<u>RP 3034</u>	4
<u>RP 3763</u>	3
<u>RP 4013</u>	3

Spring

<u>RP 3043</u>	3
<u>AGPS 3053</u>	3
<u>RP 3063</u>	3
<u>RP 3793</u>	3
<u>RP 3403</u>	3

Total Hours 16

Senior

Fall

<u>RP 4001</u>	1
<u>RP 4063</u>	3
<u>RP 4103</u>	3
<u>RP 4753</u>	3
<u>RP 4113</u>	3

Spring

<u>RP 4023</u>	3
Electives	4
<u>RP 4763</u>	3
<u>RP 3791</u>	1
<u>AGPS 3244</u>	4

Total Hours 13

Senior 9th Semester

Fall

<u>RP 4116</u> ³	6
Total Hours	6

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Departmental Advisor.

³Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Interpretation Emphasis offers a curriculum that utilizes communication skills and interpretive methods courses to provide training for those wanting to find employment with various interpretive programs of private, state and federal agencies operating cultural and natural history oriented sites. Students are required to minor in Anthropology, Biology, or History.

Interpretation Emphasis

Suggested Sequence of Courses

Freshman		Spring		Sophomore		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>PSY 2003</u> ^T	3	<u>Social Sciences</u> ^{1,T}	3
<u>RP 1013</u>	3	<u>BIOL 1014</u> ^T	4	<u>RP 2003</u>	3	<u>RP 2033</u>	3
<u>GEOL 1014</u> ^T	4	<u>COMS 1003</u> ^T	3	<u>SPH 2003</u> ^T	3	<u>RP 2013</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>Mathematics</u> ^{1,T}	3	Elective ^T	3	<u>LBMD 2001</u>	1
<u>TECH 1001</u>	1					Elective in Minor ³	3
Total Hours	14	Total Hours	13	Total Hours	12	Total Hours	13
Junior		Spring		Senior		Spring	
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>RP 3403</u>	3	<u>RP 4001</u>	1	<u>RP 4023</u>	3
<u>RP 3033</u>	3	<u>RP 3043</u>	3	<u>RP 4013</u>	3	<u>ANTH 4403/MUSM 4403</u>	3
<u>RP 3013</u>	3	<u>RP 3063</u>	3	<u>RP 4103</u>	3	RP Major Elective ⁴	3
<u>RP 3034</u>	4	Elective in Minor ³	7	<u>RP 4113</u>	3	Elective in Minor ³	5
				<u>Fine Arts & Humanities</u> ^{1,T}	3		
<u>RP 3093</u>	3			Elective in Minor ³	3		
Total Hours	16	Total Hours	16	Total Hours	16	Total Hours	14

Senior 9th Semester

Fall

[RP 4116](#)⁵ 6

Total Hours 6

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Departmental Advisor.

³Students must minor in Anthropology, History or Biology. See Departmental Advisor.

⁴Students must select from the following list of RP courses: [RP 1993](#), [RP 3023](#), [RP 3053](#), [RP 3993](#), [RP 4042](#), [RP 4053](#), [RP 4951](#)-4, [4991](#)-3.

⁵Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Recreation and Park Administration

The minor in Recreation and Park Administration is designed for those students majoring in other disciplines who wish to develop specialized knowledge in the area of Recreation and Park Administration. This minor may be of particular interest to those students who wish to work for a recreation and park oriented agency after graduation. This minor may be well-suited for Emergency Management, Fisheries and Wildlife Science, and Hospitality Administration majors. Flexibility in the minor allows students to choose courses to match their particular needs and interests. The minor in Recreation and Park Administration requires 18 hours of courses:

[RP 1013](#) Principles of Recreation and Park Administration

[RP 2003](#) Recreation Programming

RP Electives (12 hours of RP academic courses including 9 hours at the 3000 or 4000 level, excluding [RP 3043](#), [RP 4001](#), and [RP 4116](#))

Hospitality Administration

Mission

The mission of the Hospitality Administration Program is to provide quality education in hospitality administration and provide a foundation for professional growth and development. This is achieved by:

- Providing knowledge, skills and abilities through a comprehensive academic curriculum.
- Demonstrating professionalism, leadership and high ethical standards by a competent faculty and administration.
- Promoting community service and outreach.
- Emphasizing the importance of research and continuing education.
- Encouraging life-long learning.

The Hospitality Administration degree program is designed to prepare students for management positions within the hospitality industry such as lodging, resorts, conference, convention and visitor centers, restaurants, contract services, theme parks and travel and tourism related operations.

The course work concentrates on general business, management, finance, marketing, accounting, law, computer science, and specific courses related to hospitality management. The entire curriculum features numerous opportunities for the practical application of problem-solving skills and creativity. The Hospitality Administration Program is accredited by the Accreditation Commission for Programs in Hospitality Administration.

The *Lodging and Club Management Emphasis* prepares students for management careers in hotels, lodging, resorts, and public and private clubs. This emphasis will analyze competitive strategies, leadership styles, teamwork, and technology in this dynamic and ever-changing hospitality industry.

Curriculum in Lodging and Club Management Emphasis

Suggested Sequence of Courses					
Freshman		Sophomore			
Fall	Spring	Fall	Spring		
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	HA 2003	3
Science with Lab ^{1,T}	4	CHEM 1113 and CHEM 1111 ^T	4	Fine Arts & Humanities ^{1,T}	3
				ACCT 2013 ^T	3

<u>COMS 1003</u> ^T	3	<u>MATH 1113</u> ^T	3	<u>ACCT 2003</u> ^T	3	<u>HA 2043</u>	3
<u>HA 1043</u>	3	<u>HA 1063</u>	3	<u>HA 2063</u>	3	<u>SPH 2173</u> ^T	3
<u>TECH 1001</u>	1	Approved Electives ²	2	<u>ECON 2003</u> ^T	3	<u>PSY 2003</u> ^T	3
Total Hours	14	Total Hours	15	Total Hours	15	Total Hours	15
Junior		Senior		Senior			
Fall		Spring		Fall		Spring	
<u>BUAD 3023</u>	3	<u>HA 4093</u>	3	<u>HA 4113</u>	3	<u>HA 4253</u>	3
<u>HA 3143</u>	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>HA 4073</u>	3	<u>HA 4023</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>MGMT 3003</u>	3	<u>HA 4063</u>	3	<u>HA 4203</u>	3
Approved Electives ²	3	<u>HA 4033</u>	3	<u>HA 4013</u>	3	<u>HA 4001</u>	1
<u>HA 2053</u>	3			<u>HA 4243</u>	3	Approved Electives ²	3
Total Hours	15	Total Hours	12	Total Hours	15	Total Hours	13
Senior 9th Semester							
Fall							
<u>HA 4116</u> ³	6						
Total Hours	6						

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Departmental Advisor.

³Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

The *Tourism and Event Management Emphasis* prepares students for careers in tourism, convention and visitors bureaus and sport and event management. This emphasis will provide a background in commercial recreation, recreational sport and event management in Arkansas' second leading industry and the world's largest industry. Tourism and Event Management is a collection of industries under the larger umbrella of hospitality management.

Curriculum in Tourism and Event Management Emphasis

Suggested Sequence of Courses							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>HA 2003</u>	3	<u>HA 2023</u>	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	<u>HA 2133</u>	4	<u>HA 3133</u>	3
<u>COMS 1003</u> ^T	3	<u>MATH 1113</u> ^T	3	<u>ACCT 2003</u> ^T	3	<u>ACCT 2013</u> ^T	3
<u>HA 1043</u>	3	<u>HA 1063</u>	3	<u>HA 2063</u>	3	<u>SPH 2173</u> ^T	3
<u>TECH 1001</u>	1	Approved Electives ²	2	<u>ECON 2003</u> ^T	3	<u>PSY 2003</u> ^T	3
Total Hours	14	Total Hours	16	Total Hours	15	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>BUAD 3023</u>	3	<u>RP 3503</u>	3	Approved Electives ²	3	<u>HA 4023</u>	3
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>HA 4073</u>	3	<u>HA 4053</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>MGMT 3003</u>	3	<u>HA 4113</u>	3	<u>HA 4203</u>	3
<u>RP 3033</u>	3	<u>HA 4033</u>	3	<u>HA 4013</u>	3	<u>HA 4001</u>	1
<u>HA 2053</u>	3			Approved Elective ²	2	<u>HA 4093</u>	3
Total Hours	15	Total Hours	12	Total Hours	14	Total Hours	13
Senior 9th Semester							
Fall							
<u>HA 4116</u> ³	6						
Total Hours	6						

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Departmental Advisor.

³Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

The *Food and Beverage Management Emphasis* prepares students for management careers in the food and beverage industries as well as managed foodservice. This emphasis will provide the knowledge and skills necessary for a comprehensive management background in this dynamic and ever-changing hospitality industry. Restaurants are the nation's largest private-sector employer.

Curriculum in Food and Beverage Management Emphasis

Suggested Sequence of Courses							
Freshman		Sophomore		Senior			
Fall	Spring	Fall	Spring	Fall	Spring		
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>HA 2003</u>	3	<u>HA 2053</u>	3
Science with Lab ^{1,T}	4	<u>CHEM 1113</u> and <u>CHEM 1111</u> ^T	4	<u>HA 1923</u>	3	<u>HA 2023</u>	3
<u>COMS 1003</u> ^T	3	<u>MATH 1113</u> ^T	3	<u>ACCT 2003</u> ^T	3	<u>ACCT 2013</u> ^T	3
<u>HA 1043</u>	3	<u>HA 1063</u>	3	<u>HA 2063</u>	3	<u>SPH 2173</u> ^T	3
<u>TECH 1001</u>	1	<u>HA 1013</u>	3	<u>ECON 2003</u> ^T	3	<u>PSY 2003</u> ^T	3
Total Hours	14	Total Hours	16	Total Hours	15	Total Hours	15
Junior		Senior		Senior			
Fall	Spring	Fall	Spring	Fall	Spring		
<u>BUAD 3023</u>	3	Approved Electives ^{2,T}	5	<u>HA 4013</u>	3	<u>HA 4033</u>	3
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>HA 4073</u>	3	<u>HA 4113</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>MGMT 3003</u>	3	<u>HA 4063</u>	3	<u>HA 4203</u>	3
<u>HA 2813</u>	3	Approved Electives (3000-4000 level)	3	<u>HA 4983</u>	3	<u>HA 4001</u>	1
<u>HA 2913</u>	3					<u>HA 4023</u>	3
Total Hours	15	Total Hours	14	Total Hours	12	Total Hours	13
Senior 9th Semester							
Fall							
<u>HA 4116</u> ³	6						
Total Hours	6						

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²See Departmental Advisor.

³Internship must be completed in last semester after all coursework has been completed.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Hospitality Administration

The Hospitality Administration minor is designed for students of any major who want to learn about the hospitality profession. The minor in Hospitality Administration consists of 18 hours of coursework:

HA 1043 Introduction to Hospitality Management

HA 2053 Work Experience

HA 4093 Resort Management

HA Elective (3 hours)

HA Elective (6 hours of 3000 or 4000 level)

Associate of Applied Science in Culinary Management

Curriculum in Culinary Management

Suggested Sequence of Courses							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ¹	3	<u>ENGL 1023</u> ¹	3	<u>CUL 2903</u>	3	<u>CUL 2023</u>	3
<u>MATH 1003</u>	3	<u>CHEM 1113</u> and <u>CHEM 1111</u>	4	<u>SPH 2173</u>	3	<u>CUL 2063</u>	3
<u>CUL 1013</u>	3	<u>CUL 2813</u>	3	<u>CUL 2003</u>	3	<u>COMS 1003</u>	3
<u>CUL 1923</u>	3	<u>CUL 2913</u>	3	<u>CUL 2053</u>	3	<u>CUL 2933</u>	3
<u>TECH 1001</u>	1						
Total Hours	13	Total Hours	13	Total Hours	12	Total Hours	12
Summer Between 1st and 2nd year				Summer After 2nd Spring			
<u>CUL 2923</u>	3			<u>CUL 2996</u>	6		
<u>CUL 2943</u>	3						
Total Hours	6			Total Hours	6		

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

College of Arts and Humanities

The College of Arts and Humanities comprises six departments which offer programs of study leading to baccalaureate and associate degrees as listed below:

Dr. H. Micheal Tarver, Dean
Witherspoon Hall, Room 240
(479) 968-0274
mtarver@atu.edu
Fax: (479) 964-0812

Associate of Arts

[General Studies](#)

Associate of Science

[Criminal Justice](#)

Bachelor of Arts

Art with options in:

[Fine Arts](#)
[Graphic Design](#)
[Art Education](#)
[English](#)
[English Education](#)
[Foreign Language](#)
[Foreign Language Education](#)
[History](#)

International Studies with concentrations in:

[Cultural Affairs](#)
[Political Affairs](#)

Journalism with options in:

[Broadcast](#)
[Print](#)
[Public Relations](#)

[Music](#)
[Political Science](#)
[Psychology](#)
[Public History](#)
[Rehabilitation Science](#)
[Social Studies Education](#)
[Sociology](#)

Speech with options in:

[Speech Communications](#)
[Theatre](#)
[Speech Education](#)

Bachelor of Fine Arts

[Creative Writing](#)
[Creative Writing Education](#)

Bachelor of Music Education

Music Education with options in:

[Instrumental Music](#)
[Vocal Music](#)
[Keyboard Vocal Music](#)
[Keyboard Instrumental Music](#)

In addition to the degree programs offered, the College of Arts and Humanities also offers minors in anthropology, art, creative writing, criminal justice, English, French, geography, German, history, Japanese, journalism, Latin American studies, military science, philosophy, political science, psychology, public history, rehabilitation science, religious studies, sociology, Spanish, speech communication, strategic studies, teaching English as a second language, and theatre. The college also supervises pre-professional curriculum in law and is extensively involved in the general education program.

Through these degree and pre-professional curricula, the departments in the College of Arts and Humanities prepare graduates for a variety of challenging and rewarding careers, either directly or via continued graduate or professional studies. These curricula are designed not only to develop theoretical and technical expertise in the fine arts, humanities, and social sciences, but also to nurture the ability to think clearly and express ideas persuasively. Through its general

education commitment and elective offerings, the college's faculty contributes to the broadening of the knowledge and experience of all graduates of Arkansas Tech University by promoting basic competence in communication skills, by fostering an appreciation and understanding of our cultural heritage and current world affairs, and by developing problem-solving techniques.

Transfer Students

Applicability of transfer credit to meet specific degree requirements depends on the major selected by the transfer student. The transfer student should review the Transfer Credit policy in the Admission section of this catalog and meet with their academic advisor to determine final transfer credit eligibility for the selected program of study.

Associate of Arts

General Studies

The associate of arts degree program in general studies is designed primarily for continuing education students who enroll on a part-time basis in the University's evening school. This degree offers students the background, knowledge, and academic preparation necessary to pursue career opportunities not requiring the traditional four-year degree while at the same time providing the foundation for continued study toward a bachelor's degree. To qualify for the associate of arts in general studies, the student must satisfy the associate degree requirements, see "Associate Degrees" and complete the following curriculum:

Curriculum	Hours
General Education courses ¹	36
Electives	24
Total	60

¹See " [General Education Requirements](#)".

International Studies

The International Studies program is interdisciplinary. The Degree Program in International Studies requires 37 hours of General Education coursework, 34 hours of courses that comprise the Common Core, 33 hours in the area of concentration, and sufficient electives to complete 120 hours with a minimum of 40 hours of upper division courses. Students will select either Political Affairs or Cultural Affairs as the area of concentration. Students must follow the established course sequence and prerequisite requirements already defined in the catalog.

International Studies majors are advised by the College Dean (479-968-0274, Witherspoon 240).

International Studies majors must select a foreign language as part of the Common Core and complete 16 hours in the language. Students with previous foreign language experience may petition the Department of English and World Languages for advanced placement and credit. Petitioners will be given written and/or oral examinations by a foreign language faculty member who will then recommend an appropriate foreign language placement level based on university policy. The department head and dean must approve the determined placement level. Students who have omitted one or more courses in the basic language sequence will receive credit for omitted courses when they have validated their advanced placement by passing the course into which they are placed with a grade of "C" or better.

International Studies (Cultural Affairs Concentration)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
FR 1014 , GER 1014 , or SPAN 1014 ^{2,3,T}	4 FR 1024 , GER 1024 , or SPAN 1024 ^{2,3,T}	4 FR 2014 , GER 2014 , or SPAN 2014 ^{2,3,T}	4 FR 2024 , GER 2024 or SPAN 2024 ^{2,3,T}
ENGL 1013 ^{1,5,T}	3 ENGL 1023 ^{1,5,T}	3 PHIL 2013 ^T	3 POLS 2003 ^T
Mathematics ^{1,5,T}	3 Science with Lab ^{1,T}	4 Electives ⁴	6 GEOG 2013
Science with Lab ^{1,T}	4 HIST 1513 ^T	3 POLS 2403 or POLS 2413 ^T	3 POLS 2403 or POLS 2413 ^T
TECH 1001	1		Fine Arts & Humanities ^{1,T}
Total Hours	15 Total Hours	14 Total Hours	16 Total Hours

Junior		Senior		
Fall	Spring	Fall	Spring	
<u>FR 3003</u> , <u>GER 3003</u> or <u>SPAN 3003</u> ³	3 <u>FR 3013</u> , <u>GER 3013</u> or <u>SPAN 3013</u>	3 <u>FR 3113</u> , <u>GER 3113</u> , <u>SPAN 3123</u> or <u>SPAN 3133</u>	3 <u>HIST 3603</u> or <u>HIST 3323</u>	
<u>POLS 3433</u>	3 <u>HIST 4503</u>	3 <u>PHIL 3063/POLS 3063</u>	3 <u>ANTH 2003</u> ^T	
<u>HIST 3703</u> or <u>HIST 3803</u>	3 <u>GEOG 3303</u> or <u>GEOG 3413</u> or <u>GEOG 3703</u>	3 <u>SOC 4073</u>	3 <u>MUS 4853</u> or <u>ENGL 4283</u>	
Electives ⁴	6 Electives ⁴	6 Electives ⁴	6 <u>ENGL 2003</u> ^T	
			Electives ⁴	
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours	14

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students with previous study in a foreign language should refer to Foreign Language Advanced Placement and Credit under Credit by Examination.

³Lab attendance is required for the beginning and intermediate foreign language courses.

⁴At least 40 of the total hours required for graduation must be 3000-4000 level.

⁵Students must complete course with a grade of C or better.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

International Studies (Political Affairs Concentration)

Suggested Sequence of Courses

Freshman		Sophomore		
Fall	Spring	Fall	Spring	
<u>FR 1014</u> , <u>GER 1014</u> , <u>JPN 1014</u> or <u>SPAN 1014</u> ^{2,3,T}	4 <u>FR 1024</u> , <u>GER 1024</u> , <u>JPN 1024</u> or <u>SPAN 1024</u> ^{2,3,T}	4 <u>FR 2014</u> , <u>GER 2014</u> , <u>JPN 2014</u> or <u>SPAN 2014</u> ^{2,3,T}	4 <u>FR 2024</u> , <u>GER 2024</u> , <u>JPN 2024</u> or <u>SPAN 2024</u> ^{2,3,T}	
<u>ENGL 1013</u> ^{1,5,T}	3 <u>ENGL 1023</u> ^{1,5,T}	3 <u>GEOG 2013</u> ^T	3 <u>POLS 2003</u> ^T	
<u>Mathematics</u> ^{1,5,T}	3 Science with Lab ^{1,T}	4 <u>EAM 1013</u>	3 Electives ⁴	
Science with Lab ^{1,T}	4 <u>EAM 1003</u>	3 <u>POLS 2403</u> or <u>POLS 2413</u> ^T	3 <u>POLS 2403</u> or <u>POLS 2413</u> ^T	
<u>TECH 1001</u>	1	3 <u>HIST 1513</u> ^T	3	
Total Hours	15 Total Hours	14 Total Hours	16 Total Hours	16
Junior		Senior		
Fall	Spring	Fall	Spring	
<u>HIST 3083</u>	3 <u>EAM 3243</u>	3 Electives ⁴	3 <u>HIST 3603</u>	
<u>POLS 3433</u>	3 <u>POLS 3013</u> or <u>POLS 3473</u>	3 <u>PHIL 3063/POLS 3063</u>	3 <u>ANTH 2003</u> ^T	
<u>HIST 3703</u> or <u>HIST 3803</u>	3 <u>HIST 4483</u>	3 <u>HIST 4083</u>	3 <u>HIST 3323</u>	
<u>Fine Arts & Humanities</u> ^{1,T}	6 <u>HIST 3513</u>	3 Electives ⁴	5 Electives ⁴	
	Electives ⁴	3		
Total Hours	15 Total Hours	15 Total Hours	14 Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students with previous study in a foreign language should refer to Foreign Language Advanced Placement and Credit under Credit by Examination.

³Lab attendance is required for the beginning and intermediate foreign language courses.

⁴At least 40 of the total hours required for graduation must be 3000-4000 level.

⁵Students must complete course with a grade of C or better.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Department of Art

The Art Department is committed to quality visual arts education consistent with high professional standards. To achieve its mission, the Art Department seeks to provide:

1. A strong core foundation in visual art concepts, skills, processes, technology and other art media.
2. Substantive curriculum content that challenges students to think critically in both creating and responding to art.
3. Historical perspectives necessary for student understanding of the role of art across time, as a form of communication, and in cultural contexts.
4. Opportunities for developing and assessing a portfolio consistent with areas of professional specialization.
5. Leadership in developing and providing access to visual arts programming for the university and community.

Dr. H. Micheal Tarver, Interim Head
 Norman Hall, Room 104
 (479) 968-0244
 mtarver@atu.edu

Professor:
 Mudrinich
Associate Professors:
 Brands, Brunson, Harrington
Assistant Professor:
 Fisher

The department has three major components leading to the baccalaureate degree. The first, Art Education (curriculum also located in Secondary Education), provides a foundation of art skills, methodology, and advanced work through teaching internships necessary for teacher licensure. The second, the Fine Arts area, concentrates on drawing, painting, printmaking, ceramics, and sculpture and other special art interests. Third, the Graphic Design program enables a student to develop the skills and techniques required to engage in the various fields of advertising art. All three curricula lead to the bachelor of arts degree. The department also offers a service course required in the area of general education. In addition, the department offers an art minor which provides an opportunity to investigate a range of content and studio experiences.

All majors will enroll in a foundations core made up of [ART 1303](#), Introduction to Drawing; [ART 1403](#), Two-Dimensional Design; [ART 2403](#), Color Design; [ART 2413](#), Three-Dimensional Design; [ART 2103](#), Art History I; and [ART 2303](#), Figure Drawing. Graphic Design and Art Education students are expected to include [ART 1503](#), Introduction to Graphic design in their foundations core. These courses may be taken independently of one another, and more than one may be taken in a semester. All art majors are required to enroll in twelve hours of art history. All majors participate in an assessment process beginning with the Sophomore Review after students complete 12 hours of core courses to include [ART 1303](#), [ART 1403](#), [ART 2403](#), [ART 2413](#). It is prerequisite to advanced course work in all program areas. The Junior Review is to be completed one year before enrolling in the Senior Project Course (Spring Semester) for Fine Arts and in Graphic Design Exhibition (spring semester) for Graphic Design.

Curriculum in Fine Arts

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ART 1303 ^T	3	ART 2113 ^T	3
ART 1403 ^T	3	ART 2703	3
ENGL 1013 ^{1,T}	3	Science with Lab ^{1,T}	4
Social Sciences ^{1,T}	3	Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3
Mathematics ^{1,T}	3	Fine Arts & Humanities ^{1,T}	3
TECH 1001	1		
Total Hours	16	Total Hours	16
Junior		Senior	
Fall	Spring	Fall	Spring
ART 3603	3	Art History (3000-4000) ³	3
ART 3803	3	Art Elective ²	6
ART 3303	3	Elective ²	9
ART 3403 or ART 3533	3		
Social Sciences ^{1,T}	3		

Total Hours 15 Total Hours 15 Total Hours 15 Total Hours 12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²At least 40 upper level hours are required, electives can include art courses. Art Electives are all upper level hours.

³Art history electives [ART 3113](#), [ART 3123](#), [ART 3133](#), [ART 3143](#), [ART 4103](#), [ART 4113](#), [ART 4123](#), [ART 4723](#). [ART 4823](#) can be used toward this requirement.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Graphic Design

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ART 1303 ^T	3 ART 2403 ^T	3 ART 1503	3 ART 2303 ^T
ART 1403 ^T	3 ART 2413 ^T	3 ART 2113 ^T	3 ART 2213
Mathematics ^{1,T}	3 ART 2103 ^T	3 Science with Lab ^{1,T}	4 U.S. History/Government ^{1,T}
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 Fine Arts & Humanities ^{1,T}	3 Fine Arts & Humanities ^{1,T}
Social Sciences ^{1,T}	3 Science with Lab ^{1,T}	4 Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3 Elective ^{2,T}
TECH 1001	1		
Total Hours	16	Total Hours	16
Junior	Senior	Senior	Senior
Fall	Spring	Fall	Spring
ART 3203	3 ART 3232	2 ART 3803	3 ART 4243
Art History ³ (3000-4000)	3 Art History ³ (3000-4000)	3 ART 3223	3 ART 4623
Social Sciences ^{1,T}	3 Art Elective ⁴	3 ART 3243	3 Elective ²
Elective ²	3 Elective ²	6 Elective ²	6 ART 4231
ART 3253	3		
Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²At least 40 upper level hours are required, general electives can include art courses. Art electives can include art courses. Art electives are all upper level hours.

³Art history electives [ART 3113](#), [ART 3123](#), [ART 3133](#), [ART 3143](#), [ART 4103](#), [ART 4113](#), [ART 4123](#), [ART 4723](#). [ART 4823](#) can be used toward this requirement.

⁴Choose [ART 3303](#), or [ART 4233](#)

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Art for Teacher Licensure

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 ART 2113 ^T	3 ART 2303 ^T
Social Sciences ^{1,T}	3 ART 2103 ^T	3 ART 2413 ^T	3 Art Elective (3000-4000)
Mathematics ^{1,T}	3 Science with Lab ^{1,T}	4 Science with Lab ^{1,T}	4 ART 2123 ^T
ART 1303 ^T	3 ART 1503	3 SEED 2002	2 SPH 2003
ART 1403 ^T	3 ART 2403 ^T	3 Fine Arts & Humanities ^{1,T}	3 U.S. History/Government ^{1,T}

<u>TECH 1001</u>	1				
Total Hours	16	Total Hours	16	Total Hours	15
Junior			Senior		
Fall		Spring	Fall	Spring	
<u>ART 3603</u>	3	<u>ART 4823</u>	3	<u>ART 3013</u>	3
<u>ART 3003</u>	3	Art Elective (3000-4000)	3	<u>ART 3803</u>	3
<u>ART 2703</u>	3	<u>Social Sciences</u> ^{1,T}	3	Art Elective (3000-4000)	3
<u>ART 3403</u> or <u>ART 3533</u>	3	<u>SEED 3552</u>	2	<u>SEED 4503</u>	3
Art History (3000-4000) ²	3	<u>SEED 4052</u>	2	<u>SEED 4809</u>	9
		<u>SEED 3702</u>	2		
Total Hours	15	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Art history electives [ART 3113](#), [ART 3123](#), [ART 3133](#), [ART 3143](#), [ART 4103](#), [ART 4113](#), [ART 4123](#), [ART 4723](#). [ART 4823](#) can be used toward this requirement.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Art

The minor program provides an opportunity to investigate a range of content and studio experiences. Students who wish to take advanced level coursework in any studio area must meet prerequisites. The minor in art requires 18 hours of courses:

[ART 1303](#) Introduction to Drawing
[ART 1403](#) Two Dimensional Design
 ART Electives (9 hours)

AND

3 hours selected from the following:

[ART 2123](#) Experiencing Art
[ART 2103](#) Art History I
[ART 2113](#) Art History II

Department of Behavioral Sciences

The Behavioral Sciences Department includes the allied disciplines of psychology, sociology, anthropology, criminal justice, and rehabilitation science, including minors in each area and an Associate of Arts in criminal justice. The student is offered the opportunity to develop an understanding of human behavior via the distinctive approach of each discipline as well as an integrated view of interpersonal, social, and cultural activities.

The department has several distinctive goals. It gives basic preparation which may lead to advanced study; it provides a career line for work in state and local agencies and programs; it provides practical experience and skills in human services; and it offers electives to support other programs of study in the University.

The student may select a major in psychology, sociology, rehabilitation science, or criminal justice. In addition, the student may select an Associate of Arts in criminal justice or a minor in anthropology, psychology, sociology, rehabilitation science, or criminal justice.

While each area outlines a complete program below, one of the objectives of the department is to maintain maximum flexibility of planning with each student within the context of the broad range of offerings. Each student is encouraged to consult with a departmental advisor at the earliest opportunity to develop a program appropriate to his/her interests and goals.

Psychology

The Psychology curriculum is designed to (1) prepare students for advanced study in psychology; (2) support, through electives, programs of study in other disciplines; (3) give a basis for entry into the job market; (4) arouse the curiosity of all students regarding human behavior; (5) provide opportunities for experiences outside the classroom by way of field programs and practical experiences.

The student majoring in psychology must, in addition to meeting the general education requirements:

Basic Core (12 hours):

1. [PSY 2003](#) General Psychology
2. [PSY 2053](#) Statistics for the Behavioral Sciences
3. [PSY 2063](#) Research Methods for the Behavioral Sciences
4. [PSY 4003](#) Advanced Research Methods for Psychology

Topical Core (12 hours must be chosen from these classes):

1. [PSY 3003](#) Abnormal Psychology
2. [PSY 4073](#) Cognitive Psychology
3. [PSY 3063](#) Developmental Psychology I
4. [PSY 3053](#) Physiological Psychology
5. [PSY 3073](#) Psychology of Learning
6. [PSY 4043](#) Social Psychology

Other:

1. Upper Division Elective, PSY 6 hours
2. [ANTH 2003](#) or [ANTH 1213](#) and [SOC 1003](#)
3. [MATH 1113](#) or higher
4. Minor or Second Major

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Professor:

Harris, Willmering

Associate Professors:

Huss, Martin, Osburn, Ward,
Wilkerson

Assistant Professors:

Bowne, Lockyer, Schluterman,
Ulsperger, Warnick, Williams,
Zeng

Curriculum in Psychology

Degree Completion Plan Beginning in Fall Semester

Freshman			Sophomore		
Fall	Spring		Fall	Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Fine Arts & Humanities ^{1,T}	6 Elective ^{3,T} 6

<u>MATH 1113</u> ^T	3	Science with Lab ^{1,T}	4	<u>PSY 2053</u> ^T	3	Second Field of Study ^{2,T}	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>PSY 2003</u> ^T	3	Science with Lab ^{1,T}	4	<u>PSY 2063</u> ^T	3
Elective ^{3,T}	6	Elective ^{3,T}	6			PSY Topical Core ⁴	3
<u>TECH 1001</u>	1						
Total Hours	16	Total Hours	16	Total Hours	13	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
PSY Topical Core ⁴	6	PSY Topical Core ⁴	3	PSY (3000-4000 level)	6	<u>PSY 4003</u>	3
Second Field of Study ²	3	Second Field of Study ²	6	Elective ³	6	Elective ³	12
<u>SOC 1003</u> ^T	3	Elective ³	3	Second Field of Study ²	3		
Elective ³	3	<u>ANTH 1213</u> or <u>ANTH 2003</u> ^T	3				
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	6	Elective ^{3,T}	6
<u>MATH 1113</u> ^T	3	Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	Second Field of Study ^{2,T}	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>PSY 2003</u> ^T	3	Elective ^{3,T}	3	<u>PSY 2053</u> ^T	3
Elective ^{3,T}	6	Elective ^{3,T}	6		6	PSY Topical Core ⁴	3
<u>TECH 1001</u>	1						
Total Hours	16	Total Hours	16	Total Hours	13	Total Hours	15
Junior				Senior			
Spring		Fall		Spring		Fall	
PSY Topical Core ⁴	6	PSY Topical Core ⁴	3	PSY (3000-4000 level)	6	<u>PSY 4003</u>	3
<u>PSY 2063</u> ^T	3	Second Field of Study ²	6	Elective ³	6	Elective ³	9
Elective ³	3	Elective ³	3	Second Field of Study ²	3	Second Field of Study ²	3
<u>SOC 1003</u> ^T	3	<u>ANTH 1213</u> or <u>ANTH 2003</u> ^T	3				
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²A minor may be used to fulfill the 2nd field of study.

³At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

⁴See appropriate options in "[Topical Core](#)".

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Psychology

The psychology minor is designed for students of any major who want to pursue an understanding of human behavior through psychology. Many majors could benefit from the psychology minor, but majors that are especially compatible include biology, business education, nursing, pre-med, pre-law, rehabilitation science, and sociology. The minor in psychology requires 18 hours of courses:

- PSY 2003 General Psychology
- PSY Electives (3 hours)
- PSY Electives (12 hours of 3000 or 4000 level)

Rehabilitation Science

The Rehabilitation Science curriculum is designed to produce undergraduate rehabilitation generalists who have training and experience conducive to successful careers in various rehabilitation service programs. Within the Rehabilitation Science major six areas of emphasis are offered: 1) Addictions, 2) Aging, 3) Child Welfare, 4) Corrections, 5) Social Services, and 6) Vocational Rehabilitation.

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The primary objective of the program is to develop personnel for careers with state and private agencies providing rehabilitation services to individuals with a disability. Until such time as the student enters graduate school, he/she may work in a variety of roles such as caseworker, evaluator, parole officer, probation officer, juvenile intake officer, children and family service worker, or a number of rehabilitation service-provider roles in direct service agencies or institutions. Examples of these agencies and institutions are state rehabilitation services, departments of social services, mental retardation centers, mental hospitals, correctional facilities, nursing homes, halfway houses, sheltered workshops, employment security divisions, disability determination, and occupational skills training schools.

The student majoring in rehabilitation science must, in addition to completing the general education requirements:

- complete the rehabilitation and related required core, including 12 hours of field placement or a 12-hour internship in rehabilitation science. If the field placements are taken instead of an internship, the student must take one placement course in the core rehabilitation area, one in the chosen primary emphasis area, and one in the chosen secondary emphasis area.
- complete a minimum of 12 non-field placement hours in a primary emphasis area and 6 hours of the indicated courses in a secondary emphasis area. Emphasis areas available are vocational rehabilitation, social services, aging, corrections, child welfare and addictions.

Curriculum in Rehabilitation Science

Suggested Sequence of Courses

Freshman		Sophomore					
Fall	Spring	Fall	Spring				
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>RS 3004</u>	4
<u>RS 2003</u>	3	<u>PSY 2003</u> ^T	3	<u>PSY 2053</u> or <u>SOC 2053</u> ^T	3	<u>PSY 2063</u> or <u>SOC 2063</u>	3
<u>SOC 1003</u> ^T	3	<u>ANTH 1213</u> or <u>ANTH 2003</u>	3	<u>RS 3013</u>	3	Elective or Emphasis Area ^{2,T}	8
<u>MATH 1113</u> ^T	3	Science with Lab ^{1,T}	4	Elective ^T	2		
<u>TECH 1001</u>	1	Elective ^T	2	<u>PSY 3063</u> ^T	3		
Elective ^T	2						
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours	15 Total Hours	15 Total Hours		15
Junior		Senior					
Fall	Spring	Fall	Spring				
<u>RS 3023</u>	3	<u>RS 3123</u>	3	<u>RS 3133</u>	3	RS 40_4 ³	4
<u>RS 3073</u>	3	<u>PSY 3003</u> ^T	3	RS 40_4 ³	4	<u>U.S. History/Government</u> ^{1,T}	3
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective or Emphasis Area ²	3	Elective or Emphasis Area ²	8
Elective or Emphasis Area ²	6	RS 40_4 ³	4		4		
		Elective or Emphasis Area ²	2				
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours	15 Total Hours	15 Total Hours		15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²18 hours of emphasis area courses are required. 12 hours in a primary emphasis and 6 hours in a secondary emphasis.

³Students who choose to complete a 12 hour internship ([RS 4012](#)) will do so either their last or next to last semester and will not take the three field placements RS 40_4.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Rehabilitation Science

The rehabilitation science minor is designed primarily for psychology and sociology majors who want to add an applied dimension to their degree and are interested in working in a human services setting after completing degree requirements. It may also be of interest to business majors interested in working in human resources, nursing majors, education majors, and other degree programs. The minor in rehabilitation science requires 18 hours of courses:

[RS 2003](#) Introduction to Rehabilitation Services

[RS 3023](#) Principles and Techniques of Rehabilitation Science

*RS Electives (12 hours)

*Students who choose to complete a minor in rehabilitation science should consult with a rehabilitation science faculty member to discuss course selection and how they want their RS minor to supplement their major.

Sociology

The Sociology curriculum is designed to prepare students for employment in a range of careers or for advanced study in sociology, law, criminology, criminal justice, counseling, education, research, population, social work or other related fields. Sociology prepares majors to deal with the constant social change that is today's world. In addition to understanding the organization of social groups and the human behaviors that comprise everyday social life, sociologists remain important contributors to the collection of data pertaining to these levels of human behavior. The undergraduate sociology major learns to identify problems, formulate appropriate questions, search for answers, analyze data, organize information, and express themselves in written and spoken communication. The undergraduate major provides a strong liberal arts degree for entry-level positions throughout the business, social service, and government worlds. In addition to the general education requirements, a student majoring in sociology must complete: (1) 30 hours of sociology including [SOC 1003](#), [SOC 2053](#), [SOC 2063](#), [SOC 2073](#), [SOC 2083](#), [SOC 3163](#), [SOC 4283](#) and 15 credit hours of 3000-4000 level Sociology courses; (2) Complete a minor or major in a second field of study; (3) [PSY 2003](#); and (4) [RS 2003](#); and [ANTH 1213](#) or [ANTH 2003](#).

Curriculum in Sociology

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T} 3	ENGL 1023 ^{1,T} 3	SOC 2053 ^T 3	U.S. History/Government ^{1,T} 3
Science with Lab ^{1,T} 4	ANTH 1213 or ANTH 2003 ^T 4	Science with Lab ^{1,T} 3	Fine Arts & Humanities ^{1,T} 3
General Elective ² 3	General Elective ² 3	PSY 2003 ^T 3	SOC 2083 ^T 3
SOC 1003 ^T 3	Fine Arts & Humanities ^{1,T} 3	SOC 2073 ^T 3	General Elective ² 6
TECH 1001 1	MATH 1113 ^T 3	SOC 2063 ^T 3	3
Total Hours 14	Total Hours 15	Total Hours 15	Total Hours 16
Junior		Senior	
Fall	Spring	Fall	Spring
Elective- Minor 3	SOC Elective (3000-4000 level) 3	SOC Elective (3000-4000 level) 3	SOC 4283 3
RS 2003 ^T 3	SOC 3163 3	Elective- Minor 3	Elective- Minor 3
Elective- Minor 3	Elective- Minor 3	General Elective ² 6	General Elective ² 9
General Elective ² 3	General Elective ² 3	6	
SOC Elective (3000-4000 level) 3			
Total Hours 15	Total Hours 15	Total Hours 15	Total Hours 15

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
ENGL 1013 ^{1,T} 3	ENGL 1023 ^{1,T} 3	U.S. History/Government ^{1,T} 3	General Elective ² 3

Science with Lab ^{1,T}	4	ANTH 1213 or ANTH 2003 ^T	3	SOC 2053 ^T	3	Science with Lab ^{1,T}	4
TECH 1001	1	General Elective ²	3	SOC 2083 ^T	3	SOC 2073 ^T	3
SOC 1003 ^T	3	Fine Arts & Humanities ^{1,T}	3	SOC 2063 ^T	3	Fine Arts & Humanities ^{1,T}	3
General Elective ²	3	MATH 1113 ^T	3	General Elective ²	3	PSY 2003 ^T	3
Total Hours	14	Total Hours	15	Total Hours	15	Total Hours	16
Junior		Senior					
Spring		Fall		Spring		Fall	
SOC 3163	3	RS 2003 ^T	3	Elective- Minor	3	Elective- Minor	6
SOC Elective (3000-4000 level)	3	SOC Elective (3000-4000 level)	3	SOC Elective (3000-4000 level)	3	General Elective ²	9
Elective - Minor	3	Elective- Minor	3	Elective- Minor	3		
General Elective ²	6	General Elective ²	6	SOC 4283	3		
				General Elective ²	3		
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²To be chosen in consultation with advisor. Students are strongly encouraged to pursue a foreign language. At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Sociology

The sociology minor is designed to prepare students for employment in a range of careers that require an understanding of social processes and institutions. In addition, the sociology minor is provided for students whose major department requires a minor. The minor in sociology requires 18 hours of courses:

[SOC 1003](#) Introductory Sociology
[SOC 3133](#) Self and Society or [CJ 2033](#)/[SOC 2033](#) Social Problems
 SOC Electives (12 hours)

Associate of Arts Criminal Justice

The Associate of Arts degree program in criminal justice is designed primarily for students interested in police work at levels other than Federal. This degree will provide the basic, foundational, knowledge to supplement the police academy experience.

Completion of the requirement for the associate's degree will provide the necessary background for those continuing study towards a bachelor's degree. To qualify for the Associate of Arts in criminal justice, the student must satisfy the associate degree requirements, see "[General Education Requirements](#)" of this catalog and complete the following curriculum:

Curriculum in Criminal Justice

Suggested Sequence of Courses

Freshman		Sophomore	
ENGL 1013 ¹	3	ENGL 1023 ¹	3
CJ 2003	3	Fine Arts & Humanities ¹	3
Science with Lab ¹	4	U.S. History/Government ¹	3
MATH 1113 or higher	3	CJ 2033	3
TECH 1001	1	CJ Elective	6
Total	14	Total	15

¹See "[General Education Requirements](#)".

Minor Criminal Justice

The criminal justice minor is designed to prepare students for a career in the field of criminal justice, e.g. police work, probation/parole or corrections. In addition, the criminal justice minor is provided for students whose major department requires a minor. The minor in criminal justice requires 18 hours of courses:

[CJ 2003](#) Introduction to Criminal Justice

[CJ 2043](#) Crime and Delinquency

CJ Electives (12 hours)

MOU Between ATU and NSU

Arkansas Tech University (ATU) and Northwestern State University (NSU) have agreed to enter into a Memorandum of Understanding for a 2+2 program between the two institutions. The 2+2 program will allow students to complete the Associate of Arts in Criminal Justice at ATU and transfer in to the Bachelor of Art Degree in Criminal Justice at NSU. More information may be obtained from the Department of Behavioral Sciences.

Minor Anthropology

The minor in anthropology concentrates on the areas of cultural anthropology. Within this subdivision, the emphasis concerns historic and contemporary cultures (ethnography) and prehistoric cultures (archeology). The Russellville Station of the Arkansas Archeological Survey is located on the Arkansas Tech University campus and offers traditional opportunities in the state for students interested in anthropology. The minor in anthropology requires 18 hours of courses:

[ANTH 1213](#) Introduction to Anthropology

[ANTH 2003](#) Cultural Anthropology

ANTH Electives (12 hours)

Department of English and World Languages

The Department of English and World Languages offers majors and teacher licensure in creative writing, English, International Studies, Spanish and Spanish Medical Interpretation. In addition, the department offers minors in creative writing, English, film studies, French, German, Italian/Latin, Japanese, Latin American/Latino studies with language proficiency, Latin American/Latino studies without language proficiency, Spanish, Spanish medical Interpretation and teaching English as a second language.

The program in English seeks to help students express themselves effectively, especially in writing; develop a respect for and an understanding of language; appreciate and profit from a study of our common literary heritage; increase their awareness of and empathy for diverse peoples and cultures; discover the relevance of ideas and values found in their reading; and learn to think critically and evaluate wisely.

English majors are prepared for a variety of careers in advertising, communications, education, government, management, personnel work, public relations, and sales. A degree in English also provides an excellent undergraduate preparation for the student planning to pursue graduate study of business, law, or the humanities.

The degree program in English requires 36 semester hours in English: [ENGL 2063](#); [ENGL 3013](#) or [ENGL 3023](#); [ENGL 3313](#); [ENGL 3323](#); [ENGL 3413](#); [ENGL 3423](#) and six English electives. The English major must also complete two semesters of study in one foreign language.

Students who plan to use an English degree as a preparation for law school are encouraged to complete some of the following electives in addition to their required courses: [BLAW 2033](#), Legal Environment of Business; [PHIL 3103](#), Logic; [CJ 4023](#), Law and the Legal System; [POLS 3023/ CJ 3023](#) Judicial Process; [POLS 4043](#), American Constitutional Law; [CJ 4053](#), Criminal Law and the Constitution; [SOC 2043/CJ 2043](#), Crime and Delinquency; [PSY 2003](#), General Psychology; [SPH 2003](#), Public Speaking; [SPH 2111-SPH 2121](#), Debate Practicum; [SPH 4153](#), Persuasive Theory and Audience Analysis; [JOUR 4123](#), Laws of Communication.

The curriculum for teacher licensure in English is located in the catalog section for the [College of Education](#).

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Professors:

Brucker, Chandler, Lake, Lombardo, Poznar, Ritchie, Ward, Wilson, Zakharian

Associate Professors:

Enchelmayer, Gemme, White, Worley

Assistant Professors:

Carballo, Clair, Hoffman, Ramirez, St. John, Shaman, Wendelberger, M. Williams

Instructor:

N. Cox, Joselin-Yucra

Curriculum in English (BA Degree)

Degree Completion Plan Beginning in Fall Semester							
Freshman		Sophomore					
Fall	Spring	Fall	Spring	Fall	Spring		
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ENGL 2063	3	ENGL 3013 or ENGL 3023	3
Social Sciences ^{1,T}	3	Social Sciences ^{1,T}	3	U.S. History/Government ^{1,T}	3	Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3
Mathematics ^{1,T}	3	Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	English Elective ³	3
Beg. Foreign Lang I ^{2,T}	4	Beg. Foreign Lang II ^{2,T}	4	English Elective ³	3	Elective ⁴	3
TECH 1001	1			Fine Arts & Humanities ^{1,T}	3	Fine Arts & Humanities ^{1,T}	3
Total Hours	14	Total Hours	14	Total Hours	16	Total Hours	15
Junior		Senior					
Fall	Spring	Fall	Spring	Fall	Spring		
ENGL 3313	3	ENGL 3323	3	English Elective (3000-4000 level)	3	English Elective (3000-4000 level)	3
ENGL 3413	3	ENGL 3423	3	Elective ⁴	12	Elective ⁴	13
English Elective ³	3	English Elective ³	3				
Elective ^{4,T}	6	Elective ^{4,T}	6				
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	16

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 ENGL 2063	3 ENGL 3313
Social Sciences ^{1,T}	3 Social Sciences ^{1,T}	3 ENGL 3013 or ENGL 3023	3 U.S. History/Government ^{1,T}
Mathematics ^{1,T}	3 Science with Lab ^{1,T}	4 Science with Lab ^{1,T}	4 English Elective ³
Elective ^{4,T}	3 Beg. Foreign Lang I ^{2,T}	4 Beg. Foreign Lang II ^{2,T}	4 Elective ^{4,T}
TECH 1001	1	Fine Arts & Humanities ^{1,T}	3 Fine Arts & Humanities ^{1,T}
Total Hours	13 Total Hours	14 Total Hours	17 Total Hours
Junior		Senior	
Spring	Fall	Spring	Fall
ENGL 3323	3 ENGL 3413	3 ENGL 3423	3 English Elective (3000-4000 level)
Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3 English Elective ³	6 English Elective (3000-4000 level)	3 Elective ⁴
English Elective ³	3 Elective ⁴	6 Elective ⁴	9
Elective ^{4,T}	6		
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²All minimum college hours (at least two semesters) should be in one language. Students with previous study in a foreign language should refer to Foreign Language Advanced Placement and Credit under Credit by Examination.

³Any 2-4000 level English courses excluding [ENGL 2003](#), [ENGL 2013](#), [ENGL 2173](#), [ENGL 2881](#), and 4881-4.

⁴At least 40 of the 120 hours required for graduation must be earned in 3000-4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor English

The English minor is an excellent complement to any major, allowing students to choose from a wide selection of courses in literature, advanced writing, and linguistics.

The minor in English requires 18 hours of English courses:

ENGL Electives (9 hours, excluding [ENGL 1013](#), [ENGL 1023](#), [ENGL 1043](#), and [ENGL 1053](#))

ENGL Electives (9 hours of 3000 or 4000 level)

Minor Film Studies

The film studies minor requires 18 hours of course work selected from the following:

[ENGL 2173](#) or [JOUR 2173](#) Introduction to Film
[ENGL 3173](#) Studies in Film (may be repeated)
[ENGL 4173](#) Seminar in Film Studies (may be repeated)
[ENGL 4093](#) Seminar in Creative Writing: Screenwriting
[HIST 4163](#) American History Through Film
[SPAN 4803](#) Film Theory

Minor Teaching English as a Second Language

The minor in teaching English as a second language offers students an opportunity to add this useful specialization to their transcripts.

The minor in teaching English as a second language requires 18 hours of English and world languages courses:

[ENGL 4023](#) Second Language Acquisition
[ENGL 4703](#) Teaching English as a Second Language
[ENGL 4713](#) ESL Assessment
[ENGL 4723](#) Teaching People of Other Cultures
 and 6 hours selected from the following:
[ENGL 3013](#) Systems of Grammar
[ENGL 3023](#), [FR 3023](#), [GER 3023](#), [SPAN 3023](#), [SPH 3023](#) Linguistics
[ENGL 4733](#) Teaching English in the Secondary School
[FR 4073](#), [GER 4073](#), [SPAN 4703](#) Foreign Language Teaching Methods

Creative Writing

The program in creative writing seeks to help students develop their creative potential, especially in writing; explore the practical aspects of publishing and getting published; learn a respect for and an understanding of language; appreciate and profit from a study of our common literary heritage; increase their awareness of and empathy for diverse peoples and cultures; discover the relevance of ideas and values found in their reading; and learn to think critically and evaluate wisely.

Creative writing majors are prepared for a variety of careers in advertising, communications, education, government, management, personnel work, public relations, and sales. A degree in English also provides an excellent undergraduate preparation for the student planning to pursue graduate study of business, law, or the humanities.

The degree program in creative writing requires 45 hours in English: [ENGL 2043](#); [ENGL 2063](#); [ENGL 3043](#) [ENGL 3083](#); [ENGL 3093](#); [ENGL 3313](#); [ENGL 3323](#); [ENGL 3413](#); [ENGL 3423](#); [ENGL 4093](#); [ENGL 4813](#) and four English electives.

Students who plan to use a creative writing degree as a preparation for law school are encouraged to complete some of the following electives in addition to their required courses:

[BLAW 2033](#), Legal Environment of Business;
[CJ 2043/SOC 2043](#) Crime and Delinquency;
[CJ 3023/POLS 3023](#) Judicial Process;
[CJ 4023](#), Law and the Legal System;
[CJ 4053](#), Criminal Law and the Constitution;
[JOUR 4123](#), Laws of Communication;
[PHIL 3103](#), Logic;
[POLS 4043](#), American Constitutional Law;
[PSY 2003](#), General Psychology;
[SPH 2003](#), Public Speaking;
[SPH 2111- SPH 2121](#), Debate Practicum;
[SPH 4153](#), Persuasive Theory and Audience Analysis.

The curriculum for teacher licensure in creative writing is located in the catalog section for the [College of Education](#).

Curriculum in Creative Writing (BFA Degree)

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T} 3	ENGL 1023 ^{1,T} 3	ENGL 2043 3	English Elective ² 6
Social Sciences ^{1,T} 6	Fine Arts & Humanities ^{1,T} 3	U.S. History/Government ^{1,T} 3	Social Sciences/Fine Arts/Humanities/Speech ^{1,T} 3
Mathematics ^{1,T} 3	Science with Lab ^{1,T} 4	Science with Lab ^{1,T} 4	Elective ^{3,T} 3
TECH 1001 1	Elective ^{3,T} 3	ENGL 2063 3	ENGL 3043 3
		Fine Arts & Humanities ^{1,T} 3	
Total Hours 13	Total Hours 13	Total Hours 16	Total Hours 15
Junior		Senior	
Fall	Spring	Fall	Spring
ENGL 3313 3	ENGL 3323 3	ENGL 4093 3	ENGL 4813 3
ENGL 3413 3	ENGL 3423 3	English Elective ² 3	English Elective (3000-4000 level) 3
ENGL 3093 3	ENGL 3083 3	Elective ^{3,T} 9	Elective ³ 12
Elective ^{3,T} 6	Elective ³ 6		

Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	18
Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring		Fall		Spring		Fall	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ENGL 2043	3	ENGL 3313	3
Social Sciences ^{1,T}	6	Fine Arts & Humanities ^{1,T}	3	U.S. History/Government ^{1,T}	3	English Elective ²	3
Mathematics ^{1,T}	3	Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3
TECH 1001	1	Elective ^{3,T}	6	ENGL 2063	3	Elective ^{3,T}	3
				Fine Arts & Humanities ^{1,T}	3	ENGL 3043	3
Total Hours	13	Total Hours	16	Total Hours	16	Total Hours	15
Junior				Senior			
Spring		Fall		Spring		Fall	
ENGL 3323	3	ENGL 3413	3	ENGL 3423	3	English Elective (3000-4000 level)	3
ENGL 3083	3	ENGL 3093	3	ENGL 4093	3	Elective ³	12
English Elective ²	3	English Elective ²	3	ENGL 4813	3		
Elective ^{3,T}	6	Elective ^{3,T}	6	Elective ³	6		
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Any 2-4000 level English courses excluding [ENGL 2003](#), [ENGL 2013](#), [ENGL 2173](#), [ENGL 2881](#), and [ENGL 4881-4](#).

³At least 40 of the 120 hours required for graduation must be earned in 3000-4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Creative Writing

The minor in creative writing provides students who cannot complete a full major with an opportunity to explore their interests in writing.

The minor in creative writing requires 18 hours of courses:

[ENGL 2043](#) Introduction to Creative Writing

[ENGL 3083](#) Fiction Workshop

[ENGL 3093](#) Poetry Workshop

and 9 hours selected from the following:

[ENGL 2881](#), 4881-4 Nebo Practicum

[ENGL 2063](#) Advanced Composition

[ENGL 3043](#) Literary Editing and Publishing

[ENGL 4093](#) Seminar in Creative Writing

ENGL Electives (any 3000 or 4000 level literature course)

World Languages

The program in world languages helps students grow personally, socially, and professionally. The department works to develop students' learning skills in world languages; to teach students to communicate effectively; to foster cultural understanding, tolerance and world perspective; and to prepare students to live, study, or work in international settings. World languages students are prepared to pursue graduate degrees and a variety of careers in business and industry, communication, education, foreign service, government, and public relations.

Students may choose a degree program in Spanish or Spanish for Medical Interpretation; pursue studies in Chinese, Italian, Japanese, and Latin,; or complete a minor in French, German, Italian/Latin, Japanese, Latin American/Latino studies with language proficiency, Latin American/Latino studies without language proficiency, Spanish, and Spanish Medical Interpretation.

The degree program in World Languages requires 38 hours in world languages.

All Spanish majors are required to take the ACTFL Oral Proficiency Interview (OPI) prior to graduation. The OPI fee is currently \$134 and assessed with enrollment in [SPAN 4003](#). Each student is responsible for the cost of the exam.

Students with previous world languages experience may petition the Department of English and World Languages for advanced placement and credit. Petitioners will be given written and/or oral examinations by a world languages faculty member who will then recommend an appropriate foreign language placement level. This placement level will not exceed [FR 3013](#), [GER 3013](#), [JPN 2024](#), [LAT 2013](#), or [SPAN 3013](#), and will be approved by the department head. Students who have omitted one or more courses in the basic language sequence will receive credit for omitted courses when they have validated their advanced placement by passing the course into which they are placed with a grade of "C" or better.

Students who want to improve their Japanese language skills and cultural knowledge may do so by studying for a semester or a year at Komazawa University in Tokyo. (see the catalog entry under Student Exchange Opportunities).

The curriculum for teacher licensure in Spanish is located in the catalog section of the [College of Education](#).

Curriculum in World Languages (BA Degree with Concentration Spanish)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T} 3	ENGL 1023 ^{1,T} 3	SPAN 3003 3	SPAN 3013 3
SPAN 2014 ^{2,3,T} 4	SPAN 2024 ^{2,3,T} 4	Fine Arts & Humanities ^{1, T} 4	Social Sciences/Fine Arts/Humanities/Speech ^{1,T} 3
Mathematics ^{1,6,T} 3	Science with Lab ^{1,T} 3	Social Sciences ^{1,T} 4	Electives ^{4,T} 9
U.S. History/Government ^{1,T} 3	Fine Arts & Humanities ^{1,T} 3	Science with lab ^{1,T} 3	4
TECH 1001 1			
Total Hours 14	Total Hours 14	Total Hours 14	Total Hours 15
Junior		Senior	
Fall	Spring	Fall	Spring
SPAN 3213 3	SPAN 3123 3	SPAN 4213 3	SPAN 4223 3
SPAN 4203 3	Elective ⁴ 3	Elective ⁴ 6	Elective ⁴ 9
Elective ^{4,T} 6	SPAN 3143 or SPAN 3163 3	SPAN 4003 ⁵ 3	3
SPAN 3133 3	SPAN 4023 3	3	
Total Hours 15	Total Hours 15	Total Hours 15	Total Hours 16

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students with previous study in a foreign language should refer to Foreign Language Advanced Placement and Credit under Credit by Examination.

³Lab attendance is required for the beginning and intermediate foreign language courses.

⁴At least 40 of the total hours required for graduation must be 3000-4000 level.

⁵All foreign language majors will be required to take the OPI.

⁶Must complete course with grade of C or better.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor French

The minor in French is designed for foreign language majors who would like to study an additional language and for students who cannot complete a major in a foreign language, but for employment or other considerations, would like to obtain some basic foreign language competencies and be familiar with the culture of the target language. The minor in French requires 17 hours of courses (all course prerequisites must be met first):

- [FR 2014](#) Intermediate French I
- [FR 2024](#) Intermediate French II
- [FR 3003](#) Conversation and Composition I

[FR 3013](#) Conversation and Composition II
[FR 3113](#) Culture and Civilization

Minor German

The minor in German is designed for foreign language majors who would like to study an additional language and for students who cannot complete a major in a foreign language, but for employment or other considerations, would like to obtain some basic foreign language competencies and be familiar with the culture of the target language. The minor in German requires 17 hours of courses (all course prerequisites must be met first):

[GER 2014](#) Intermediate German I
[GER 2024](#) Intermediate German II
[GER 3003](#) Conversation and Composition I
[GER 3013](#) Conversation and Composition II
[GER 3113](#) Culture and Civilization

Minor Japanese

The minor in Japanese is designed for foreign language majors who would like to study an additional language and for students who cannot complete a major in a foreign language, but for employment or other considerations, would like to obtain some basic foreign language competencies and be familiar with the culture of the target language. The minor in Japanese requires 17 hours of courses (all course prerequisites must be met first):

[JPN 2014](#) Intermediate Japanese I
[JPN 2024](#) Intermediate Japanese II
[JPN 3003](#) Conversation and Composition I
[JPN 3013](#) Conversation and Composition II
[JPN 3113](#) Culture and Civilization

Minor Latin American/Latino Studies with language proficiency

The minor in Latin American and Latino Studies with language proficiency is designed for students who wish to obtain a sufficient background about the Spanish speaking populations in Arkansas and the United States. This minor will be particularly valuable to students who are already bilingual and who plan to work with native Spanish speakers in the health fields, law enforcement, education, and the service sectors. The minor in Latin American and Latino Studies with language proficiency requires 18 hours of courses (all course prerequisites must be met first):

[HIST 3313](#) Colonial Latin America
[HIST 3323](#) Modern Latin America
[HIST 4133](#) Latinos in the United States
AND

9 hours selected from the following:

[SPAN 3123](#) Spanish Civilization and Culture
[SPAN 3133](#) Spanish-American Civilization and Culture
[SPAN 3143](#) Contemporary Hispanic Culture Immersion Experiences
[SPAN 4213](#) Spanish Literature
[SPAN 4223](#) Spanish-American Literature
[SPAN 4803](#) Film Theory
[SPAN 4991](#)-3 Special Problems in Spanish

Minor Latin American/Latino Studies without language proficiency

The minor in Latin American and Latino Studies without language proficiency is designed for students who wish to obtain a sufficient background about the Spanish speaking populations in Arkansas and the United States, but who do not wish to major in either history or Spanish. This minor will be particularly valuable to students who plan to work with native Spanish speakers in the health fields, law enforcement, education, and the service sectors. The minor in Latin American and Latino Studies without language proficiency requires 16 hours of courses (all course prerequisites must be met first):

[GEOG 3303](#) Geography of Latin America
[HIST 3313](#) Colonial Latin America
[HIST 3323](#) Modern Latin America
[HIST 4133](#) Latinos in the United States
[SPAN 1024](#) Beginning Spanish II

Minor Spanish

The minor in Spanish is designed for foreign language majors who would like to study an additional language and for students who cannot complete a major in a foreign language, but for employment or other considerations, would like to obtain some basic foreign language competencies and be familiar with the culture of the target language. The minor in Spanish requires 17 hours of courses (all course prerequisites must be met first):

[SPAN 2014](#) Intermediate Spanish I

[SPAN 2024](#) Intermediate Spanish II

[SPAN 3003](#) Conversation and Composition I

[SPAN 3013](#) Conversation and Composition II or [SPAN 3113](#) Business Spanish

[SPAN 3123](#) Spanish Civilization and Culture or [SPAN 3133](#) Spanish-American Civilization and Culture

Minor Spanish Medical Interpretation

The minor in Spanish Medical Interpretation is designed for students who plan careers in medicine and would like to obtain some basic Spanish competencies and an introduction to medical interpretation theory and Spanish medical terminology. The minor in Spanish Medical Interpretations requires 21 hours of courses (all course prerequisites must be met first):

[SPAN 1063](#) Basic Spanish for Medical and Social Services

[SPAN 2014](#) Intermediate Spanish I

[SPAN 2024](#) Intermediate Spanish II

[SPAN 3003](#) Conversation and Composition I

[SPAN 3013](#) Conversation and Composition II

[SPAN 3133](#) Spanish-American Civilization and Culture

[SPAN 3382](#) Principles of Interpretation

Department of History and Political Science

A baccalaureate degree in history or political science offers excellent preparation for careers in government and education, further study in graduate school or law school, and careers in the private sector of the economy. The baccalaureate degree in public history prepares students for careers in historic preservation as well as museum and archive management. Students interested in becoming teachers may also elect to work toward social studies secondary teaching licensure. In addition, the department offers minors in geography, history, philosophy, political science, strategic studies and pre-law.

The history degree requires thirty nine semester hours in courses in addition to the required General Education courses. In the General Education requirements, history majors are required to take the two-course sequence in World Civilization ([HIST 1503](#), [HIST 1513](#)), and the two-course sequence in American history ([HIST 2003](#), [HIST 2013](#)). The thirty nine semester hours required for the history degree include the introductory courses in political science and economics ([POLS 2003](#), [ECON 2003](#)), Regional Geography of the World ([GEOG 2013](#)), three hours of a foreign language or speech, the introduction to anthropology or sociology ([ANTH 2003](#) or [SOC 1003](#)), Historical Methods ([HIST 2513](#)), Arkansas History ([HIST 4153](#)), and Senior Seminar ([HIST 4963](#)). Fifteen additional semester hours must be 3000-4000 level history courses with at least six hours in U.S. History and six hours in World/European History.

The political science degree requires thirty nine additional semester hours beyond the General Education requirements. ; In the General Education requirements, political science majors are required to take the two-course sequence in American history ([HIST 2003](#), [HIST 2013](#)), World Civilization ([HIST 1513](#)), and an introductory course in sociology, psychology or economics ([SOC 1003](#), [PSY 2003](#), [ECON 2003](#)) ; The thirty nine semester hours required for the political science degree include the introductory course ([POLS 2003](#)), Western Political Thought ([POLS 2253](#)), Research Design ([POLS 2513](#)), either American Political Behavior ([POLS 3123](#)) or Congress ([POLS 3133](#)), and either Comparative Government ([POLS 2403](#)) or International Relations ([POLS 2413](#)). Majors also choose one course from each of the four political science blocks: Research Methods, Political Theory, International Relations, and American Politics; Nine semester hours of electives, six of which must be 3000-4000 level and Senior Seminar ([POLS 4963](#)) complete the major requirements.

The public history degree requires fifty six additional semester hours beyond the General Education requirements. In the General Education requirements, public history majors are required to take the two-course sequence in World Civilization ([HIST 1503](#), [HIST 1513](#)), and the two-course sequence in American history ([HIST 2003](#), [HIST 2013](#)). The fifty nine semester hours required for the public history degree include introductory courses in political science ([POLS 2003](#)), historical geography or economic geography ([GEOG 3803](#) or [GEOG 4203](#)), web publishing ([COMS 1333](#)), an introduction to public history ([HIST 2203](#)), local and oral history ([HIST 3223](#)), grant writing ([HIST 3281](#)), archive and manuscript management ([HIST 3243](#)), historical editing ([HIST 3283](#)), Arkansas history ([HIST 4153](#)), Native American History ([HIST 4143](#)), historic preservation ([HIST 4293](#)), museum methods ([HIST 4403](#)), as well as a practicum and internship ([HIST 3291](#), [HIST 4976](#)). Fifteen additional semester hours must be 3000-4000 level history courses with at least nine hours in U.S. History and six hours in World/European History.

Students must complete 120 hours for graduation with a degree in history, political science or public history.

For the curriculum in [Social Studies for teacher licensure](#), see Curriculum in Secondary Education.

History

Curriculum in History

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 HIST 2003 ^T	3 HIST 2013 ^T 3
HIST 1503 ^T	3 HIST 1513 ^T	3 ANTH 2003 or SOC 1003	3 HIST 2513 3
Science with Lab ^{1,T}	4 Science with Lab ^{1,T}	4 Fine Arts & Humanities ^{1,T}	3 Elective ^T 9
Mathematics ^{1,T}	3 POLS 2003	3 ECON 2003	3
TECH 1001	1 Elective ^T	3 GEOG 2013	3
Total Hours	14 Total Hours	16 Total Hours	15 Total Hours 15

Dr. Jeff Woods, Head
Witherspoon Hall, Room 255
(479) 968-0265
jwoods@atu.edu

Professors:

Busch, DeBlack, Jenkins, Mitchell, Tarver

Associate Professors:

Dykema, Link, Moses, Roberts, Woods

Assistant Professors:

Gleason, Gooch, Housenick, Mirkovic, Neel, Pearson, Rogers, Swain

Junior		Senior	
Fall	Spring	Fall	Spring
HIST Elective (3000-4000 level) ³	3 HIST Elective (3000-4000 level)	3 HIST Elective (3000-4000 level) ³	3 HIST 4963 3
HIST Elective (3000-4000 level) ⁴	3 Foreign Lang or SPH Elective	3-4 HIST Elective (3000-4000 level) ⁴	3 HIST 4153 3
Elective ²	6 Elective ²	8-9 Elective ²	9 Elective ² 9
Fine Arts & Humanities ^{1,T}	3		
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours 15

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 HIST 2003 ^T	3 HIST 2013 ^T 3
HIST 1503 ^T	3 HIST 1513 ^T	3 ANTH 2003 or SOC 1003	3 HIST 2513 3
Science with Lab ^{1,T}	4 Science with Lab ^{1,T}	4 Fine Arts & Humanities ^{1,T}	3 Elective ^T 9
Mathematics ^{1,T}	3 POLS 2003	3 ECON 2003	3
TECH 1001	1 Elective ^T	3 GEOG 2013	3
Total Hours	14 Total Hours	16 Total Hours	15 Total Hours 15

Junior		Senior	
Spring	Fall	Spring	Fall
HIST Elective (3000-4000 level) ³	3 HIST Elective (3000-4000 level)	3 HIST Elective (3000-4000 level) ³	3 HIST 4963 3
HIST Elective (3000-4000 level) ⁴	3 Foreign Lang or SPH Elective	3-4 HIST Elective (3000-4000 level) ⁴	3 HIST 4153 3
Elective ²	6 Elective ²	8-9 Elective ²	9 Elective ² 9
Fine Arts & Humanities ^{1,T}	3		
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours 15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

³HIST class must be in the sub-field of United States History.

⁴HIST class must be in the sub-field of European or World History.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Political Science

Curriculum in Political Science

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 HIST 2013 ^T	3 Research Methods Block ³ 3-4
HIST 1513 ^T	3 HIST 2003	3 POLS 2253	3 POLS Elective ^T 3
SOC 1003 , PSY 2003 , or ECON 2003	3 POLS 2003	3 POLS 2513	3 Fine Arts & Humanities ^{1,T} 3
Mathematics ^{1,T}	3 Science with Lab ^{1,T}	4 Elective ^{2,T}	3 Elective ^{2,T} 5-6
Fine Arts & Humanities ^{1,T}	3		
TECH 1001	1 Elective ²	3 Science with Lab ^{1,T}	4
Total Hours	16 Total Hours	16 Total Hours	16 Total Hours 15

Junior

Senior

Fall		Spring		Fall		Spring	
Political Theory Block ⁴	3	International Relations Block ⁵	3	American Politics Block ⁶	3	POLS 4963	3
POLS 2403 or POLS 2413	3	POLS 3123 or POLS 3133	3	POLS Elective (3000-4000 level)	6	Elective ²	9
Elective ²	9	Elective ²	9	Elective ²	6		
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	12

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3
HIST 1513 ^T	3	HIST 2003	3
SOC 1003 , PSY 2003 , or ECON 2003	3	POLS 2003	3
Mathematics ^{1,T}	3	Science with Lab ^{1,T}	4
Fine Arts & Humanities ^{1,T}	3	Elective ^{1,T}	3
TECH 1001	1	Elective ^{2,T}	3
Total Hours	16	Total Hours	16
Junior		Senior	
Spring	Fall	Spring	Fall
Political Theory Block ⁴	3	American Politics Block ⁶	3
POLS 2403 or POLS 2413	3	POLS 3123 or POLS 3133	3
Elective ²	9	POLS Elective (3000-4000 level)	6
Total Hours	15	Total Hours	15
		Elective ²	6
		Total Hours	12
		Research Methods Block ³	3-4
		POLS Elective ^T	3
		Fine Arts & Humanities ^{1,T}	3
		Elective ^{2,T}	5-6
		Science with Lab ^{1,T}	4
		Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²At least 40 of the total hours required for graduation must be 3000 - 4000 level courses.

³The Research Methods choices include: [POLS 3513](#); or grade of C or better in any FL 2024 course; or appropriate methodology course approved by Department Head.

⁴The Political Theory choices include [POLS 3063](#); or [POLS 3253](#); or appropriate political theory or philosophy course approved by Department Head.

⁵The International Relations choices include [POLS 3013](#); or [POLS 3433](#); or [POLS 3473](#); or appropriate international relations or comparative government course approved by Department Head.

⁶The American Politics choices include [POLS 3023](#); or [POLS 3033](#); or [POLS 3053](#); or [POLS 3083](#); or [POLS 3093](#); or [POLS 3123](#); or [POLS 3133](#); or [POLS 3143](#); or [POLS 4043](#); or appropriate American politics course approved by Department Head.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Public History

Curriculum in Public History

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3
HIST 1503 ^T	3	HIST 2003	3
Elective ²	3	Science with Lab ^{1,T}	4
Mathematics ^{1,T}	3	Elective ²	8
Fine Arts & Humanities ^{1,T}	3	POLS 2003	3
		Science with Lab ^{1,T}	4
		COMS 1333	3
		Elective ²	3
		HIST Elective ³	3

<u>TECH 1001</u>	1				
Total Hours	16	Total Hours	16	Total Hours	15
Junior				Senior	
Fall		Spring		Fall	Spring
<u>HIST 3223</u>	3	<u>HIST 4403</u>	3	<u>HIST 3243</u>	3
<u>GEOG 3803</u> OR <u>GEOG 4203</u>	3	<u>HIST 3291</u>	1	<u>HIST 4293</u>	3
<u>HIST 4143</u>	3	<u>HIST 3283</u>	3	<u>HIST 3281</u>	1
<u>HIST 4153</u>	3	HIST Elective ³	3	HIST Elective ³	3
HIST Electives ⁴	3	HIST Electives ⁴	3	Electives	5
		Elective	3		
Total Hours	15	Total Hours	16	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore	
Spring		Fall		Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>HIST 2003</u>	3
<u>HIST 1503</u> ^T	3	<u>COMS 1333</u>	3	Electives ²	8
Elective ²	3	<u>POLS 2003</u>	3	Science with Lab ^{1,T}	4
<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4		
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>HIST 1513</u> ^T	3		
<u>TECH 1001</u>	1				
Total Hours	16	Total Hours	16	Total Hours	15
Junior				Senior	
Spring		Fall		Spring	Fall
<u>HIST 3223</u>	3	<u>HIST 4403</u>	3	<u>HIST 3243</u>	3
<u>GEOG 3803</u> or <u>GEOG 4203</u>	3	<u>HIST 3291</u>	1	<u>HIST 4293</u>	3
<u>HIST 4143</u>	3	<u>HIST 3283</u>	3	<u>HIST 3281</u>	1
<u>HIST 4153</u>	3	HIST Elective ³	3	HIST Elective ³	3
HIST Elective ⁴	3	HIST Elective ⁴	3	Electives	5
		Elective	3		
Total Hours	15	Total Hours	16	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²At least 40 of the total hours required for graduation must be 3000-4000 level courses.

³HIST class must be in the sub-field of United States History.

⁴HIST class must be in the sub-field of European or World History.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Geography

The minor in geography is designed to allow students who have successfully completed eighteen or more hours in Geography the opportunity to have his/her transcript noted with a statement certifying such accomplishment.

Students must have a minimum 2.00 grade point in their Geography courses to be eligible for a Geography minor.

Students wishing to obtain a minor in geography must complete:

GEOG 2013 Regional Geography of the World

GEOG 2023 Human Geography

GEOG Electives (12 hours with no more than 3 hours in GEOG 4993, Special Problems in Geography)

Minor History

The minor in history is designed for those students majoring in other disciplines who wish to increase the breadth and depth of their knowledge of the human past. This minor is particularly well suited for students who are interested in criminal justice, international studies, and foreign languages. The discipline of history satisfies our shared desire to know

more about ourselves, and students can tailor the curriculum of the minor to meet their specific interests. Students must have a minimum of 2.00 grade point in History courses to be eligible for a History minor. The minor in history requires 18 hours of courses:

[HIST 1503](#) World Civilization I or [HIST 1513](#) World Civilization II
[HIST 2003](#) U. S. History I or [HIST 2013](#) U. S. History II
HIST Electives (12 hours of 3000 - 4000 level)

Minor Military Science

The minor in military science is awarded to students who complete the Reserve Officer's Training Corps (ROTC) Program at Arkansas Tech University. The objective of the program is to provide a basic military education and, in conjunction with the goals of the University, to develop individual attributes essential to an Army officer. Instruction covers military fundamentals common to all branches of the military service. Students must have a minimum of a 2.00 grade point average in the required 21 hours to be eligible for a Military Science minor. Students wishing to obtain a minor in Military Science must complete:

[MS 1101](#) Leadership I
[MS 1111](#) Leadership II
[MS 2312](#) Military Organization/Tactics I
[MS 2402](#) Military Organization/Tactics II
[MS 3503](#) Advanced Leadership and Tactics I
[MS 3603](#) Advanced Leadership and Tactics II
[MS 4703](#) Applied Leadership and Management I
[MS 4803](#) Applied Leadership and Management II

and

[MS 4013](#) United States Military History or [HIST 4013](#) United States Military History

Minor Philosophy

The minor in philosophy is designed for those students who wish to broaden their study of the nature of knowledge. This minor is particularly well suited for students who wish to prepare for graduate work or law school. In addition to the academic benefits, the study of philosophy can make an important contribution to the well-lived life. Students can tailor the curriculum of the minor to meet their specific interests. Students must have a minimum 2.00 grade point in their Philosophy courses to be eligible for a Philosophy minor. The minor in philosophy requires 18 hours of courses:

[PHIL 3103](#) Logic

and 6 hours selected from the following:

[PHIL 2013](#) Religions of the World
[PHIL 3023](#) Ethics
[PHIL 3033](#) Esthetics
[PHIL 3053](#) Philosophy of Religion
[PHIL 3063](#) Modern Political Thought
[PHIL 3253](#) Classical Political Thought
[PHIL 4103](#) Advanced Logic

and 6 hours selected from the following:

[PHIL 3003](#) Ancient Philosophy
[PHIL 3013](#) Modern Philosophy
[PHIL 3113](#) Contemporary Philosophy
[PHIL 3203](#) Medieval Philosophy
[PHIL 4093](#) American Philosophy

and 3 hours in any additional Philosophy courses

Minor Political Science

The minor in political science is designed for anyone interested in politics, law, and government and is particularly well suited for students who are interested in criminal justice, international studies, journalism, business, and emergency management. Students can tailor the curriculum of the minor along either a national or international focus. Students must have a minimum 2.00 grade point in their Political Science courses to be eligible for a Political Science minor. The minor in political science requires 18 hours of courses:

[POLS 2253](#) Survey of Western Political Thought
[POLS 3123](#) American Political Behavior or [POLS 3133](#) United States Congress or [POLS 3143](#) The United States Presidency
[POLS 2413](#) International Relations or [POLS 2403](#) Comparative Government
[POLS 2513](#) Research Design
6 hours in any 3000 or 4000 level Political Science courses

Minor Pre-Law

The Pre-Law minor program's objective is to prepare students for entrance to and advanced study at law school or alternative careers in the legal profession (e.g. legal aide, court reporter, paralegal, etc.) upon graduation through the development of writing, analytic, logical reasoning, and research skills key to the study and practice of law. The minor in pre-law requires 21 hours of courses:

[ENGL 2053](#) Technical Writing
[SPH 2003](#) Public Speaking
[PHIL 3103](#) Logic
[POLS 4043](#) American Constitutional Law
[POLS 3023/CJ 3023](#) Judicial Process or [POLS 3024](#) Judicial Politics

and 3 hours selected from the following:

[HIST 4183](#) American Legal History
[HIST 3023](#) American Revolution and Founding Era

and 3 hours selected from the following:

[BLAW 2033](#) Legal Environments of Business
[PHIL 3023](#) Ethics
[MGMT 3123](#) Business Ethics
[CJ 4023](#) Law and the Legal System

Minor Religious Studies

The minor in religious studies is designed to provide students with the opportunity to learn about religion in cross-cultural and historical perspectives. The required courses are designed to provide a comparative perspective on world religions and to develop an appreciation of both the origins and contemporary expressions of different religions. This minor is particularly well suited for students in the humanities and social sciences as well as students in other disciplines who want to deepen their understanding of the role of religion in contemporary life. Students must have a minimum of 2.00 grade point in the required 18 hours to be eligible for a Religious Studies minor:

[HIST 1503](#) World Civilization I
[ANTH 2003](#) Cultural Anthropology
[PHIL 2013](#) Religions of the World
[PHIL 3053](#) Philosophy of Religion
[SOC 4073](#) Sociology of Religion
[HIST 4503](#) History of Christianity

Minor Strategic Studies

The minor in strategic studies is designed for those students who wish to increase the breadth and depth of their knowledge of the principles that have played a major role in shaping our understanding of foreign and security policy. This minor is particularly well suited for students who are interested in international studies, emergency management, political science, diplomatic history, military science, and international law. Students wishing to obtain a minor in Strategic Studies must complete:

[POLS 2153](#): Introduction to Strategic Studies
[POLS 2413](#): International Relations
[POLS 3013](#): Recent American Foreign and Military Policy
[POLS 3473](#): National Security Policy

and any two of the following courses:

[EAM 3243](#): Introduction to Terrorism
[EAM 3013](#): Public Policy Issues in Emergency Management
[ECON 4093](#): International Economics and Finance
[GEOG 4803](#): Seminar in Global Studies
[HIST 4013](#): American Military History
[HIST 4023](#): Vietnam War

[HIST 4083](#): American Diplomatic History, 1912 to the Present
[HIST 4813](#): World War II

Students must have a minimum 2.00 grade point in the required 18 hours to be eligible for a Strategic Studies minor.

Pre-Law Pre-Professional Program

Accredited law schools have not, in general, adopted specific requirements for pre-law courses. However, in most cases, courses of value to those planning the study of law include: history, economics, political science, philosophy, psychology, sociology, English composition, and literature, as well as courses in the natural sciences, mathematics, and accounting. A broad cultural background is of prime importance. Rather than attempt to prescribe the specific contents of courses to be taken by pre-law students, Arkansas Tech University considers the individual intellectual interests of students of prime importance, encouraging development of the ability to read and comprehend accurately, rapidly, and thoroughly; to think logically; to analyze and weigh situations and materials; to speak and write clearly; and to develop a critical approach and mature study habits.

Pre-Law Advisors
Witherspoon Room 255

The pre-professional curriculum is not a major in itself. Pre-law students must declare a major for graduation selected from any degree currently offered at Arkansas Tech University. Among general electives in the chosen major, or in excess of the 120 hours required for graduation, pre-law majors are urged to take the courses listed below to prepare them for the LSAT and law school. Many pre-law students choose to major in History and Political Science, and pre-law advisors are located in that department. Students should consult these listed pre-law advisors regardless of their chosen major, as these advisors specifically help students design a good pre-law curriculum. A pre-law library has been set up in Witherspoon 242 for student use.

Suggested Curriculum in Pre-Law

[POLS 2003](#) American Government

[POLS 3023/CJ 3023](#) Judicial Process

[CJ 4053](#) Criminal Law and the Constitution

[BLAW 2033](#) Legal Environment of Business

[PSY 2003](#) General Psychology

[ENGL 3043](#) Advanced Composition

[SPH 2003](#) Public Speaking

[SPH 2111-2121](#) Debate Practicum

[POLS 4043](#) American Constitutional Law

[CJ 2043/SOC 2043](#) Crime and Delinquency

[CJ 4023](#) Law and the Legal System

[PHIL 3063/POLS 3063](#) Modern Political Thought

[JOUR 4123](#) Laws of Communication

[PHIL 3103](#) Logic

[PHIL 3023](#) Ethics

[SPH 4153](#) Persuasive Theory and Audience Analysis

Department of Music

The mission of the Arkansas Tech University Music Department is to fully exercise its tradition of educational and cultural regional leadership to enhance the quality of life through the art form of music, providing undergraduate educational, artistic, and career opportunities for individuals and the greater society.

The music department has an established reputation for the superior quality of the music teacher preparation program and for high standards in musical performance. Arkansas Tech University is an accredited institutional member of the National Association of Schools of Music.

The goals of the music department are:

1. To provide excellence in music instruction;
2. To provide music instruction for students desiring to pursue music-related studies as a major, as preparation for graduate music studies, and as preparation for a career in music;
3. To provide music curricula leading to the Baccalaureate of Arts with a major in music;
4. To provide the necessary and desirable professional preparation for the training of accredited music teachers for public schools (Baccalaureate in Music Education);
5. To provide opportunities for meaningful professional growth through direct involvement in musical performance;
6. To provide educational and artistic service to students, the institution, the community, and the region;
7. To encourage creative work and research; and
8. To dedicate policies and resources for effectiveness in departmental programs.

Dr. Cynthia L. Hukill, Head
Witherspoon Hall
Room 107
(479) 968-0368
chukill@atu.edu

Professor:

Barrow

Associate Professors:

Anderson, Barber, K.L. Futterer, K.T. Futterer, Hukill, Kiehl, Parker, T. Smith

Assistant Professors:

B. Clements, J. Clements, del Grazia, Gale, Reed

Instructor:

G. Morris

An audition, demonstrating acceptable musical preparation, is required prior to enrollment as a major in music.

To meet the requirements for the baccalaureate degree in music, the student must complete 120 semester hours, including 8 hours of applied music and successful completion of the Sophomore Barrier and Keyboard Proficiency Exams, 4 hours in required ensembles (band or choir), 16 hours in music theory and ear training; and 8 hours of music history.

In order to meet the requirements for the baccalaureate degree in music education, students must complete 129 semester hours as indicated in the appropriate music education curriculum. Instrumental and keyboard music education majors must complete one semester of class voice. A senior recital is required.

All music majors must demonstrate acceptable piano proficiency or enroll in class or applied piano each semester until successful completion of the appropriate Piano Proficiency Exit Exam. The fee for class piano is \$10 per semester. All music majors are required to attend a prescribed number of campus concerts and recitals. Successful completion of 6 semesters of recital attendance is required.

Private instruction in the student's major performance area is required of all music majors. Such study involves one one-hour lesson and 12 hours of practice per week and carries two semester hours of credit. Students may elect enrollment as a non-major, subject to faculty availability. Such study involves one thirty-minute lesson, 6 hours of practice per week, and assigned ensemble participation. A fee of \$40 per semester credit hour is assessed for all applied music study.

Curriculum in Music

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
MUS 1000	0 MUS 1000	0 MUS 1000	0 MUS 1000
MUS 1713 ^T	3 MUS 1723	3 MUS 2713	3 MUS 2723
MUS 1731 ^T	1 MUS 1741 ^T	1 MUS 2731	1 MUS 2741
MUS 1__2 ^{5,7,10,T}	2 MUS 1__2 ^{5,7,10,T}	2 MUS 1__2 ^{5,7,10,T}	2 MUS 1__2 ^{5,7,10,T}
MUS 1441 or MUS 1201 ^{2,T}	1 MUS 1441 or MUS 1201 ^{2,T}	1 MUS 1501 , MUS 1571 or MUS 1681 ^{3,T}	1 MUS 1501 , MUS 1571 or MUS 1681 ^{3,T}
MUS 1501 , MUS 1571 or MUS 1681 ^{3,T}	1 MUS 1501 , MUS 1571 or MUS 1681 ³	1 Foreign Language ^T	4 MUS 1441 or MUS 1201 ^{2,T}

<u>Mathematics</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1	Sophomore Barrier Jury ⁶	0
<u>TECH 1001</u> ¹	1	Keyboard Proficiency Exam ⁴	0		0	Elective ^{8,9,T}	2
Total Hours	15	Total Hours	14	Total Hours	16	Total Hours	14
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>MUS 3000</u>	0	<u>MUS 3000</u>	0	<u>MUS 3692</u>	2	<u>Fine Arts & Humanities</u> ^{1,3,T}	3
<u>MUS 3773</u>	3	<u>MUS 3783</u>	3	Elective ^{8,9}	3	14 Elective ^{8,9}	10
<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3				
<u>U.S. History/Government</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3				
Elective ^{8,9}	7	Elective ^{8,9}	7				
Total Hours	16	Total Hours	16	Total Hours	16	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Piano (MUS 1441 or MUS 1021) to be taken each semester until completion of Piano Exit Exam. Students completing the exam upon entrance may substitute music elective hours for the requirement.

³Enrollment in MUS 1501, MUS 1571 or MUS 1681 to be selected by advisor. Only one credit per semester may be used for completion of major ensemble requirement.

⁴Successful completion required for graduation.

⁵Vocal majors are encouraged to enroll in Vocal Diction (MUS 1241, MUS 2241, MUS 2252) for elective credit.

⁶Successful completion required for enrollment in upper-level applied study for two hour credit and for completion of all music degrees.

⁷Concurrent enrollment is required for applied study in appropriate MUS 1501, MUS 1571 or MUS 1681.

⁸Elective courses to obtain a minimum of sixty-six non-music hours (21-23 in addition to General Education and Foreign Language hours).

⁹Elective courses to obtain a minimum of forty 3000/4000 level hours (32 in addition to music history hours).

¹⁰See course descriptions for the appropriate applied music course number.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Music Education For Teacher Licensure⁷ (Instrumental Music Option)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>MUS 1000</u>	0 <u>MUS 1000</u>	0 <u>MUS 1000</u>	0 <u>MUS 1000</u>
MUS 1__2 ^{8,T}	2 MUS 1__2 ^{8,T}	2 MUS 1__2 ⁸	2 MUS 1__2 ^{8,T}
<u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1 <u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1 <u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1 <u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}
<u>MUS 1501</u> ^T	1 <u>MUS 1501</u> ^T	1 <u>MUS 1501</u> ^T	1 Piano Exit Exam
<u>MUS 1713</u> ^T	3 <u>MUS 1723</u>	3 <u>MUS 2713</u>	3 <u>MUS 1501</u> ^T
<u>MUS 1731</u> ^T	1 <u>MUS 1741</u>	1 <u>MUS 2731</u>	1 <u>MUS 2723</u>
<u>MUS 2441</u> ^T	1 <u>ENGL 1023</u> ^{1,T}	3 <u>MUS 3401</u>	1 <u>MUS 2741</u>
<u>ENGL 1013</u> ^{1,T}	3 Science with Lab ^{1,T}	4 <u>Social Sciences</u> ^{1,T}	3 <u>MUS 3481</u>
<u>Mathematics</u> ^{1,T}	3	<u>SPH 2003</u> ^T	3 Sophomore Barrier Jury ³
			Science with Lab ^{1,T}
			<u>SEED 2002</u> ^T

Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15
Junior		Senior		Senior		Senior			
Fall		Spring		Fall		Spring			
<u>MUS 3000</u>	0	<u>MUS 3000</u>	0	MUS 3__2 ⁸	2	<u>SEED 4556</u> ⁵	6		
MUS 3__2 ⁸	2	MUS 3__2 ⁸	2	<u>MUS 3501</u>	1	<u>MUS 4281</u>	1		
<u>MUS 3501</u>	1	<u>MUS 3501</u>	1	<u>MUS 3692</u>	2	<u>MUS 4701</u>	1		
<u>MUS 3773</u>	3	<u>MUS 3783</u>	3	<u>MUS 3853</u> ⁴	3	<u>MUS 4001</u>	1		
<u>MUS 3802</u>	2	<u>MUS 3762</u>	2	<u>SEED 3552</u> ⁵	2	<u>Fine Arts & Humanities</u> ^{1,T}	3		
<u>MUS 3421</u>	1	<u>MUS 3281</u>	1	<u>SEED 4052</u> ⁵	2				
<u>MUS 4712</u>	2	<u>MUS 3431</u>	1	<u>Fine Arts & Humanities</u> ^{1,T}	3				
<u>MUS 4461</u>	1	<u>MUS 3702</u>	2						
<u>Social Sciences</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3						
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	12		
Senior 9th Semester									
Fall									
<u>SEED 4503</u>	3								
<u>SEED 4809</u> ^{6,7}	9								
Total Hours	12								

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Piano (MUS 1441 or MUS 1201) to be taken each semester until successful completion of Piano Exit Exam.

³Required for enrollment in upper-level applied study for two-hour credit and for completion for all music degrees

⁴Prerequisite: successful completion of Piano Exit Exam.

⁵Prerequisite: admission to Stage II.

⁶See admission policy and procedure.

⁷For licensure, students must pass the Praxis II music specialty and Principles of Learning and Teaching exam.

⁸See course descriptions for the appropriate applied music course number.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Music Education for Teacher Licensure⁷ (Vocal Music Option)

Suggested Sequence of Courses

Freshman		Sophomore		Sophomore	
Fall		Fall		Spring	
<u>MUS 1000</u>	0	<u>MUS 1000</u>	0	<u>MUS 1000</u>	0
<u>MUS 1232</u> ^T	2	<u>MUS 1232</u> ^T	2	<u>MUS 1232</u> ^T	2
<u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1	<u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1	<u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1
<u>MUS 1571</u> , <u>MUS 1581</u> or <u>MUS 1681</u> ^T	1	<u>MUS 1571</u> , <u>MUS 1581</u> or <u>MUS 1681</u> ^T	1	Piano Exit Exam	0
<u>MUS 1713</u> ^T	3	<u>MUS 2241</u>	3	<u>MUS 1571</u> , <u>MUS 1581</u> or <u>MUS 1681</u> ^T	1
<u>MUS 1731</u> ^T	1	<u>MUS 2713</u>	1	<u>MUS 2251</u>	1
<u>ENGL 1013</u> ^{1,T}	3	<u>MUS 2731</u>	1	<u>MUS 2723</u>	3
<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	3	<u>MUS 2741</u>	1
				Science with Lab ^{1,T}	4
				<u>SEED 2002</u>	2
				Sophomore. Barrier Jury ³	0

Total Hours	14 Total Hours	15 Total Hours	13 Total Hours	15
Junior		Senior		
Fall	Spring	Fall	Spring	
<u>MUS 3000</u>	0 <u>MUS 3000</u>	0 <u>MUS 3232</u>	2 <u>MUS 4001</u>	1
<u>MUS 3232</u>	2 <u>MUS 3232</u>	2 <u>MUS 3571, MUS 3581</u> or <u>MUS 3681</u>	1 <u>MUS 4701</u>	1
<u>MUS 3571, MUS 3581</u> or <u>MUS 3681</u>	1 <u>MUS 3571, MUS 3581</u> or <u>MUS 3681</u>	1 <u>MUS 3692</u>	2 <u>MUS 4832</u>	2
<u>MUS 3773</u>	3 <u>MUS 3783</u>	3 <u>MUS 3853</u> ⁴	3 <u>SEED 4556</u> ⁵	6
<u>MUS 4712</u>	2 <u>MUS 3762</u>	2 <u>MUS 3441</u>	1 <u>Fine Arts & Humanities</u> ^{1,T}	3
<u>MUS 3802</u>	2 <u>MUS 4821</u>	1 <u>SEED 3552</u> ⁵	2	
<u>MUS 3821</u>	1 <u>Social Sciences</u> ^{1,T}	3 <u>SEED 4052</u> ⁵	2	
<u>MUS 3702</u>	2 <u>U.S. History/Government</u> ^{1,T}	3 <u>Fine Arts & Humanities</u> ^{1,T}	3	
<u>SPH 2003</u> ^T	3			
Total Hours	16 Total Hours	15 Total Hours	16 Total Hours	13
Senior 9th Semester				
Fall				
<u>SEED 4503</u>	3			
<u>SEED 4809</u> ^{6,7}	9			
Total Hours	12			

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Piano (MUS 1441 or MUS 1201) to be taken each semester until successful completion of Piano Exit Exam.

³Required for enrollment in upper-level applied study for two-hour credit and for completion for all music degrees.

⁴Prerequisite: successful completion of Piano Exit Exam.

⁵Prerequisite: admission to Stage II.

⁶See admission policy and procedure.

⁷For licensure, students must pass the Praxis II specialty and Principles of Learning and Teaching exam.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Music Education For Teacher Licensure⁵ (Keyboard Vocal Music Option)

Suggested Sequence of Courses

Freshman			Sophomore	
Fall	Spring	Fall	Spring	
<u>MUS 1000</u>	0 <u>MUS 1000</u>	0 <u>MUS 1000</u>	0 <u>MUS 1000</u>	0
<u>MUS 1202</u> ^T	2 <u>MUS 1202</u> ^T	2 <u>MUS 1202</u> ^T	2 <u>MUS 1202</u> ^T	2
<u>MUS 1571, MUS 1581</u> or <u>MUS 1681</u> ^T	1 <u>MUS 1571, MUS 1581</u> or <u>MUS 1681</u> ^T	1 <u>MUS 1571, MUS 1581</u> or <u>MUS 1681</u> ^T	1 <u>MUS 1571, MUS 1581</u> or <u>MUS 1681</u> ^T	1
<u>MUS 1713</u> ^T	3 <u>MUS 1723</u>	3 <u>MUS 1231</u> ^T	1 <u>MUS 1231</u> ^T	1
<u>MUS 1731</u> ^T	1 <u>MUS 1741</u>	1 <u>MUS 2713</u>	3 <u>MUS 2201</u>	1
<u>MUS 2441</u> ^T	1 <u>MUS 1231</u>	1 <u>MUS 2731</u>	1 <u>MUS 2723</u>	3
<u>ENGL 1013</u> ^{1,T}	3 <u>MUS 2201</u>	1 Science with Lab ^{1,T}	4 <u>MUS 2741</u>	1
<u>Mathematics</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T} Science with Lab ^{1,T}	3 <u>Social Sciences</u> ^{1,T}	3 <u>SPH 2003</u> ^T	3
		4	<u>SEED 2002</u> ^T	2
			Sophomore Barrier Jury ²	0
Total Hours	14 Total Hours	16 Total Hours	15 Total Hours	14
Junior		Senior		

Fall		Spring		Fall		Spring	
<u>MUS 3000</u>	0	<u>MUS 3000</u>	0	<u>MUS 3692</u>	2	<u>MUS 4001</u>	1
<u>MUS 3202</u>	2	<u>MUS 3202</u>	2	<u>MUS 3202</u>	1	<u>MUS 3762</u>	2
<u>MUS 3571</u> , <u>MUS 3581</u> or <u>MUS 3681</u>	1	<u>MUS 3571</u> , <u>MUS 3581</u> or <u>MUS 3681</u>	1	<u>MUS 3571</u> , <u>MUS 3581</u> or <u>MUS 3681</u>	2	<u>MUS 3442</u>	2
<u>MUS 1231</u>	1	<u>MUS 3783</u>	3	<u>MUS 3853</u>	3	<u>SEED 4556</u> ⁴	6
<u>MUS 3773</u>	3	<u>MUS 3702</u>	2	<u>MUS 3441</u>	1	<u>MUS 4701</u>	1
<u>MUS 4712</u>	2	<u>MUS 4821</u>	1	<u>SEED 3552</u> ⁴	2		
<u>MUS 3802</u>	2	<u>U.S. History/Government</u> ^{1,T}	3	<u>SEED 4052</u> ⁴	2		
<u>MUS 3821</u>	1	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3		
<u>Social Sciences</u> ^{1,T}	3						
Total Hours	15 Total Hours			15 Total Hours		16 Total Hours	12

Senior 9th Semester

Fall	
<u>SEED 4503</u>	3
<u>SEED 4809</u> ^{4,5}	9
Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Required for enrollment in upper-level applied study for two-hour credit and for completion for all music degrees.

³Prerequisite: admission to Stage II.

⁴See admission policy and procedure.

⁵For licensure, students must pass the Praxis II specialty and Principles of Learning and Teaching exam.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

**Curriculum in Music Education for Teacher Licensure⁴
(Keyboard Instrumental Music Option)**

Suggested Sequence of Courses

Freshman		Sophomore		Sophomore		Senior	
Fall		Spring		Fall		Spring	
<u>MUS 1000</u>	0	<u>MUS 1000</u>	0	<u>MUS 1000</u>	0	<u>MUS 1000</u>	0
<u>MUS 1202</u> ^T	2	<u>MUS 1202</u> ^T	2	<u>MUS 1202</u> ^T	2	<u>MUS 1202</u> ^T	2
<u>MUS 1501</u> ^T	1	<u>MUS 1501</u> ^T	1	<u>MUS 1501</u> ^T	1	<u>MUS 1501</u> ^T	1
<u>MUS 1713</u> ^T	3	<u>MUS 1723</u> ^T	3	<u>MUS 2713</u>	3	<u>MUS 2723</u>	3
<u>MUS 1731</u> ^T	1	<u>MUS 1741</u> ^T	1	<u>MUS 2731</u>	1	<u>MUS 2741</u>	1
<u>MUS 2441</u> ^T	1	<u>MUS 2201</u> ^T	1	<u>MUS 3401</u>	1	<u>MUS 2201</u>	1
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>MUS 3481</u>	1
<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>Social Sciences</u> ^{1,T}	3	<u>SPH 2003</u> ^T	3
						Sophomore. Barrier Jury ²	0
						<u>SEED 2002</u> ^T	2
Total Hours	14 Total Hours			15 Total Hours		15 Total Hours	14
Junior		Senior		Senior		Senior	
Fall		Spring		Fall		Spring	
<u>MUS 3000</u>	0	<u>MUS 3000</u>	0	<u>MUS 3692</u>	2	<u>MUS 4001</u>	1
<u>MUS 3202</u>	2	<u>MUS 3202</u>	2	<u>MUS 3202</u>	1	<u>MUS 3762</u>	2
<u>MUS 3501</u>	1	<u>MUS 3501</u>	1	<u>MUS 3501</u>	2	<u>MUS 4281</u>	1
<u>MUS 3773</u>	3	<u>MUS 3783</u>	3	<u>MUS 3853</u>	3	<u>MUS 4701</u>	1
<u>MUS 3421</u>	1	<u>MUS 3431</u>	1	<u>SEED 3552</u> ³	2	<u>MUS 3442</u>	2

<u>MUS 4712</u>	2	<u>MUS 3281</u>	1	<u>SEED 4052</u>	2	<u>SEED 4556</u> ³	6
<u>MUS 3802</u>	2	<u>MUS 4461</u>	1	<u>Fine Arts & Humanities</u> ^{1,T}	3		
<u>MUS 3702</u>	2	<u>Fine Arts & Humanities</u> ^{1,T}	3				
<u>Social Sciences</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3				
Total Hours	16	Total Hours	15	Total Hours	15	Total Hours	13

Senior 9th Semester

Fall

<u>SEED 4503</u>	3
<u>SEED 4809</u> ^{3,4}	9
Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Required for enrollment in upper-level applied study for two-hour credit and for completion of all music degrees.

³See admission policy and procedure.

⁴For licensure, students must pass the Praxis II specialty and Principles of Learning and Teaching exam.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Department of Speech, Theatre and Journalism

The Speech, Theatre, and Journalism Department offers majors in speech (speech communication and theatre options) and in journalism. In addition, the department offers minors in journalism, speech, and theatre. Students are involved in both the theoretical and applied dimensions of human communication in these programs. Consequently, students interested in further study and those interested in immediate career opportunities are served. With faculty guidance on the proper selection of courses, students can prepare for: (1) graduate school, (2) public school teaching, (3) recreational or professional theatre, (4) print or broadcast journalism, (5) public relations, or (6) business or government employment requiring communication expertise.

Being able to speak effectively has been recognized as an indicator of the well-educated person throughout recorded history. The ancient Greeks studied the theory and practice of communication under the label of "rhetoric," which also has taken a central role in American education since Harvard was founded in 1636. Even in today's technologically sophisticated world, good human communication skills are vitally important for one's personal and professional life. The study of communication in its original form, speech, or its evolved stages of print and electronic communication can prepare the student for citizenship in a democratic society, for more satisfying relationships, and for occupational success.

Mr. Anthony Caton, Interim Head
CES 124
(479) 964-0890
acaton@atu.edu

Professors

A. Morris

Associate Professors:

Norton, Vaughn

Assistant Professors:

Adkins, Brugh, Caton,
Duerringer, Eshelman, Hudkins,
S. Lee, Mumert, Reeder

Instructor:

Donnell

Journalism

The journalism major requires 31-32 semester hours in Journalism: 12 hours of core requirements, 12-13 hours in one of three options (print, broadcast, or public relations), 6 hours of electives, and 4 hours of practicum. 18 hours of the 31-32 hours major must be upper division hours. Students may take a total of eight hours of practicum coursework; however, only four will count toward the major. The 12 hours in any option must include the pertinent writing course. Recommended courses for each option are listed, with substitutions possible with the approval of the student's advisor and department head. Moreover, Journalism requires two semesters (8 hours) of one foreign language; and all majors must know how to type on a computer keyboard.

Core Requirements

[JOUR 2133](#) Introduction to Mass Communication

[JOUR 2143](#) News Writing

[JOUR 2163](#) Introduction to Multimedia

[JOUR 4883](#) Mass Communication Theory

Print Option:

[JOUR 3114](#) News Editing

[JOUR 3143](#) News Reporting (required for concentration)

[JOUR 3153](#) Feature Writing

[JOUR 4143](#) Advanced Reporting

Broadcast Option:

[JOUR 2153](#) Introduction to Telecommunication

[JOUR 3183](#) Broadcast News Writing (required for concentration)

[JOUR 3193](#) New Media News Gathering

[JOUR 4133](#) Television Program Production

Public Relations Option:

[JOUR 3173](#) Public Relations Principles

[JOUR 3273](#) Public Relations Writing (required for concentration)

[JOUR 4073](#) Graphic Communication

[JOUR 4173](#) Public Relations Project

Curriculum in Journalism (Broadcast Option)

Degree Completion Plan Beginning in Fall Semester

Freshman

Sophomore

Fall		Spring		Fall		Spring	
<u>JOUR 2133</u>	3	<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>U.S. History/Government</u> ^{1,T}	3
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	Foreign Language ^{4,T}	4	Foreign Language ^{4,T}	4
<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 2143</u>	3	Broadcast Option Course ³	3
Science with Lab ^{1,T}	4	<u>JOUR 2163</u>	3	Broadcast Practicum ⁵	1	Broadcast Practicum ⁵	1
<u>TECH 1001</u>	1	Elective ^{2,5,T}	2	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
						Elective ^{2,5,T}	1
Total Hours	14	Total Hours	14	Total Hours	15	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective ^{2,5,T}	12	Elective ^{2,5,T}	11	<u>JOUR 4883</u>	3
Broadcast Option Course ³	3	Broadcast Option Course ³	3	JOUR Elective ⁵	3	Elective ^{2,5,T}	10
Broadcast Practicum ⁵	1	Broadcast Practicum ⁵	1			Broadcast Option Course ³	3
Elective ^{2,5,T}	9						
Total Hours	16	Total Hours	16	Total Hours	14	Total Hours	16

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore		Junior		Senior	
Spring		Fall		Spring		Fall	
<u>JOUR 2133</u>	3	<u>Mathematics</u> ^{1,T}	3	Physical Science ^{1,T}	4	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	Foreign Language ^{4,T}	4	Foreign Language ^{4,T}	4
<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 2143</u>	3	Elective ^{2,5,T}	1
Science with Lab ^{1,T}	4	<u>JOUR 2163</u>	3	Broadcast Practicum ⁵	1	Broadcast Practicum ⁵	1
<u>TECH 1001</u>	1	Elective ^{2,5,T}	2	Broadcast Option Course ³	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
						<u>U.S. History/Government</u> ^{1,T}	3
Total Hours	14	Total Hours	14	Total Hours	15	Total Hours	15
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective ^{2,5,T}	12	<u>JOUR 4883</u>	3	Electives ^{2,5,T}	13
Broadcast Option Course ³	3	Broadcast Option Course ³	3	Broadcast Option Course ³	3	JOUR Elective	3
Broadcast Practicum ⁵	1	Broadcast Practicum ⁵	1	Elective ^{2,5,T}	8		
Elective ^{2,5,T}	9						
Total Hours	16	Total Hours	16	Total Hours	14	Total Hours	16

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Recommended electives include [SPH 2003](#), 2013, 3003, 3063, 3073; [SOC 1003](#); [PSY 2003](#); [ECON 2003](#); [POLS 2003](#), [POLS 3033](#).

³Broadcast option courses include [JOUR 2153](#), [JOUR 3183](#), [JOUR 3193](#) and [JOUR 4133](#).

⁴Must be same language.

⁵At least 40 of the total hours required for graduation must be 3000-4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Journalism (Print Option)

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>JOUR 2133</u>	3	<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>U.S. History/Government</u> ^{1,T}	3
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	Foreign Language ^{4,T}	4	Foreign Language ^{4,T}	4
<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 2143</u>	3	Print Option Course ³	3
Science with Lab ^{1,T}	4	<u>JOUR 2163</u>	3	Journalism Practicum ⁵	1	Journalism Practicum ⁵	1
<u>TECH 1001</u>	1	Elective ^{2,5,T}	2	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T,3}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
		Elective ^{2,5,T}	2			Elective ^{2,5,T}	2
Total Hours	14	Total Hours	14	Total Hours	15	Total Hours	16
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective ^{2,5,T}	11	Print Option Course	3	<u>JOUR 4883</u>	3
<u>JOUR 3143</u>	3	Print Option Course ³	4	Elective ^{2,5,T}	11	JOUR Elective (3000-4000 level)	3
Journalism Practicum ⁵	1	Journalism Practicum ⁵	1			Elective ^{2,5,T}	9
Elective ^{2,5,T}	9						
Total Hours	16	Total Hours	16	Total Hours	14	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>JOUR 2133</u>	3	<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>U.S. History/Government</u> ^{1,T}	3
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	Foreign Language ^{4,T}	4	Foreign Language ^{4,T}	4
<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 2143</u>	3	<u>JOUR 3143</u>	3
Science with Lab ^{1,T}	4	<u>JOUR 2163</u>	3	Journalism Practicum ⁵	1	Journalism Practicum ⁵	1
<u>TECH 1001</u>	1	Elective ^{2,5,T}	2	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T,3}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
		Elective ^{2,5,T}	2			Elective ^{2,5,T}	2
Total Hours	14	Total Hours	14	Total Hours	15	Total Hours	16
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective ^{2,5,T}	11	<u>JOUR 4883</u>	3	Print Option Course ³	3
Print Option Course ³	3	Print Option Course ³	4	Elective ^{2,5,T}	12	JOUR Elective (3000-4000 level)	3
Journalism Practicum ⁵	1	Journalism Practicum ⁵	1			Elective ^{2,5,T}	8
Elective ^{2,5,T}	9						
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	14

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Recommended electives include [SOC 1003](#), [PSY 2003](#), [ECON 2003](#), [POLS 2003](#), [POLS 3033](#), [SPH 2003](#), [SPH 3003](#).

³Print option courses include [JOUR 3114](#), [JOUR 3153](#), [JOUR 4143](#).

⁴Must be same language.

⁵At least 40 of the total hours required for graduation must be 3000-4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Journalism (Public Relations Option)

Suggested Sequence of Courses							
Freshman		Sophomore					
Fall	Spring	Fall	Spring				
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3
<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	Science with Lab ^{1,T}	4	Foreign Language ^{4,T}	4
Science with Lab ^{1,T}	4	<u>Mathematics</u> ^{1,T}	3	Foreign Language ^{4,T}	4	JOUR Elective(3000-4000 level) ^{2,3}	3
<u>JOUR 2133</u>	3	<u>JOUR 2163</u>	3	<u>JOUR 2143</u>	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>TECH 1001</u>	1	Elective ^{2,3,5,T}	2	Journalism Practicum	1	Elective ^{2,3,5,T}	3
				Journalism Practicum	1	Journalism Practicum	1
Total Hours	14	Total Hours	14	Total Hours	15	Total Hours	17
Junior		Senior					
Fall	Spring	Fall	Spring				
<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective ^{2,3,5,T}	9	<u>JOUR 4073</u>	3	<u>JOUR 4173</u>	3
<u>JOUR 3173</u>	3	<u>JOUR 3273</u>	3	Elective (3000-4000 level) ^{2,3}	12	<u>JOUR 4883</u>	3
Journalism Practicum	1	Journalism Practicum	1	Elective ^{2,3,5,T}	1	Elective(3000-4000 level) ^{2,3}	8
Elective ^{2,3,5,T}	9	Elective (3000-4000 level) ^{2,3}	1				
Total Hours	16	Total Hours	14	Total Hours	16	Total Hours	14

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Recommended PR electives: [POLS 3053](#); [PSY 2023](#), [SPH 3073](#), [SPH 4063](#), [SPH 4173](#); an approved marketing class.

³Recommended JOUR electives: [SOC 1003](#), [PSY 2003](#), [ECON 2003](#), [POLS 2003](#), [POLS 3033](#), [SPH 2003](#), [SPH 3003](#).

⁴Must be in the same language.

⁵At least 40 of the total hours required for graduation must be 3000-4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Journalism

The minor in journalism is designed for students with any major who wish to better understand the role of media in a free society, and/or who anticipate dealing with media outlets in their future careers. The minor in journalism requires 18 hours of courses:

[JOUR 2133](#) Introduction to Mass Communication

[JOUR 2143](#) News Writing

[JOUR 4883](#) Mass Communication Theory

JOUR Electives (9 hours of 3000 or 4000 level from the three Journalism Options listed above)

Speech

The speech major offers a speech communication option and a theatre option. Both options require 30 semester hours selected from departmental course offerings. Eighteen hours of the 30-hour major must be upper division level. Students planning to teach in the public schools should refer to the suggested curriculum in Speech set forth in this catalog under teacher licensure curricula, [College of Education](#).

Those students choosing the speech communication option must take [SPH 1003](#), [SPH 2003](#), [SPH 2023](#), [SPH 3123](#), and [SPH 4003](#). Students choosing the speech communication option, in consultation with an adviser, can design a program in

one of the following areas of emphasis: (1) communication for the professions; (2) language and culture; (3) organizational communication; and (4) performance studies.

Curriculum in Speech (Speech Communication Option)

Suggested Sequence in Courses				
Freshman		Sophomore		
Fall	Spring	Fall	Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	SPH Elective
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,T}	3	Science with Lab ^{1,T}
Science with Lab ^{1,T}	4	Mathematics ^{1,T}	3	SPH 2003 ^T
SPH 1003	3	Elective	6	Elective
Elective	3			SPH 2023
TECH 1001	1			3
Total Hours	17 Total Hours		15 Total Hours	16 Total Hours
15				15
Junior		Senior		
Fall	Spring	Fall	Spring	
SPH Elective (3000-4000 level)	6	Fine Arts & Humanities ^{1,T}	3	SPH 4003
Elective	9	SPH Elective (3000-4000 level)	3	Elective (3000-4000 level)
		Elective (3000-4000 level)	9	12 Elective
				SPH Elective (3000-4000 level)
				Elective (3000-4000 level)
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Certain electives and social sciences are recommended based on student's emphasis.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Speech Communication

The minor in speech communication is designed for students with any major who recognize the need for communication skills in order to achieve their career goals. The minor in speech requires 18 hours of courses:

- [SPH 2003](#) Public Speaking
- [SPH 3123](#) Argumentation
- SPH Elective (12 hours of 3000 or 4000 level)

Theatre Option

Those students choosing the theatre option must take [SPH 2013](#), [TH 2203](#), [TH 2513](#), [TH 2703](#), [TH 3513](#); 3 hours of Theatre History, [TH 4263](#), [TH 4273](#), [TH 4313](#), or [TH 4323](#).

Curriculum in Speech (Theatre Option)

Suggested Sequence of Courses				
Freshman		Sophomore		
Fall	Spring	Fall	Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Social Sciences ^{1,4,T}
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,4,T}	3	Social Sciences/Fine Arts/Humanities/Speech ^{1,4,T}
Science with Lab ^{1,T}	4	Mathematics ^{1,T}	3	Science with Lab ^{1,T}
				SPH 2013
				3
				Fine Arts & Humanities ^{1,4,T}
				3

<u>TH 2203</u>	3	Elective ^{4,T}	6	Elective ^{4,T}	6	Elective ^{4,T}	6
<u>TH 2703</u>	3						
<u>TECH 1001</u>	1						
Total Hours	17	Total Hours	15	Total Hours	16	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>Fine Arts & Humanities</u> ^{1,4,T}	3	TH History ²	3	TH Elective (3000-4000 level) ³	3	TH Elective (3000-4000 level) ³	3
<u>TH 3513</u>	3	TH Elective (3000-4000 level) ³	3	Elective (3000-4000 level)	5	Elective (3000-4000 level)	5
TH Elective (3000-4000 level) ³	3	Elective (3000-4000 level)	6	Elective	7	Elective	4
Elective (3000-4000 level)	6	Elective	3				
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Choose one: [TH 4263](#), [TH 4273](#), [TH 4313](#), [TH 4323](#).

³A maximum of seven hours of theatre practicum courses may be counted toward the thirty-hour major.

⁴Certain electives and social sciences are recommended based on student's emphasis.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Theatre

The minor in theatre is designed for students with any major who wish to acquire a better knowledge and understanding of the theatrical arts in order to enrich cultural experiences in their life. The minor in theatre requires 18 hours of courses:

[TH 2203](#) Play Analysis
[TH 2703](#) Acting Theories and Techniques
[TH 2513](#) Intro to Theatre Design and Production
[TH 3513](#) Stagecraft Techniques
 TH Elective (3 hours)

and 3 hours selected from the following:

[TH 4263](#) Theatre History I: Antiquity to 1564
[TH 4273](#) Theatre History II: 1564 to 1900
[TH 4313](#) Theatre History III: 1900 to 1960
[TH 4323](#) Theatre History IV: 1960 to Present

College of Business

Arkansas Tech University has offered baccalaureate degrees with majors in business and accounting since 1950 and 1959 respectively. The degree programs were housed in the Division of Business and then in the School of Systems Science prior to the establishment of the School of Business in 1986. The School of Business became the College of Business in 2009. The College is comprised of a Department of Management and Marketing and a Department of Accounting and Economics. Business students may seek a Bachelor of Science in Business Administration with major fields of study in Accounting, Economics & Finance, and Management & Marketing or a Bachelor of Science with a major in Business Education.

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From its early years the College has used full-time faculty to teach primarily full-time undergraduate students. The faculty believe that teaching excellence and the currency of subject matter are best maintained through ongoing professional interaction with peers and the business community. In support of its mission, the faculty participates in service and engages in scholarly activities oriented towards professional practice and pedagogical research.

College of Business faculty and students use current technology to equip students with the necessary business competency skills needed to be successful leaders in business. Students and faculty are encouraged to participate actively in the learning process. A high degree of faculty-student interaction is sought through the management of class sizes and individualized advising. The College adheres to high levels of ethical conduct and promotes this ideal to its students as they prepare for personal and professional success in an evolving global business environment.

Our Vision

The Arkansas Tech University College of Business will be recognized as the premier undergraduate business program in the state of Arkansas.

Our Mission

The mission of the College of Business is to provide undergraduate students with the intellectual foundation for lifelong learning by combining a quality education in fundamental business management competencies with a broad exposure to the liberal arts.

Our Guiding Principles

The College of Business carries out its mission through its commitment to the following guiding principles and core values:

Excellence
Professionalism
Collaboration
Continuous Improvement

The College is committed to:

- High-quality undergraduate learning and faculty development.
- Highest ethical standards of personal and professional conduct for faculty, students and administrators. Professionalism includes maintaining faculty intellectual qualifications and expertise at levels which support the college's mission.
- Cooperative interaction among students and faculty to achieve the college's mission.
- A systems approach to continuously improve all aspects of the learning process. This includes feedback from major stakeholders and a spirit of experimentation.

Programs of Study

The College of Business offers programs of study leading to baccalaureate degrees as listed below:

Bachelor of Science

[Business Education](#)

Bachelor of Science in Business Administration

[Accounting](#)

[Economics and Finance](#)

[Management and Marketing](#) with concentrations in:

[Entrepreneurship](#)

[International Business](#)

[Management](#)

[Marketing](#)

The College of Business is committed to preparing students for meaningful careers in business, industry, government or education; or for admission to and success in quality graduate programs. This commitment is founded on the belief that graduates from the College should have a strong background in the liberal arts as a basis for mature understanding of the problems of business leadership and management. The objective of the general education curriculum required of all College of Business majors is to ensure they acquire a knowledge and understanding of topics in the humanities, sciences, communications, social sciences and other related subjects to support a lifetime of continual learning.

Learning Goals

Students who major in any of the bachelor degree programs in the College of Business are required to complete a common core of business courses. The learning goals of the BSBA degree program are to develop students':

1. Ability to use technology to support business decisions.
2. Overall communication skills in a business context.
3. Ability to think critically and reason effectively about business problems.
4. Ethical awareness and ethical decision-making framework in a business context.
5. Foundation knowledge for conducting business in a diverse, global environment.

Accreditation

The Bachelor of Science in Business Administration degree programs offered by the College of Business are accredited by AACSB International - The Association to Advance Collegiate Schools of Business. AACSB International is the premier accrediting agency for business schools, stressing academic excellence and a commitment to continuous improvement. Approximately one third of the business schools in the United States and several selected schools internationally have earned AACSB International accreditation.

The Bachelor of Science with a major in Business Education is accredited by the National Council for Accreditation of Teacher Education (NCATE).

Transfer Students

In order to meet baccalaureate degree requirements, all transfer students must take in residence a minimum of fifty percent of the College of Business courses required for the degree. Of these courses, at least 24 hours must be 3000-4000 level, 12 hours must be in the student's major field, and 9 hours must be in the business core curriculum.

Business courses taken at other institutions at the 1000-2000 level which are offered by Tech at the 3000-4000 level will be transferred as free electives. Business courses taken at other institutions at the 3000-4000 level are subject to validation by the College of Business.

The Curriculum

A student who majors in one of the Bachelor of Science in Business Administration (B.S.B.A.) programs in the College of Business must complete:

1. The general education requirements as described in this catalog.
2. The following business core requirements:

[ACCT 2003](#) Accounting Principles I

[ACCT 2013](#) Accounting Principles II

[ECON 2003](#) Principles of Economics I

[ECON 2013](#) Principles of Economics II

[BLAW 2033](#) Legal Environment of Business

[BUAD 1001](#) Introduction to Business Systems

[BUAD 2003](#) Business Information Systems

[BUAD 2053](#) Business Statistics

[BUAD 3023](#) Business Communications

[ACCT 3063](#) Managerial Accounting **OR** [ACCT 4023](#) Cost Accounting

[ECON 3003](#) Money and Banking

[FIN 3063](#) Business Finance

[MKT 3043](#) Principles of Marketing

[BDA 2003](#) Business Problem Solving

[MGMT 3003](#) Management and Organizational Behavior

[MGMT 3103](#) Operations Management

[MGMT 4013](#) Management Information Systems **OR** [ACCT 3023](#) Accounting Information Systems¹

[MGMT 4083](#) Business Policy

3. The following courses in the quantitative area:

[MATH 1113](#) College Algebra²
[MATH 2223](#) Quantitative Business Analysis

4. Requirements that are listed on the following pages under each major.
5. Sufficient elective hours to bring the student's total hours to 120 (the number required for graduation).

In order to enroll in 3000- and 4000-level courses offered by the College of Business, students majoring in business must have the proper course prerequisites and satisfy the following enrollment requirements:

1. **Must have completed a minimum of 54 hours.**
2. **Must have a cumulative grade point average of 2.00 or above.**
3. **Completion of the following eighteen hours of business foundation courses:**

[ACCT 2003](#) and [ACCT 2013](#)
[ECON 2003](#) and [ACCT 2013](#)
Six hours from [BDA 2003](#), [BLAW 2033](#), [BUAD 2053](#)

Business students who meet enrollment requirements (1) and (2) above and have only completed fifteen hours of the foundation courses, may enroll in upper division business courses, provided they have the proper course prerequisites and they enroll in the remaining required foundation course in the same semester.

Students majoring in fields outside the College of Business may enroll in 3000- and 4000- level College of Business courses provided they have completed 54 credit hours, have a cumulative GPA of at least 2.0, and approval from the College of Business Dean.

¹Accounting majors must take [ACCT 3023](#). All other business majors must take [MGMT 4013](#).

²Students who have two years of high school Algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in [MATH 2223](#), Quantitative Business Analysis.

Department of Accounting and Economics

The Department of Accounting and Economics offers two degree programs. The objective of both degree programs is to offer an academic base equipping students to be life-long learners who will then mature as professionals in the world of business. The accounting curriculum prepares graduates for a variety of careers in public, private and not-for-profit entities as well as entry into graduate programs. The department also provides a major program in economics and finance where graduates can enter professional careers as economic and financial analysts in business or government or continue in graduate studies.

Students who plan to pursue graduate studies should consider the entrance requirements of the graduate degree program which they desire to enter. Faculty advisors will work closely with these students to assist them in planning their course work to meet the graduate degree program requirements. Part of this planning will involve the student sitting for examinations such as the GMAT, GRE, or LSAT.

Dr. Pamela Carr, Head
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Professors:

R. Brown, Carr

Associate Professors:

Alexander, Benefield, Goza

Assistant Professors:

Cole, Fusaro, Hunter, Nagac,
Pennington, Trivitt

Instructor:

Griffin

Accounting

Since the inception of the program in 1959, accounting graduates have established careers in every segment of the business world. Employment opportunities range from national, regional, and local public accounting firms to corporations, sole proprietorships, and national state and local government entities. The accounting profession offers a promising future for men and women who are comfortable in meeting people, expressing themselves, working in changing environments, and who possess an inquiring and logical thought process.

Learning Goals for Accounting Major:

1. Students will be able to demonstrate knowledge of current accounting practices and theory and be conversant in the language of business.
2. Students will be able to demonstrate the ability to think critically about accounting topics.
3. Students will demonstrate the ability to communicate accounting information effectively, both orally and in writing.
4. Students will be able to demonstrate competency in current accounting information technology.
5. Students will be able to demonstrate competency in ethical business and accounting decision making.

Holding the licensure designation as a Certified Public Accountant is viewed as evidence of a professional quality in the discipline of accounting. CPAs are viewed by the business world as individuals who possess a professional knowledge of accounting principles and concepts and have the experiences necessary to make proper application of those principles and concepts. Students who desire to pursue this professional designation can complete the curriculum which will provide them with the necessary academic background to permit the graduate to sit for the uniform certified public accountant examination.

The goal of many students is a career in private accounting rather than public accounting. Professional designations such as Certified Management Accountant (CMA) and Certified Internal Auditor (CIA) are earned by completing examinations offered by their respective professional associations. Accounting majors who desire to complete those certification processes may complete a course of study which will enable them to be a candidate for those professional examinations.

Professional Examination Requirements

All students who, upon graduation, plan to sit for a professional examination (CPA, CMA, CIA) should obtain a copy of the specific course requirements of the respective examination. The requirements should be considered in planning the student's course of study while completing the degree. The Arkansas State Board of Public Accountancy requires 150 semester hours of credit for first-time CPA Examination candidates effective with the first CPA Examination given in 1998.

The following curriculum in accounting leads to a Bachelor of Science in Business Administration degree with a major in accounting.

Curriculum in Accounting

Suggested Sequence of Courses

Freshman		Spring		Sophomore		Spring	
Fall		Fall		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>ACCT 2003</u> ^T	3	<u>ACCT 2013</u> ^T	3

Social Sciences ^{1,T}	3	Elective	2	ECON 2003 ^T	3	ECON 2013 ^T	3
BUAD 1111 ^T	1	Science with Lab ^{1,T}	4	BDA 2003	3	U.S. History/Government ^{1,T}	3
MATH 1113 ^{2,T}	3	SPH 2173 ^T	3	BUAD 2053 ^T	3	BLAW 2033 ^T	3
BUAD 2003 ^T	3	MATH 2223 ^{2,T}	3	Science with Lab ^{1,T}	4	Fine Arts & Humanities ^{1,T}	3
Elective	2						
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
ACCT 3003	3	ACCT 3013	3	ACCT 4003	3	ACCT 4013	3
ACCT 3043	3	ACCT 3053	3	ACCT 4033	3	ACCT 4023	3
BUAD 3023	3	ECON 3003	3	MKT 3043	3	FIN 3063	3
Fine Arts & Humanities ^{1,T}	3	ACCT 3023	3	Elective	5	MGMT 4083	3
MGMT 3003	3	MGMT 3103	3			Elective	3
Total Hours	15	Total Hours	15	Total Hours	14	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students who have two years of high school algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in [MATH 2223](#), Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required. Students considering graduate school are advised to use free elective hours to take [MATH 2914](#).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Accounting

The minor in Accounting is available to students who wish to add to their knowledge of accounting for personal edification or for professional purposes. Please note that for non-business majors, no more than 30 hours of courses offered by the College of Business may be counted toward completion of degree requirements.

The minor in Accounting requires 21 hours of courses:

[BUAD 2003](#) or [COMS 1003](#)

[ACCT 2003](#)

[ACCT 2013](#)

[ACCT 3003](#)*

[ACCT 3013](#)*

[ACCT 3043](#)*

3 hours of either [ACCT 3053](#) or [ACCT 4023](#)*

*in order to take the upper division (3000-4000 level) ACCT courses, the student must have completed 54 hours including all 2000 level courses listed above, have a cumulative GPA of at least 2.0 and permission from the Dean of Business.

Economics and Finance

The study of economics and finance equips students to analyze a broad range of socioeconomic phenomena and policy alternatives. Regulation, environmental protection, economic growth and development, the distribution of income, resource allocation, international trade and finance, comparative economic systems, inflation, and the level of employment are some traditional topics of economics. The finance courses focus on financial definitions and concepts involving sources and uses of funds, personal investment strategy, and financial institutions.

The economics and finance course of study contains a theoretical core supporting the finance, accounting, marketing, and management fields. It is designed to prepare graduates for management or analytical careers in business or government. In addition, the major provides a foundation for graduate study in a variety of fields. Faculty advisors will work closely with students to assist them in planning their course work to achieve personal career objectives.

Students who complete the economics and finance program will be able to:

1. Understand economic concepts and relationships.
2. Understand financial decision making at the individual, corporate, and public policy levels.
3. Improve problem-solving skills through the application of economic and financial concepts.
4. Evaluate economic and financial issues in a global context.

Curriculum in Economics and Finance

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore					
Fall	Spring	Fall	Spring				
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ACCT 2003 ^T	3	ACCT 2013 ^T	3
BUAD 1111 ^T	3	Social Sciences ^{1,T}	3	ECON 2003 ^T	3	ECON 2013 ^T	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	BDA 2003	3	U.S. History/Government ^{1,T}	3
BUAD 2003 ^T	3	SPH 2173 ^T	3	MATH 2243 ^{3,T}	3	BUAD 2053 ^T	3
MATH 1113 ^{2,T}	3	MATH 2223 ^{2,T}	3	Elective	3	BLAW 2033	3
Elective	1						
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	15
Junior		Senior					
Fall	Spring	Fall	Spring				
MGMT 3003	3	ECON 3073	3	ECON/FIN Elective (3000-4000 level) ⁴	3	MGMT 4083	3
FIN 3043	3	FIN 3063	3	Elective	3	ECON 4093	3
ECON 3003	3	MKT 3043	3	MGMT 4013	3	ECON/FIN Elective (3000-4000 level) ⁴	3
ACCT 3063 or ACCT 4023	3	Fine Arts & Humanities ^{1,T}	6	FIN 4043	3	Elective	5
BUAD 3023	3			MGMT 3103	3		
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	14

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore					
Spring	Fall	Spring	Fall				
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ACCT 2003 ^T	3	ACCT 2013 ^T	3
BUAD 1111 ^T	1	Social Sciences ^{1,T}	3	ECON 2003 ^T	3	ECON 2013 ^T	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	BDA 2003	3	U.S. History/Government ^{1,T}	3
BUAD 2003 ^T	3	SPH 2173 ^T	3	MATH 2243 ^{3,T}	3	BUAD 2053 ^T	3
MATH 1113 ^{2,T}	3	MATH 2223 ^{2,T}	3	Elective	3	BLAW 2033	3
Elective	1						
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	15
Junior		Senior					
Spring	Fall	Spring	Fall				
MGMT 3003	3	ECON 3073	3	ECON 4093	3	FIN 4043	3
MKT 3043	3	FIN 3063	3	MGMT 3103	3	MGMT 4083	3
ECON 3003	3	FIN 3043	3	MGMT 4013	3	Elective	5
ACCT 3063 or ACCT 4023	3	Fine Arts & Humanities ^{1,T}	6	ECON/FIN Elective (3000-4000 level) ⁴	3	ECON/FIN Elective (3000-4000 level) ⁴	3
BUAD 3023	3			Elective	3		
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	14

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students who have two years of high school algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in [MATH 2223](#), Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required.

³Students considering graduate school are advised to take [MATH 2914](#).

⁴Only three hours of economic/finance internship will apply to this requirement.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Economics

The minor in Economics is available to students who wish to add to their knowledge of business for personal edification or for professional purposes, but not open to College of Business majors. **Please note that for non-business majors, no more than 30 hours of courses offered by the College of Business may be counted toward completion of degree requirements.**

The minor in Economics requires 18 hours of courses:

[ACCT 2003](#)

[ECON 2003](#)*

[ECON 2013](#)

[ECON 3003](#)**

6 hours of 3-4000 level Economics electives**

*for many majors [ECON 2003](#) can be used to satisfy 3 hours of the general education social science requirement.

**in order to take the upper division (3000-4000 level) ECON courses, the student must have completed 54 hours including all 2000 level courses listed above, have a cumulative GPA of at least 2.0 and permission from the Dean of Business.

Department of Management and Marketing

The Department of Management and Marketing offers majors in management and marketing and business education. Decision making as a process is stressed. Students are taught to search for and identify important facts and properly analyze them in developing sound alternative courses of action. Modern analytical techniques as well as the importance of the behavioral sciences are introduced.

The management and marketing major is designed generally to prepare students for careers as professional managers or as self-employed entrepreneurs in either profit-seeking or not-for-profit organizations. The curriculum emphasizes a comprehensive understanding of business principles and economic activities. The required course of study seeks to prepare the graduate not only for initial employment but for subsequent advancement in his/her chosen vocation. Effective education for business responsibility consists not only of the development of an understanding of the principles and methodologies which govern the organization and administration of the individual business enterprise, but also includes an understanding of larger problems and relationships of the economy as a whole.

Dr. Kevin H. Mason, Head
Rothwell Hall, Room 432
(479) 968-0492
kmason@atu.edu

Professors:

Bashaw, Black, Mason, Roach, Troboy

Associate Professors:

Bean, Cochran, S. Jones, Walton

Assistant Professors:

Batch

Specific objectives of the program are to provide students who select the management and marketing major with the following abilities:

1. Effectively apply technology as a problem-solving tool in management and marketing contexts.
2. Critically evaluate management and marketing problems.
3. Identify and evaluate ethical issues related to management and marketing problems.
4. Effectively communicate.
5. Proficiency in the foundation principles of management and marketing.

Management and Marketing

Curriculum in Management and Marketing

Degree Completion Plan Beginning in Fall Semester					
Freshman		Sophomore			
Fall	Spring	Fall	Spring		
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>ACCT 2003</u> ^T	3 <u>ACCT 2013</u> ^T		3
<u>BUAD 1111</u> ^T	1 <u>MATH 2223</u> ^T	3 <u>ECON 2003</u> ^T	3 <u>ECON 2013</u> ^T		3
Elective	5 <u>SPH 2173</u> ^T	3 <u>BDA 2003</u>	3 Science with Lab ^{1,T}		4
<u>BUAD 2003</u> ^T	3 Elective	6 <u>BLAW 2033</u> ^T	3 <u>BUAD 2053</u> ^T		3
<u>MATH 1113</u> ^{2,T}	3	Science with Lab ^{1,T}	4 <u>Fine Arts & Humanities</u> ^{1,T}		3
Total Hours	15	Total Hours	15	Total Hours	16
Junior		Senior			
Fall	Spring	Fall	Spring		
<u>MGMT 3003</u>	3 <u>MGMT 3103</u>	3 MGMT/MKT Elective ³	3 MGMT/MKT Elective ³		3
<u>MKT 3043</u>	3 <u>FIN 3063</u>	3 MGMT/MKT Elective ³	3 MGMT/MKT Elective ³		3
<u>ECON 3003</u>	3 <u>ACCT 3063</u> or <u>ACCT 4023</u>	3 <u>MGMT 4013</u>	3 <u>MGMT 4083</u>		3
<u>U.S. History/Government</u> ^{1,T}	3 MGMT/MKT Elective ³	3 Elective	6 Elective		1
<u>BUAD 3023</u>	3 Elective	3	<u>Fine Arts & Humanities</u> ^{1,T}		3
Total Hours	15	Total Hours	15	Total Hours	13
Degree Completion Plan Beginning in Spring Semester					
Freshman		Sophomore			

Spring		Fall		Spring		Fall	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>ACCT 2003</u> ^T	3	<u>ACCT 2013</u> ^T	3
Elective	5	<u>MATH 2223</u> ^{2,T}	3	<u>ECON 2003</u> ^T	3	<u>ECON 2013</u> ^T	3
<u>BUAD 1111</u> ^T	1	<u>SPH 2173</u> ^T	3	<u>BDA 2003</u>	3	Science with Lab ^{1,T}	4
<u>BUAD 2003</u> ^T	3	Elective	6	<u>BLAW 2033</u> ^T	3	<u>BUAD 2053</u> ^T	3
<u>MATH 1113</u> ^{2,T}	3			Science with Lab ^{1,T}	4	<u>Fine Arts & Humanities</u> ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	16
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>MGMT 3003</u>	3	<u>MGMT 3103</u>	3	MGMT/MKT Elective ³	3	MGMT/MKT Elective ³	3
<u>MKT 3043</u>	3	<u>FIN 3063</u>	3	MGMT/MKT Elective ³	3	MGMT/MKT Elective ³	3
<u>ECON 3003</u>	3	<u>ACCT 3063</u> or <u>ACCT 4023</u>	3	<u>MGMT 4013</u>	3	<u>MGMT 4083</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	MGMT/MKT Elective ³	3	Elective	6	Elective	1
<u>BUAD 3023</u>	3	Elective	3			<u>Fine Arts & Humanities</u> ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students who have two years of high school algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in MATH 2223, Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required. Students considering graduate school are advised to use free elective hours to take MATH 2914.

³The 15 hours of Management and Marketing electives must include six hours of Marketing electives, six hours of Management electives with the remaining three hours from either a management or a marketing elective. Only three hours of management/marketing internship will apply to this requirement.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Entrepreneurship Concentration

Curriculum in Management and Marketing Entrepreneurship Concentration

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>ACCT 2003</u> ^T	3	<u>ACCT 2013</u> ^T	3
Elective	5	Elective	6	<u>ECON 2003</u> ^T	3	<u>ECON 2013</u> ^T	3
<u>BUAD 1111</u> ^T	1	<u>SPH 2173</u> ^T	3	<u>BDA 2003</u>	3	Science with Lab ^{1,T}	4
<u>BUAD 2003</u> ^T	3	<u>MATH 2223</u> ^{2,T}	3	<u>BLAW 2033</u> ^T	3	<u>BUAD 2053</u> ^T	3
<u>MATH 1113</u> ^{2,T}	3			Science with Lab ^{1,T}	4	<u>Fine Arts & Humanities</u> ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	16
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>MGMT 3003</u>	3	<u>MGMT 3103</u>	3	<u>MGMT 4053</u>	3	<u>MGMT 4063</u>	3
<u>MKT 3043</u>	3	<u>FIN 3063</u>	3	Market Strategy elective ³	3	Behavioral Elective ⁴	3

<u>ECON 3003</u>	3	<u>ACCT 3063</u> or <u>ACCT 4023</u>	3	<u>MGMT 4013</u>	3	<u>MGMT 4083</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>MKT 4153</u>	3	Elective	6	Elective	1
<u>BUAD 3023</u>	3	Elective	3			<u>Fine Arts & Humanities</u> ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>ACCT 2003</u> ^T	3 <u>ACCT 2013</u> ^T
Elective	5 Elective	6 <u>ECON 2003</u> ^T	3 <u>ECON 2013</u> ^T
<u>BUAD 1111</u> ^T	1 <u>SPH 2173</u> ^T	3 <u>BDA 2003</u>	3 Science with Lab ^{1,T}
<u>BUAD 2003</u> ^T	3 <u>MATH 2223</u> ^{2,T}	3 <u>BLAW 2033</u> ^T	3 <u>BUAD 2053</u> ^T
<u>MATH 1113</u> ^{2,T}	3	Science with Lab ^{1,T}	4 <u>Fine Arts & Humanities</u> ^{1,T}
Total Hours	15	Total Hours	16
Junior		Senior	
Spring	Fall	Spring	Fall
<u>MGMT 3003</u>	3 <u>MGMT 3103</u>	3 <u>MGMT 4063</u>	3 Market Strategy elective ³
<u>MKT 3043</u>	3 <u>FIN 3063</u>	3 <u>MKT 4153</u>	3 Behavioral elective ⁴
<u>ECON 3003</u>	3 <u>ACCT 3063</u> or <u>ACCT 4023</u>	3 <u>MGMT 4013</u>	3 <u>MGMT 4083</u>
<u>U.S. History/Government</u> ^{1,T}	3 <u>MGMT 4053</u>	3 Elective	6 Elective
<u>BUAD 3023</u>	3 Elective	3	<u>Fine Arts & Humanities</u> ^{1,T}
Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in “[General Education Requirements](#)”.

²Students who have two years of high school algebra with a grade of “C” or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in MATH 2223, Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required. Students considering graduate school are advised to use free elective hours to take MATH 2914.

³Three hour Market Strategy elective must be taken from: MKT 4143 (Marketing Management) or MKT 3163 (Consumer Behavior) or MGMT 4113 (E-Commerce).

⁴Three hour Behavioral elective must be taken from: MGMT 4023 (Human Resource Mgmt) or MGMT 4093 (Human Behavior) or MGMT 4213 (leadership) or MGMT 4223 (Leadership in Film, Hist, Lit.).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

International Business Concentration

Curriculum in Management and Marketing International Business Concentration

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>ACCT 2003</u> ^T	3 <u>ACCT 2013</u> ^T
Elective	5 Elective	6 <u>ECON 2003</u> ^T	3 <u>ECON 2013</u> ^T
<u>BUAD 1111</u> ^T	1 <u>SPH 2173</u> ^T	3 <u>BDA 2003</u>	3 Foreign Lang
<u>BUAD 2003</u> ^T	3 <u>MATH 2223</u> ^{2,T}	3 <u>BLAW 2033</u> ^T	3 <u>BUAD 2053</u> ^T
<u>MATH 1113</u> ^{2,T}	3	Foreign Lang	4 <u>Fine Arts & Humanities</u> ^{1,T}
Total Hours	15	Total Hours	16

Junior		Senior	
Fall	Spring	Fall	Spring
<u>MGMT 3003</u>	3	<u>MGMT 3103</u>	3
<u>MKT 3043</u>	3	<u>FIN 3063</u>	3
<u>ECON 3003</u>	3	<u>ACCT 3063</u> or <u>ACCT 4023</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	Science with Lab ^{1,T}	4
<u>BUAD 3023</u>	3	<u>ECON 4093</u>	3
Total Hours	15	Total Hours	16

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3	<u>ACCT 2003</u> ^T	3
Elective	5	<u>ECON 2003</u> ^T	3
<u>BUAD 1111</u> ^T	1	<u>BDA 2003</u>	3
<u>BUAD 2003</u> ^T	3	<u>BLAW 2033</u> ^T	3
<u>MATH 1113</u> ^{2,T}	3	Foreign Lang	4
Total Hours	15	Total Hours	16

Junior		Senior	
Spring	Fall	Spring	Fall
<u>MGMT 3003</u>	3	<u>MGMT 3103</u>	3
<u>MKT 3043</u>	3	<u>FIN 3063</u>	3
<u>ECON 3003</u>	3	<u>ACCT 3063</u> or <u>ACCT 4023</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	Science with Lab ^{1,T}	4
<u>BUAD 3023</u>	3	<u>MKT 4093</u>	3
Total Hours	15	Total Hours	16

¹See appropriate alternatives or substitutions in ["General Education Requirements"](#).

²Students who have two years of high school algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in [MATH 2223](#), Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required. Students considering graduate school are advised to use free elective hours to take [MATH 2914](#).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Management Concentration

Curriculum in Management and Marketing Management Concentration

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3
Elective	5	<u>ACCT 2003</u> ^T	3
<u>BUAD 1111</u> ^T	1	<u>ECON 2003</u> ^T	3
<u>BUAD 2003</u> ^T	3	<u>BDA 2003</u>	3
<u>MATH 1113</u> ^{2,T}	3	<u>BLAW 2033</u> ^T	3
		Science with Lab ^{1,T}	4

Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	16
Junior		Senior		Senior		Senior	
Fall		Spring		Fall		Spring	
MGMT 3003	3	MGMT 3103	3	Behavioral Elective ³	6	MGMT 3113 or MGMT 4203	3
MKT 3043	3	FIN 3063	3	Elective	6	Behavioral Elective ³	3
ECON 3003	3	ACCT 3063 or ACCT 4023	3	MGMT 4013	3	MGMT 4083	3
U.S. History/Government ^{1,T}	3	MGMT 3123	3			Elective	1
BUAD 3023	3	Elective	3			Fine Arts & Humanities ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore			
Spring		Fall		Spring	Fall
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ACCT 2003 ^T	3
Elective	5	Elective	6	ECON 2003 ^T	3
BUAD 1111 ^T	1	SPH 2173 ^T	3	BDA 2003	3
BUAD 2003 ^T	3	MATH 2223 ^{2,T}	3	BLAW 2033 ^T	3
MATH 1113 ^{2,T}	3			Science with Lab ^{1,T}	4
Total Hours	15	Total Hours	15	Total Hours	16
Junior		Senior		Senior	
Spring		Fall		Spring	Fall
MGMT 3003	3	MGMT 3103	3	MGMT 3123	3
MKT 3043	3	FIN 3063	3	MGMT 3113 or MGMT 4203	3
ECON 3003	3	ACCT 3063 or ACCT 4023	3	MGMT 4013	3
U.S. History/Government ^{1,T}	3	Behavioral Electives ³	3	Elective	6
BUAD 3023	3	Elective	3		
Total Hours	15	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students who have two years of high school algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in [MATH 2223](#), Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required. Students considering graduate school are advised to use free elective hours to take [MATH 2914](#).

³Nine hours Behavioral elective must be taken from: [MGMT 4023](#) (Human Resource Mgmt) or [MGMT 4093](#) (Human Behavior) or [MGMT 4213](#) (leadership) or [MGMT 4223](#) (Leadership in Film, Hist, Lit.)

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Marketing Concentration

Curriculum in Management and Marketing Marketing Concentration

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall		Fall	Spring
	Spring		

ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ACCT 2003 ^T	3	ACCT 2013 ^T	3
Elective	5	Elective	6	ECON 2003 ^T	3	ECON 2013 ^T	3
BUAD 1111 ^T	1	SPH 2173 ^T	3	BDA 2003	3	Science with Lab ^{1,T}	4
BUAD 2003 ^T	3	MATH 2223 ^{2,T}	3	BLAW 2033 ^T	3	BUAD 2053 ^T	3
MATH 1113 ^{2,T}	3			Science with Lab ^{1,T}	4	Fine Arts & Humanities ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	16
Junior				Senior			
Fall		Spring		Fall		Spring	
MGMT 3003	3	MGMT 3103	3	MKT 4153	3	MKT Electives (3000-4000 level)	3
MKT 3043	3	FIN 3063	3	MKT 4143	3	MGMT or MKT Electives (3000-4000 level)	3
ECON 3003	3	ACCT 3063 or ACCT 4023	3	MGMT 4013	3	MGMT 4083	3
U.S. History/Government ^{1,T}	3	MKT 3163	3	Elective	6	Elective	1
BUAD 3023	3	Elective	3			Fine Arts & Humanities ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ACCT 2003 ^T	3	ACCT 2013 ^T	3
Elective	5	Elective	6	ECON 2003 ^T	3	ECON 2013 ^T	3
BUAD 1111 ^T	1	SPH 2173 ^T	3	BDA 2003	3	Science with Lab ^{1,T}	4
BUAD 2003 ^T	3	MATH 2223 ^{2,T}	3	BLAW 2033 ^T	3	BUAD 2053 ^T	3
MATH 1113 ^{2,T}	3			Science with Lab ^{1,T}	4	Fine Arts & Humanities ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	16
Junior				Senior			
Spring		Fall		Spring		Fall	
MGMT 3003	3	MGMT 3103	3	MKT 3163	3	MKT Elective (3000-4000 level)	3
MKT 3043	3	FIN 3063	3	MKT 4153	3	MGMT or MKT Elective (3000-4000 level)	3
ECON 3003	3	ACCT 3063 or ACCT 4023	3	MGMT 4013	3	MGMT 4083	3
U.S. History/Government ^{1,T}	3	MKT 4143	3	Elective	6	Elective	1
BUAD 3023	3	Elective	3			Fine Arts & Humanities ^{1,T}	3
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students who have two years of high school algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in [MATH 2223](#), Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required. Students considering graduate school are advised to use free elective hours to take [MATH 2914](#).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Business

The minor in Business is available to students who wish to add to their knowledge of business for personal edification or for professional purposes, but not open to College of Business majors. **Please note that for non-business majors, no**

more than 30 hours of courses offered by the College of Business may be counted toward completion of degree requirements.

BUAD 1111
BUAD 2003 or COMS 1003
ACCT 2003
ECON 2003*
BLAW 2033
MGMT 3003**
MKT 3043**

*for many majors ECON 2003 can be used to satisfy 3 hours of the general education social science requirement.

**in order to take the upper division (3000-4000 level) MKT and MGMT courses, the student must have completed 54 hours including all 2000 level courses listed above, have a cumulative GPA of at least 2.0 and permission from the Dean of Business

College of Education

The College of Education provides guidance and professional courses for the teacher candidate who plans to teach in early childhood, middle level, and secondary schools. The teacher education program is accredited by the National Council for Accreditation of Teacher Education (NCATE).

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Teacher candidates who plan to teach physical education, early childhood, or middle level must enroll in the College of Education. Those who elect to prepare for teaching in other fields must enroll in schools appropriate to their interests in teaching.

For the freshman or sophomore teacher candidate who has not selected a major or specific teaching level or area, the College recommends enrollment in the undeclared program (see "Undecided Study"). In addition to taking the required general education courses, teacher candidates in this program are encouraged to take such electives as will provide them a good liberal education and help select a major field. Advisors in this program are selected to provide guidance to undecided teacher candidates.

In making a decision to enter the teaching profession, teacher candidates should seriously consider the demands which this choice entails. Among these are scholarship and intellectual curiosity; an interest in children and young people, and an understanding of their interests, problems, and development; a thorough understanding of the principles and skills employed by effective teachers; and an interest in and understanding of the role of the school in our society.

Teacher candidates who elect the professional program in teacher education will complete their study in at least two stages. See the appropriate catalog section for the requirements for specific programs. Some courses in the area of specialization should also be completed. **Admission to Arkansas Tech University is a prerequisite to, but separate from, admission to teacher education.** Declaration of a major in one of the University's teacher education programs is also a prerequisite to making formal application for admission to teacher education. Even though admission to Tech and declaration of a teaching major are necessary conditions for admission to teacher education, they are not the only requirements. Other criteria are listed in the section below.

Admission & Retention in Teacher Education at Tech

Professional programs are composed of courses and experiences designed to complete the undergraduate stage of professional preparation for teaching. Admission is by application to the Admission and Retention Committee of the Teacher Education Council. Before a teacher candidate may enroll in professional education courses at the upper division level (the required 3000 and 4000 level professional education courses), he or she must be formally admitted to teacher education at Tech. Application forms may be obtained from the office of the Dean of the College of Education (Crabaugh 204) or the office of the Director of Teacher Education Student Services (Crabaugh 109).

To be admitted to programs in secondary education, teacher candidates must have two assigned advisors, one from the College of Education and one from the department representing their teaching concentration, have the approval of both advisors, satisfactorily complete the pre-admission requirements, have a cumulative grade point average of 2.50 on all college work completed including transfer work, and submit a plan of study approved by both advisors. An early childhood education or middle level education major will have one advisor from the Department of Curriculum and Instruction.

Admission to teacher education will be recommended by the academic advisors and determined by the Admission and Retention Committee based on the following considerations: completion of English composition courses, an oral communication course, a college-level mathematics course, and the appropriate introductory education course with grades of "C" or higher, and completion of the Praxis I (PPST) with scores equal to or greater than the scores determined by the Arkansas Department of Education. Other factors which reflect professional competence, including moral and emotional stability, physical and mental health, intellectual curiosity, use of English, social awareness, and professional interest will be considered by the Admission and Retention Committee. Formal screening and subsequent admission into teacher education and the monitoring of satisfactory progress in the teacher preparation program represent institutional obligations to the teaching profession, the schools served by and working with the University's programs, and the agencies that approve and accredit teacher education programs. Once admitted to teacher education, the teacher candidate must maintain satisfactory progress throughout the completion of the teacher education program according to the standards cited above and any additional program standards in effect or lose eligibility to continue in that program. Course sequences and prerequisites will be followed carefully.

Admission Decision Appeals

A formal appeal of a decision to deny admission to teacher education may be made to the Admission and Retention Committee of the Teacher Education Council. Instructions and forms for such appeals are available in the Office of the Dean of Education. **An appeal should be based upon exceptional or extenuating circumstances and/or other pertinent information not previously available or considered.** A formal appeal must be submitted in writing to the Dean who will transmit it to the Committee. The Committee's decision may be appealed in writing to the Dean of the

College of Education regarding admission to teacher education. If the appeal is not resolved at this level the teacher candidate may appeal to the Vice President for Academic Affairs whose decision will be final.

Criteria for Internship

Internship is normally expected to be the last requirement completed in teacher education programs. Internship requires a full-time academic and professional commitment. Internship requires the teacher candidate to devote one semester of the senior year to full-time internship in an approved school. The teacher candidate should plan the work of internship to provide one semester free of activities and responsibility which would interfere with the requirements of the professional semester. The teacher candidate is expected to follow the direction of the Field-Based Teacher, the School Principal, the Arkansas Tech University Supervisors, and the Arkansas Tech University Director of Teacher Education Student Services.

Admission requirements for secondary education include completion of all professional education courses, a minimum grade of “C” in all courses required for the teaching field and professional education, and a 2.50 grade point average in the courses required for the teaching field with a cumulative grade point average of 2.50 on all work attempted, including transfer work. Admission requirements for early childhood education and middle level education include no grade below “C” in any course work with a cumulative grade point average of 2.50 on all work attempted, including transfer work. Internship admission requires a Praxis II Specialty Area score which meets or exceeds the minimum scores established by the Arkansas Department of Education.

Appeals of Internship Eligibility Decisions

Decisions made regarding a teacher candidate’s eligibility and readiness for placement or retention in internship may be appealed in writing to the Admission and Retention Committee of the Teacher Education Council. Such an appeal should be submitted to the Dean of the College of Education, who will transmit it to the Committee. The Committee’s decision regarding an appeal may be appealed in writing to the Dean. If the appeal is not resolved at that level, the teacher candidate may appeal to the Vice President for Academic Affairs whose decision is final. Appeals should be based on exceptional or extenuating circumstances and/or pertinent information not previously available or considered.

Internship Application Process

TEACHER CANDIDATE MUST SUBMIT A FORMAL APPLICATION FOR ADMISSION TO INTERNSHIP. APPLICANTS FOR THE SPRING SEMESTER MUST SUBMIT THE APPLICATION PRIOR TO OCTOBER 1 OF THE FALL SEMESTER. APPLICANTS FOR THE FALL SEMESTER MUST SUBMIT THE APPLICATION PRIOR TO MARCH 1 OF THE SPRING SEMESTER. FAILURE TO MEET THESE DEADLINES COULD RESULT IN THE DELAY OF INTERNSHIP FOR A SEMESTER. PRIORITY IN INTERNSHIP PLACEMENT WILL BE GIVEN TO THOSE TEACHER CANDIDATES MEETING THE DEADLINES AND PREREGISTERING FOR INTERNSHIP FOR THE GIVEN SEMESTER.

Application forms for internship may be obtained during scheduled group meetings with the Director of Teacher Education Student Services.

Early Childhood candidates may accomplish internship by enrolling in [ECED 4915](#). Middle level candidates may accomplish internship by enrolling in [MLED 4912](#). Secondary candidates may accomplish internship by enrolling in [SEED 4809](#) or 4909 and [SEED 4503](#), and any other courses required in their teaching concentration. **Assignment of the teacher candidate to an approved site for internship is the responsibility of the College of Education based on policies developed by the College of Education. Placements are chosen to provide the best educational experience for the teacher candidate.**

APPLICANTS FOR ADMISSION TO STAGE II OR INTERNSHIP MUST MEET THE REQUIREMENTS THAT ARE IN EFFECT AT THE TIME OF APPLICATION. THE REQUIREMENTS FOR ADMISSION AND RETENTION AS PUBLISHED IN THE POLICIES AND PROCEDURES HANDBOOK OF THE ARKANSAS TECH UNIVERSITY TEACHER EDUCATION PROGRAM WILL SUPERSEDE CATALOG INFORMATION.

The College of Education offers programs of study leading to baccalaureate degrees as listed below:

Bachelor of Science

[Early Childhood Education](#)

[Middle Level Education](#)

[Health and Physical Education](#) including a [Wellness and Fitness Program](#) option

Secondary Education (teacher licensure programs in [agriculture](#), [life/earth science](#), [business technology](#), [mathematics](#), [physical/earth science](#))¹

Bachelor of Arts

Secondary Education (teacher licensure programs in [art](#), [creative writing](#), [English](#), [foreign language](#), [social studies](#), [music](#), and [speech](#))¹

¹Teacher candidate preparing to teach in secondary schools must complete the courses required for specialization in a teaching concentration. These are listed in departmental sections of the catalog and recommended curricula patterns, including teacher licensure requirements, set forth in the College of Education section of this catalog.

Transfer Students

Applicability of transfer credit to meet specific degree requirements depends on the major selected by the transfer student. The transfer student should review the Transfer Credit policy in the Admission section of this catalog and meet with their academic advisor to determine final transfer credit eligibility for the selected program of study.

Requirements for Teacher Licensure

All candidates for licensure must successfully complete the Praxis II, *Principles of Learning and Teaching*, except those taking a Praxis II subject assessment that contains a pedagogy section. These are math, life/earth science, physical/earth science, Spanish and English. Teacher candidates must also successfully complete the appropriate specialty area exams of Praxis II. Scores must be sent directly from the Educational Testing Service to Arkansas Tech University.

Praxis Series

Please refer to Item E under the "[Requirements for Baccalaureate Degrees](#)".

The Congress of the United States, in its reauthorization of Title of the Higher Education Act of 1998, enacted accountability measures requiring institutions of higher education to report data to the public on the pass-rates of teacher candidates on assessments required for state licensure. The pass-rates for 2008-2009 for Arkansas Tech University teacher candidates were 100 percent on the assessments of basic skills, professional knowledge, and academic content knowledge. The average pass-rates for programs in the state were also 100 percent.

Teacher candidates spend an average of 405 hours in the classroom during internship; and the average faculty-teacher candidate ratio in supervised practice teaching is 5.0. All programs are approved by the Arkansas Department of Education. The teacher education program at Tech is not designated by the State of Arkansas as a low-performing program.

Department of Curriculum and Instruction

The Department of Curriculum and Instruction offers programs leading to a degree and/or licensure in three areas: Early Childhood Education (Pre-K- Grade Four), Middle Level Education (Grade Four-Grade Eight), and Secondary Education (Grade Seven-Grade Twelve).

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Early Childhood Education¹

The Early Childhood Education program meets the needs of today's children building on the common core of knowledge, performance, and dispositions needed for early childhood professional educators.

There are three stages in the Bachelor of Science Early Childhood Degree program. Teacher candidates begin the first stage by taking general education requirements and are introduced to basic concepts, theory and practices in early childhood courses.

During the second stage teacher candidates complete general education requirements and take courses specifically designed to prepare them for the profession. Admission requires minimum scores as determined by the Arkansas State Board of Education on the Praxis I; a minimum cumulative grade point average of 2.50 on all college work attempted with no grade below "C" (including work from other colleges and universities); and beginning the development of a portfolio which must include a philosophy and documented evidence of observations of young children.

During the third stage of the early childhood program, teacher candidates are placed in an appropriate environment for their internship. Admission to this stage requires a minimum grade point average of 2.50 with no grade below "C" in all courses and a satisfactory score on the licensure exam as established by the Arkansas Department of Education. Teacher candidates should make application for admission to the internship for the spring semester by October 1, or the fall semester by March 1.

¹Information regarding the Associate Degree in Early Childhood Education is listed under the College of Professional Studies and Community Outreach.

Middle Level Education

The Middle Childhood/Early Adolescence degree exists to provide quality preservice educational programs and services in preparation for teaching grades 4-8. The program prepares and nurtures interdisciplinary teachers who reflect content knowledge as well as facilitate creative talents.

The program is designed around a conceptual framework which organizes learning expectations and experience into manageable discipline-specific strands including: professional and pedagogical knowledge, knowledge of the student, developmentally appropriate and effective practices, knowledge of integrated disciplines, global and cultural perspectives, technology, and a liberal arts and science background. The teaching candidate entering the middle-level program must complete an integrated math/science or English/social studies curriculum.

The first stage of the middle level program is a pre-professional program and admission to this stage does not constitute approval for admission to the professional program in teacher education. Stage II is the professional stage of the preparation program. Teacher candidates must satisfactorily complete the requirements of the first stage, have a cumulative grade point average of 2.50 on all coursework, completion of English composition courses, an oral communication course, a college-level mathematics course, and completion of [MLED 2003](#) with grades of "C" or higher. Competence in oral and written grammar will be assessed. Teacher candidates must submit scores on Praxis I (PPST) that meet or exceed the levels established by the Arkansas Department of Education.

After satisfying all of the requirements at this level, the teacher candidate will apply for internship. Admission to internship requires completion of all professional education courses, senior standing, satisfactory completion of all prerequisites listed in the course descriptions, a minimum grade of "C" in all courses with a cumulative grade point average of 2.50, and the minimum score on the licensure examination as required by the Arkansas Department of Education.

Teacher candidates should make application for admission to the internship for the spring semester by October 1 or for the fall semester by March 1. Teacher candidates must present scores on the appropriate licensure examination as directed by the Arkansas Department of Education.

Professors:

Bell, Carter, Clary, Paxton,
Rollans, Sheets, D. Underwood,
Womack

Associate Professors:

Costley, V. C. Smith, Thomason,
Walsh, C. Zimmer

Assistant Professors:

Callaway, Ibrahim, Lawson,
Leggett, Pepper, Stephenson

Secondary Education

The secondary education curriculum is designed to prepare teacher candidates for teaching careers at the junior high school and senior high school levels. Teacher candidates completing the NCATE approved program in secondary education will qualify for licensure in an area appropriate to their major field. The program recognizes three important components in the education of a prospective teacher: a strong general education, an in-depth knowledge in a selected teaching field, and a knowledge of the school, adolescents, and the teaching-learning process.

The unit's conceptual framework is Professionals for the Future. The framework emphasizes the concepts of teacher as instructional leader, reflective decision-maker, and problem solver who has knowledge of the teacher candidate, a strong content and pedagogical knowledge, a commitment to their profession, and a desire to continue their development.

Teacher candidates preparing to teach in secondary schools must complete the courses required for specialization in the appropriate curriculum, see "[Curriculum in Secondary Education](#)".

Teacher candidates desiring entrance to the teacher education program in secondary education should apply for admission to Stage II during the second semester of their sophomore year. Teacher candidates who are admitted to Stage II of the teacher education program for secondary teachers enroll jointly in course work for their degree specialization and course work in the Department of Curriculum and Instruction. For example, teacher candidates planning to teach mathematics enroll in the math department and the Department of Curriculum and Instruction. The requirements of both departments must be satisfied.

Teacher candidates should make application for admission to internship for the spring semester by October 1 and for the fall semester by March 1. Teacher candidates must present scores on the Praxis II specialty area test equal to or greater than the state-established level in order to be approved for internship. Any questions concerning internship placement should be addressed to the Director of Teacher Education Student Services located in Crabaugh 109.

Professional requirements for the secondary education program include [SEED 2002](#); [SEED 3702](#), [SEED 4503](#), [SEED 4556](#), and [SEED 4809](#) or [SEED 4909](#). [SEED 2002](#), [SEED 3702](#) and [SEED 4556](#) must be completed prior to internship. Secondary teacher education candidates enrolling in internship should register for [SEED 4503](#) and either [SEED 4809](#) or [SEED 4909](#). In addition to the course requirements specified, the state also requires that the applicants for an Arkansas teaching license supply a copy of his/her score on the Praxis II (Principles of Learning and Teaching, if applicable and Specialty Area Tests) and the criminal background check as required by Act 1310. The Specialty Area Test is required for entry into internship. The Principles of Learning and Teaching, if applicable, may be completed during internship (see "[Requirements for Teacher Licensure](#)").

Internship

Internship is the capstone of the teacher preparation program. Placements are the responsibility of the College of Education and are selected on the basis of providing the best experience available for the teacher candidate.

The assignments require full day experiences for the semester. Teacher candidates should make plans with these requirements in mind.

Praxis II

All candidates for licensure must meet minimum scores as required by Arkansas Department of Education on the Principles of Learning and Teaching, if applicable and the appropriate specialty area test.

Please refer to "[Requirements for Baccalaureate Degrees](#)".

Curriculum in Early Childhood Education

Bachelor of Science Degree

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore					
Fall	Spring	Fall	Spring	Fall	Spring		
MATH 1113 ^{3,T}	3	MATH 2033 ^T	3	MATH 2043 ^T	3	ECED 3023 ^{2,T}	3
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	U.S. History/Government ^{1,T}	3	ECED 3033 ²	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	Social Sciences ^{1,T}	3	MATH 3033 ²	3

<u>Social Sciences</u> ^{1,T}	3	<u>PE 2513</u> ^T	3	Elective ^T	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>HLED 1513</u> ^T	3	<u>SPH 2003</u> ^T	3	<u>ECED 2001</u> ^{2,T}	1	<u>EDMD 3013</u> ^T	3
				<u>ECED 2002</u> ^{2,T}	2		
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	15
Junior		Senior		Senior			
Fall		Spring		Fall		Spring	
<u>ECED 3043</u> ²	3	<u>ECED 3162</u> ²	2	<u>ECED 3262</u> ²	2	<u>ECED 4915</u>	15
<u>ECED 3053</u> ²	3	<u>ECED 3172</u> ²	2	<u>ECED 3272</u> ²	2		
<u>HIST 2153</u> ^T	3	<u>ECED 3183</u> ²	3	<u>ECED 3283</u> ²	3		
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>ECED 3192</u> ²	2	<u>ECED 3292</u> ²	2		
<u>BIOL 3213</u> or <u>PHSC 3213</u>	3	<u>ECED 3113</u> ²	3	<u>ECED 3213</u> ²	3		
		<u>ECED 3122</u> ²	2	<u>ECED 3222</u> ²	2		
Total Hours	15	Total Hours	14	Total Hours	14	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore		Sophomore			
Spring		Fall	Spring		Fall		
<u>MATH 1113</u> ^{3,T}	3	<u>MATH 2033</u> ^T	3	<u>MATH 2043</u> ^T	3	<u>ECED 3023</u> ^{2,T}	3
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3	<u>ECED 3033</u> ²	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	<u>Social Sciences</u> ^{1,T}	3	<u>MATH 3033</u> ²	3
<u>Social Sciences</u> ^T	3	<u>PE 2513</u> ^T	3	Elective ^T	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>HLED 1513</u> ^T	3	<u>SPH 2003</u> ^T	3	<u>ECED 2001</u> ^{2,T}	1	<u>EDMD 3013</u> ^T	3
				<u>ECED 2002</u> ^{2,T}	2		
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	15
Junior		Senior		Senior			
Spring		Fall	Spring		Fall		
<u>ECED 3043</u> ²	3	<u>ECED 3162</u> ²	2	<u>ECED 3262</u> ²	2	<u>ECED 4915</u>	15
<u>ECED 3053</u> ²	3	<u>ECED 3172</u> ²	2	<u>ECED 3272</u> ²	2		
<u>HIST 2153</u> ^T	3	<u>ECED 3183</u> ²	3	<u>ECED 3283</u> ²	3		
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>ECED 3192</u> ²	2	<u>ECED 3292</u> ²	2		
<u>BIOL 3213</u> or <u>PHSC 3213</u>	3	<u>ECED 3113</u> ²	3	<u>ECED 3213</u> ²	3		
		<u>ECED 3122</u> ²	2	<u>ECED 3222</u> ²	2		
Total Hours	15	Total Hours	14	Total Hours	14	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Must be taken concurrently.

³Any higher level Mathematics course may be substituted for MATH 1113, College Algebra

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Middle Level Education

Curriculum in Mathematics and Science Licensure

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore		Sophomore	
Fall		Spring	Fall		Spring
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>HIST 1903</u> , <u>HIST 2003</u> or <u>HIST 2013</u> ^T	3
<u>HIST 1503</u> ^T	3	<u>HIST 1513</u> ^T	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
				MATH Elective ^{2,T}	3

<u>BIOL 1114</u> or <u>BIOL 2124</u> ^T	4	<u>BIOL 2134</u> ^T	4	<u>MATH 2163</u> ^T	3	<u>SPH 2003</u> ^T	3
<u>MATH 1113</u> ^{3,T}	3	<u>MATH 1203</u> ^T	3	<u>MATH 2033</u> ^T	3	<u>CHEM 1113</u> ^T and <u>CHEM 1111</u> ^T	4
<u>POLS 2003</u> ^T	3	<u>MLED 2003</u> ^T	3	Electives	2	<u>EDMD 3013</u> ^T	3
Total Hours	16	Total Hours	16	Total Hours	14	Total Hours	16
Junior		Senior					
Fall		Spring		Fall		Spring	
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>PHYS 1114</u> ^T	4	<u>BIOL 3223/PHSC 3223</u>	3	<u>MLED 4912</u>	12
<u>MLED 3102</u>	2	<u>MATH 2243</u>	3	<u>MATH 3033</u>	3		
<u>MLED 3012</u>	2	<u>MLED 3041</u>	1	<u>ENGL 4703</u>	3		
<u>MLED 3024</u>	4	<u>MLED 3062</u>	2	<u>MLED 4004</u>	4		
<u>MLED 3034</u>	4	<u>MLED 3072</u>	2	<u>MLED 4023</u>	3		
		<u>HIST 2153</u> ^T	3				
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	12

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore					
Spring		Spring		Spring		Fall	
<u>SPH 2003</u> ^T	3	<u>ENGL 1023</u> ^{1,T}	3	<u>EDMD 3013</u> ^T	3	<u>MLED 3012</u>	2
<u>ENGL 1013</u> ^{1,T}	3	<u>HIST 1503</u> ^T	3	<u>HIST 1903</u> , <u>HIST 2003</u> or <u>HIST 2013</u> ^T	3	<u>MLED 3024</u>	4
<u>BIOL 1114</u> or <u>BIOL 2124</u> ^T	4	<u>MATH 1203</u> ^T	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>MLED 3034</u>	4
<u>MLED 2003</u>	3	<u>BIOL 2134</u> ^T	4	Electives	2	<u>MLED 3102</u>	2
<u>MATH 1113</u> ^{3,T}	3	<u>HIST 1513</u> ^T	3	<u>MATH 2033</u> ^T	3	<u>MATH 2043</u> ^T	3
Total Hours	16	Total Hours	16	Total Hours	14	Total Hours	15
Junior		Senior					
Spring		Spring		Spring		Fall	
<u>MLED 3041</u>	1	<u>MLED 4004</u>	4	<u>PHYS 1114</u> ^T	4	<u>MLED 4912</u>	12
<u>MLED 3062</u>	2	<u>MLED 4023</u>	3	<u>HIST 2153</u> ^T	3		
<u>MLED 3072</u>	2	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>MATH 2243</u>	3		
<u>CHEM 1113</u> ^T and <u>CHEM 1111</u> ^T	4	<u>MATH 2163</u> ^T	3	<u>BIOL 3223/PHSC 3223</u>	3		
MATH Elective ^{2,T}	3	<u>MATH 3033</u>	3	<u>ENGL 4703</u>	3		
<u>POLS 2003</u> ^T	3						
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirement](#)".

² MATH electives may not be MATH 1003 or MATH 1103.

³Any higher level Mathematics course may be substituted for MATH 1113, College Algebra.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Middle Level Education

Curriculum in English Language Arts/Social Studies Licensure

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore					
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>HIST 2003</u> ^T	3	<u>HIST 2013</u> ^T	3
<u>HIST 1503</u> ^T	3	<u>HIST 1513</u> ^T	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
BIOL with Lab ^{1,T}	4	PHSC with Lab ^{1,T}	4	Elective ^T	4	<u>POLS 2003</u> ^T	3

MATH 1113 ^{2,T}	3	MATH 2033 ^T	3	SPH 2003 ^T	3	ENGL 2043 ^T	3
GEOG 2013 ^T	3	MLED 2003 ^T	3	ECON 2003 ^T	3	EDMD 3013 ^T	3
Total Hours	16	Total Hours	16	Total Hours	16	Total Hours	15
Junior		Senior					
Fall		Spring		Fall		Spring	
ENGL 4703	3	ENGL 2063	3	ENGL 3013	3	MLED 4912	12
MLED 3012	2	HIST/POLS Elective ^T	6	ENGL 3323	3		
MLED 3024	4	MLED 3041	1	HIST 2153 ^T	3		
MLED 3034	4	MLED 3062	2	MLED 4004	4		
MLED 3102	2	MLED 3072	2	MLED 4023	3		
Total Hours	15	Total Hours	14	Total Hours	16	Total Hours	12

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore					
Spring		Fall		Spring		Fall	
MLED 2003 ^T	3	PHSC with Lab ^{1,T}	4	EDMD 3013 ^T	3	MLED 3012	2
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	GEOG 2013 ^T	3	MLED 3024	4
MATH 1113 ^{2,T}	3	HIST 1503 ^T	3	HIST 2003 ^T	3	MLED 3034	4
SPH 2003 ^T	3	HIST 1513 ^T	3	Fine Arts & Humanities ^{1,T}	6	MLED 3102	2
BIOL with Lab ^{1,T}	4	MATH 2033 ^T	3			HIST 2013 ^T	3
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	15
Junior		Senior					
Spring		Fall		Spring		Fall	
ENGL 2063	3	MLED 4004	4	HIST/POLS Elective ^T	3	MLED 4912	12
MLED 3041	1	MLED 4023	3	ENGL 3013	3		
MLED 3062	2	ECON 2003 ^T	3	HIST 2153 ^T	3		
MLED 3072	2	HIST/POLS Elective ^T	3	Elective ^T	4		
POLS 2003 ^T	3	ENGL 3323	3				
ENGL 2043 ^T	3						
ENGL 4703	3						
Total Hours	17	Total Hours	16	Total Hours	13	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Any higher level Mathematics course may be substituted for [MATH 1113](#), College Algebra

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Secondary Education

Curriculum in Agricultural Education For Teacher Licensure²

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore					
Fall		Spring		Fall		Spring	
ENGL 1013 ¹	3	ENGL 1023 ¹	3	SPH 2003	3	AGME 1003	3
BIOL 1014	4	COMS 1003	3	CHEM 1113	3	Fine Arts & Humanities ¹	3
MATH 1113	3	AGBU 1013	3	CHEM 1111	1	AGEG 3203	3
Elective	1	AGPS 1024	4	SEED 2002	2	AGAS 1014	4
AGED 1001	1	U.S. History/Government ¹	3	AGPS 3044	4	Social Sciences ¹	3
AGED 1012	2			MATH 2163	3		
Total Hours	14	Total Hours	16	Total Hours	16	Total Hours	16

Junior		Senior	
Fall	Spring	Fall	Spring
<u>Fine Arts & Humanities</u> ¹	3 <u>AGAS 2083</u>	3 <u>SEED 4556</u>	6 <u>SEED 4503</u>
<u>SEED 3552</u>	2 <u>SEED 3702</u>	2 <u>AGED 4003</u>	3 <u>SEED 4909</u>
<u>Social Sciences</u> ¹	3 <u>AGED 3003</u>	3 <u>AGED 3013</u>	3
<u>SEED 4052</u>	2 <u>AGME 3013</u>	3 <u>AGED 4013</u>	3
<u>AGME 3023</u>	3 <u>AGME 3003</u>	3	
<u>AGPM 3104</u>	4		
Total Hours	17 Total Hours	14 Total Hours	15 Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ¹	3 <u>ENGL 1023</u> ¹	3 <u>AGME 1003</u>	3 <u>SPH 2003</u>
<u>COMS 1003</u>	3 <u>BIOL 1014</u>	4 <u>Fine Arts & Humanities</u> ¹	3 <u>SEED 2002</u>
Elective	1 <u>MATH 1113</u>	3 <u>AGEG 3203</u>	3 <u>AGAS 1014</u>
<u>CHEM 1113</u>	3 <u>AGBU 1013</u>	3 <u>AGPS 1024</u>	4 <u>AGPS 3044</u>
<u>CHEM 1111</u>	1 <u>AGED 1012</u>	2 <u>Social Sciences</u> ¹	3 <u>MATH 2163</u>
<u>U.S. History/Government</u> ¹	3 <u>AGED 1001</u>	1	
Total Hours	14 Total Hours	16 Total Hours	16 Total Hours
Junior		Senior	
Spring	Fall	Spring	Fall
<u>AGED 3003</u>	3 <u>AGED 4003</u>	3 <u>SEED 4556</u>	6 <u>SEED 4503</u>
<u>SEED 3702</u>	2 <u>SEED 3552</u>	2 <u>Social Sciences</u> ¹	3 <u>SEED 4909</u>
<u>AGPM 3104</u>	4 <u>AGED 3013</u>	3 <u>Fine Arts & Humanities</u> ¹	3
<u>AGME 3013</u>	3 <u>SEED 4052</u>	2	
<u>AGME 3003</u>	3 <u>AGED 4013</u>	3	
<u>AGAS 2083</u>	3 <u>AGME 3023</u>	3	
Total Hours	18 Total Hours	16 Total Hours	12 Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Art for Teacher Licensure

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>ART 2113</u> ^T	3 <u>ART 2303</u> ^T
<u>Social Sciences</u> ^{1,T}	3 <u>ART 2103</u> ^T	3 <u>ART 2413</u> ^T	3 Art Elective (3000-4000)
Mathematics ^{1,T}	3 Science with Lab ^{1,T}	4 Science with Lab ^{1,T}	4 <u>ART 2123</u> ^T
<u>ART 1303</u> ^T	3 <u>ART 1503</u>	3 <u>SEED 2002</u>	2 <u>SPH 2003</u>
<u>ART 1403</u> ^T	3 <u>ART 2403</u> ^T	3 <u>Fine Arts & Humanities</u> ^{1,T}	3 <u>U.S. History/Government</u> ^{1,T}
<u>TECH 1001</u>	1		
Total Hours	16 Total Hours	16 Total Hours	15 Total Hours

Junior

Senior

Fall		Spring		Fall		Spring	
<u>ART 3603</u>	3	<u>ART 4823</u>	3	<u>ART 3013</u>	3	<u>ART 4701</u>	1
<u>ART 3003</u>	3	Art Elective (3000-4000)	3	<u>ART 3803</u>	3	<u>SEED 4503</u>	3
<u>ART 2703</u>	3	<u>Social Sciences</u> ^{1,T}	3	Art Elective (3000-4000)	3	<u>SEED 4809</u>	9
<u>ART 3403</u> or <u>ART 3533</u>	3	<u>SEED 3552</u>	2	<u>SEED 4556</u>	6		
Art History (3000-4000) 2	3	<u>SEED 4052</u>	2				
		<u>SEED 3702</u>	2				
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Art history electives ART 3113, ART 3123, ART 3133, ART 3143, ART 4103, ART 4113, ART 4123, ART 4723. ART 4823 can be used toward this requirement.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Business Education For Teacher Licensure³

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3
<u>BUAD 1023</u> ^T	3	<u>ACCT 2003</u> ^T	3
<u>BUAD 1001</u> ^T	1	<u>ECON 2003</u> ^T	3
<u>BUAD 2003</u> ^T	3	<u>BDA 2003</u>	3
<u>MATH 1113</u> ^{2,T}	3	Science with Lab ^{1,T}	4
<u>SPH 2003</u> or <u>SPH 2173</u> ^T	3	<u>SEED 2002</u>	2
Total Hours	16	Total Hours	15
Junior		Senior	
Fall	Spring	Fall	Spring
<u>MGMT 3003</u>	3	Science with Lab ^{1,T}	4
<u>MKT 3043</u>	3	<u>VOBE 4701</u>	1
<u>SEED 3552</u>	2	<u>MGMT 3103</u>	3
<u>ANTH 2003</u>	3	<u>SEED 4556</u>	6
<u>BUAD 3023</u>	3	<u>MGMT 4013</u>	3
<u>SEED 3702</u>	2	<u>SEED 4809/SEED 4909</u>	9
Total Hours	16	Total Hours	14

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3
<u>BUAD 2043</u> ^T	3	<u>ACCT 2003</u> ^T	3
<u>BUAD 1001</u> ^T	1	<u>ECON 2003</u> ^T	3
<u>BUAD 2003</u> ^T	3	<u>BDA 2003</u>	3
<u>MATH 1113</u> ^{2,T}	3	Science with Lab ^{1,T}	4
<u>SPH 2003</u> , or <u>SPH 2173</u> ^T	3	<u>SEED 2002</u>	2
Total Hours	16	Total Hours	15

Junior Spring		Fall		Senior Spring		Fall	
MGMT 3003	3	BUAD 3023	3	Science with Lab ^{1,T}	4	VOBE 4701	1
MKT 3043	3	MGMT 3103	3	SEED 4556	6	SEED 4503	3
SEED 3552	2	Fine Arts & Humanities ^{1,T}	3	MGMT 4013	3	SEED 4809/SEED 4909	9
ANTH 2003	3	SEED 4052	2	MGMT 4083	3		
VOBE 4023	3	FIN 3063	3				
SEED 3702	2						
Total Hours	16	Total Hours	14	Total Hours	16	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students who have two years of high school algebra with a grade of "C" or better and a math ACT score of 22 or above may omit College Algebra and enroll directly in [MATH 2223](#), Quantitative Business Analysis. If omitted, an additional 3 hours of electives will be required.

³For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Creative Writing For Teacher Licensure⁴

Degree Completion Plan Beginning in Fall Semester

Freshman Fall		Spring		Sophomore Fall		Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ENGL 2043 ^T	3	ENGL 2003 ^T	3
Social Sciences ^{1,T}	3	Social Sciences ^{1,T}	3	U.S. History/Government ^{1,T}	3	ENGL 3043	3
Mathematics ^{1,T}	3	Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	ENGL 3023	3
TECH 1001	1	SPH 2003 ^T	3	ENGL 2063	3	Fine Arts & Humanities ^{1,T}	3
Beg. Foreign Lang I ^{2,T}	4	Beg. Foreign Lang II ^{2,T}	4	Elective ^T	3	SEED 2002	2
Total Hours	14	Total Hours	17	Total Hours	16	Total Hours	14

Junior Fall		Spring		Senior Fall		Spring	
ENGL 3313 ^T	3	ENGL 3323 ^T	3	ENGL 4093	3	SEED 4503	3
ENGL 3413	3	ENGL 3423	3	ENGL Elective ³	3	SEED 4909	9
ENGL 3093	3	ENGL 3083	3	ENGL 4733	3		
SEED 4052	2	ENGL 3013	3	SEED 4556	6		
SEED 3702 or EDMD 3013	2-3	ENGL 4813	3				
Elective	2-1						
SEED 3552	2						
Total Hours	17	Total Hours	15	Total Hours	15	Total Hours	12

Degree Completion Plan Beginning in Spring Semester

Freshman Spring		Fall		Sophomore Spring		Fall	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	ENGL 2043 ^T	3	ENGL 3313 ^T	3
Social Sciences ^{1,T}	3	Social Sciences ^{1,T}	3	U.S. History/Government ^{1,T}	3	ENGL 3023	3
Mathematics ^{1,T}	3	Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	ENGL 2003 ^T	3
TECH 1001	1	Beg. Foreign Lang I ^{2,T}	4	Beg. Foreign Lang II ^{2,T}	4	Elective ^T	3
Fine Arts & Humanities ^{1,T}	3	SPH 2003 ^T	3	ENGL 2063	3	ENGL 3043	3

					<u>SEED 2002</u>	2	
Total Hours	13	Total Hours	17	Total Hours	17	Total Hours	17
Junior				Senior			
Spring		Fall		Spring	Fall		
<u>ENGL 3323</u> ^T	3	<u>ENGL 3413</u>	3	<u>ENGL 3423</u>	3	<u>SEED 4503</u>	3
<u>ENGL 3013</u>	3	<u>ENGL 3093</u>	3	ENGL Elective ³	3	<u>SEED 4909</u>	9
<u>ENGL 3083</u>	3	<u>ENGL 4093</u>	3	<u>ENGL 4813</u>	3		
Elective	2-1	<u>ENGL 4733</u>	3	<u>SEED 4556</u>	6		
<u>SEED 3702</u> or <u>EDMD 3013</u>	2-3	<u>SEED 3552</u>	2				
		<u>SEED 4052</u>	2				
Total Hours	13	Total Hours	16	Total Hours	15	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²All minimum college hours (at least three semesters) should be in one language. Students with previous study in a foreign language should refer to Foreign Language Advanced Placement and Credit under Credit by Examination.

³Any 2-4000 level English courses excluding [ENGL 2003](#), [ENGL 2013](#), [ENGL 2173](#), [ENGL 2881](#), and [ENGL 4881](#)-4.

⁴For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Curriculum in English For Teacher Licensure⁵

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>ENGL 2063</u>	3 <u>ENGL 3023</u>
<u>Social Sciences</u> ^{1,T}	3 <u>Social Sciences</u> ^{1,T}	3 <u>U.S. History/Government</u> ^{1,T}	3 Elective ^{4,T}
<u>Mathematics</u> ^{1,T}	3 Science with Lab ^{1,T}	4 Science with Lab ^{1,T}	4 English Elective ³
Elective ^{4,T}	1 Beg. Foreign Lang.II ^{2,T}	4 <u>ENGL 2003</u> ^T	3 <u>Fine Arts & Humanities</u> ^{1,T}
Beg. Foreign Lang I ^{2,T}	4 <u>SPH 2003</u> ^T	3 Elective ^{4,T}	3 <u>SEED 2002</u>
Total Hours	14	Total Hours	16
Total Hours	14	Total Hours	14

Junior		Senior	
Fall	Spring	Fall	Spring
<u>ENGL 3313</u> ^T	3 <u>ENGL 3323</u> ^T	3 <u>ENGL 4013</u>	3 <u>SEED 4503</u>
<u>ENGL 3413</u>	3 <u>ENGL 3423</u>	3 ENGL (3000-4000)	3 <u>SEED 4909</u>
English Elective ³	6 <u>ENGL 3013</u>	3 <u>ENGL 4733</u>	3
<u>SEED 3702</u> or <u>EDMD 3013</u>	2-3 <u>SEED 3552</u>	2 <u>SEED 4556</u>	6
Elective ⁴	2-1 <u>SEED 4052</u>	2	
	Elective ⁴	3	
Total Hours	16	Total Hours	15
Total Hours	16	Total Hours	12

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>ENGL 2063</u>	3 <u>ENGL 3023</u>
<u>Social Sciences</u> ^{1,T}	3 <u>Social Sciences</u> ^{1,T}	3 <u>ENGL 2003</u> ^T	3 <u>U.S. History/Government</u> ^{1,T}

<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	Elective ^{4,T}	3
Elective ^{4,T}	4	Beg. Foreign Lang I ^{2,T}	4	Beg. Foreign Lang II ^{2,T}	4	<u>ENGL 3313</u> ^T	3
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>SPH 2003</u> ^T	3			<u>SEED 2002</u>	2
Total Hours	16	Total Hours	17	Total Hours	14	Total Hours	14
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>ENGL 3323</u> ^T	3	<u>ENGL 3413</u>	3	<u>ENGL 3423</u>	3	<u>SEED 4503</u>	3
<u>ENGL 3013</u>	3	<u>ENGL 4013</u>	3	English Elective ³	3	<u>SEED 4909</u>	9
English Elective ³	6	<u>ENGL 4733</u>	3	English (3000-4000)	3		
<u>SEED 3702</u> or <u>EDMD 3013</u>	2-3	<u>SEED 3552</u>	2	<u>SEED 4556</u>	6		
Elective ⁴	2-1	<u>SEED 4052</u>	2				
		Elective ⁴	3				
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²All minimum college hours (at least three semesters) should be in one language. Students with previous study in a foreign language should refer to Foreign Language Advanced Placement and Credit under Credit by Examination

³Any 2-4000 level English courses excluding [ENGL 2003](#), [ENGL 2013](#), [ENGL 2173](#), [ENGL 2881](#), and [ENGL 4881-4](#).

⁴At least 40 of the 120 hours required for graduation must be earned in 3000-4000 level courses.

⁵For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Curriculum in Foreign Language with Concentration in Spanish For Teacher Licensure^{2,4,5}

Suggested Sequence of Courses

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ¹	3	<u>ENGL 1023</u> ¹	3	<u>SPAN 3003</u>	3	<u>SPAN 3013</u>	3
<u>SPAN 2014</u> ^{2,3}	4	<u>SPAN 2024</u> ^{2,3}	4	<u>Fine Arts & Humanities</u> ¹	3	<u>SPAN 3123</u>	3
<u>Mathematics</u> ¹	3	<u>Social Sciences</u> ¹	3	Electives	3	<u>SEED 2002</u>	2
<u>Social Sciences</u> ¹	3	<u>Fine Arts & Humanities</u> ¹	3	<u>SPH 2003</u>	3	<u>SEED 3702</u> or <u>EDMD 3013</u>	2-3
<u>TECH 1001</u>	1	Science with Lab ¹	4	Science with Lab ¹	4	Electives	2-3
						<u>U.S. History/Government</u> ¹	3
Total Hours	14	Total Hours	17	Total Hours	16	Total Hours	16
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>SPAN 3133</u>	3	<u>SPAN 3143</u> or <u>SPAN 3163</u>	3	<u>SPAN 4003</u>	3	<u>SPAN 4701</u>	1
<u>SPAN 3213</u>	3	<u>SPAN 4023</u>	3	<u>SPAN 4703</u>	3	<u>SEED 4503</u>	3
<u>SPAN 4203</u>	3	<u>SPAN 4223</u>	3	<u>SEED 4556</u>	6	<u>SEED 4909</u>	9
<u>SPAN 4213</u>	3	<u>SEED 4052</u>	2	Electives	3		
<u>SEED 3552</u>	2	Electives	3				
Elective	1						
Total Hours	15	Total Hours	14	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Students with previous study in a foreign language should refer to Foreign Language Advanced Placement and Credit under Credit by Examination.

³Lab attendance is required for beginning and intermediate foreign language courses.

⁴For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

⁵An oral proficiency level of Advanced Low, as demonstrated by a score on the ACTFL Oral Proficiency Interview, will be required of all foreign language education majors for admission to the internship.

Curriculum in Mathematics For Teacher Licensure²

Degree Completion Plan Beginning in Fall Semester							
Freshman						Sophomore	
Fall		Spring		Fall		Spring	
MATH 2914 ^T	4	MATH 2924 ^T	4	MATH 2934 ^T	4	MATH 3243	3
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	MATH 3003	3	MATH 3123	3
Elective ^T	4	MATH 2703	3	COMS 2803 ^T	4	ANTH 2003 ^T	3
U.S. History/Government ^{1,T}	3	HLED 1513 ^T	3	PHYS 2114 ^T	4	PHYS 2124 ^T	4
TECH 1001	1	Social Sciences ^{1,T}	3	SEED 2002	2	Fine Arts & Humanities ^{1,T}	3
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours	16
Junior						Senior	
Fall		Spring		Fall		Spring	
MATH 3153	3	MATH 3203	3	MATH 4772	2	SEED 4503	3
Fine Arts & Humanities ^{1,T}	3	MATH 4123	3	MATH 4033	3	SEED 4909	9
SPH 2003 ^T	3	Elective ^T	3	MATH 4113	3		
MATH 4003	3	SEED 3702	2	SEED 4556	6		
SEED 3552	2	MATH 4703	3	MATH 4971	1		
SEED 4052	2						
Total Hours	16	Total Hours	14	Total Hours	15	Total Hours	12
Degree Completion Plan Beginning in Spring Semester							
Freshman						Sophomore	
Spring		Fall		Spring		Fall	
MATH 2914 ^T	4	MATH 2924	4	MATH 2934	4	MATH 3243	3
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	COMS 2803 ^T	3	MATH 3003	3
Elective ^T	4	HLED 1513 ^T	3	MATH 2703	3	PHYS 2114 ^T	4
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,T}	3	SEED 2002	2	Fine Arts & Humanities ^{1,T}	3
TECH 1001	1	Fine Arts & Humanities ^{1,T}	3	ANTH 2003 ^T	3	Elective ^T	3
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	16
Junior						Senior	
Spring		Fall		Spring		Fall	
MATH 3123	3	MATH 4113	3	MATH 3203	3	SEED 4503	3
MATH 4703	3	MATH 4033	3	MATH 4123	3	SEED 4909	9
PHYS 2124 ^T	4	MATH 4003	3	SEED 4556	6		
MATH 4772	2	SEED 3702	2	MATH 3153	3		
SEED 3552	2	SPH 2003 ^T	3	MATH 4971	1		
SEED 4052	2						

Total Hours 16 Total Hours 14 Total Hours 16 Total Hours 12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Curriculum in Music Education For Teacher Licensure⁷ (Instrumental Music Option)

Suggested Sequence of Courses

Freshman		Sophomore		Junior		Senior	
Fall		Spring		Fall		Spring	
MUS 1000	0	MUS 1000	0	MUS 1000	0	MUS 1000	0
MUS 1__2 ^{8,T}	2	MUS 1__2 ^{8,T}	2	MUS 1__2 ⁸	2	MUS 1__2 ^{8,T}	2
MUS 1441 or MUS 1201 ^{2,T}	1	MUS 1441 or MUS 1201 ^{2,T}	1	MUS 1441 or MUS 1201 ^{2,T}	1	MUS 1441 or MUS 1201 ^{2,T}	1
MUS 1501 ^T	1	MUS 1501 ^T	1	MUS 1501 ^T	1	Piano Exit Exam	0
MUS 1713 ^T	3	MUS 1723	3	MUS 2713	3	MUS 1501 ^T	1
MUS 1731 ^T	1	MUS 1741	1	MUS 2731	1	MUS 2723	3
MUS 2441 ^T	1	ENGL 1023 ^{1,T}	3	MUS 3401	3	MUS 2741	1
ENGL 1013 ^{1,T}	3	Science with Lab ^{1,T}	4	Social Sciences ^{1,T}	3	MUS 3481	1
Mathematics ^{1,T}	3		3	SPH 2003 ^T	3	Sophomore Barrier Jury ³	0
						Science with Lab ^{1,T}	4
						SEED 2002 ^T	2
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15
Senior 9th Semester		Senior 9th Semester		Senior 9th Semester		Senior 9th Semester	
Fall		Spring		Fall		Spring	
SEED 4503	3	MUS 3000	0	MUS 3__2 ⁸	2	SEED 4556 ⁵	6
SEED 4809 ^{6,7}	9	MUS 3__2 ⁸	2	MUS 3501	1	MUS 4281	1
Total Hours	12	MUS 3501	1	MUS 3692	2	MUS 4701	1
		MUS 3773	3	MUS 3853 ⁴	3	MUS 4001	1
		MUS 3802	2	SEED 3552 ⁵	2	Fine Arts & Humanities ^{1,T}	3
		MUS 3421	1	SEED 4052 ⁵	2		2
		MUS 4712	2	Fine Arts & Humanities ^{1,T}	1		3
		MUS 4461	1		2		2
		Social Sciences ^{1,T}	3		3		3
Total Hours	15	U.S. History/Government ^{1,T}	3	Total Hours	15	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Piano ([MUS 1441](#) or [MUS 1201](#)) to be taken each semester until successful completion of Piano Exit Exam.

³Required for enrollment in upper-level applied study for two-hour credit and for completion for all music degrees

⁴Prerequisite: successful completion of Piano Exit Exam.

⁵Prerequisite: admission to Stage II.

⁶See admission policy and procedure.

⁷For licensure, students must pass the Praxis II music specialty and Principles of Learning and Teaching exam. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

⁸See course descriptions for the appropriate applied music course number.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Music Education for Teacher Licensure⁷ (Vocal Music Option)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>MUS 1000</u>	0	<u>MUS 1000</u>	0
<u>MUS 1232</u> ^T	2	<u>MUS 1232</u> ^T	2
<u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1	<u>MUS 1441</u> or <u>MUS 1201</u> ^{2,T}	1
<u>MUS 1571</u> , <u>MUS 1581</u> or <u>MUS 1681</u> ^T	1	<u>MUS 1571</u> , <u>MUS 1581</u> or <u>MUS 1681</u> ^T	1
<u>MUS 1713</u> ^T	3	<u>MUS 2241</u>	1
<u>MUS 1731</u> ^T	1	<u>MUS 2713</u>	3
<u>ENGL 1013</u> ^{1,T}	3	<u>MUS 2731</u>	1
<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4
		<u>Social Sciences</u> ^{1,T}	4
			2
			Science with Lab ^{1,T}
			<u>SEED 2002</u>
			Sophomore. Barrier Jury ³
Total Hours	14	Total Hours	15
Junior		Senior	
Fall	Spring	Fall	Spring
<u>MUS 3000</u>	0	<u>MUS 3232</u>	2
<u>MUS 3232</u>	2	<u>MUS 3571</u> , <u>MUS 3581</u> or <u>MUS 3681</u>	1
<u>MUS 3571</u> , <u>MUS 3581</u> or <u>MUS 3681</u>	1	<u>MUS 3692</u>	2
<u>MUS 3773</u>	3	<u>MUS 3853</u> ⁴	3
<u>MUS 4712</u>	2	<u>MUS 3441</u>	1
<u>MUS 3802</u>	2	<u>SEED 3552</u> ⁵	2
<u>MUS 3821</u>	1	<u>SEED 4052</u> ⁵	2
<u>MUS 3702</u>	2	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>SPH 2003</u> ^T	3		3
Total Hours	16	Total Hours	16
Senior 9th Semester			13
Fall			
<u>SEED 4503</u>	3		
<u>SEED 4809</u> ^{6,7}	9		
Total Hours	12		

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Piano (MUS 1441 or MUS 1201) to be taken each semester until successful completion of Piano Exit Exam.

³Required for enrollment in upper-level applied study for two-hour credit and for completion for all music degrees.

⁴Prerequisite: successful completion of Piano Exit Exam.

⁵Prerequisite: admission to Stage II.

⁶See admission policy and procedure.

⁷For licensure, students must pass the Praxis II specialty and Principles of Learning and Teaching exam. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Music Education For Teacher Licensure⁵ (Keyboard Vocal Music Option)

Suggested Sequence of Courses

Freshman		Sophomore		Junior		Senior	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
MUS 1000	0	MUS 1000	0	MUS 1000	0	MUS 1000	0
MUS 1202^T	2	MUS 1202^T	2	MUS 1202^T	2	MUS 1202^T	2
MUS 1571 , MUS 1581 or MUS 1681^T	1	MUS 1571 , MUS 1581 or MUS 1681^T	1	MUS 1571 , MUS 1581 or MUS 1681^T	1	MUS 1571 , MUS 1581 or MUS 1681^T	1
MUS 1713^T	3	MUS 1723	3	MUS 1231^T	1	MUS 1231^T	1
MUS 1731^T	1	MUS 1741	1	MUS 2713	3	MUS 2201	1
MUS 2441^T	1	MUS 1231	1	MUS 2731	1	MUS 2723	3
ENGL 1013^{1,T}	3	MUS 2201	1	Science with Lab ^{1,T}	4	MUS 2741	1
Mathematics^{1,T}	3	ENGL 1023^{1,T} Science with Lab ^{1,T}	3	Social Sciences^{1,T}	3	SPH 2003^T	3
			4			SEED 2002^T	2
						Sophomore Barrier Jury ²	0
Total Hours	14	Total Hours	16	Total Hours	15	Total Hours	14
Junior		Senior		Senior 9th Semester			
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
MUS 3000	0	MUS 3000	0	MUS 3692	2	MUS 4001	1
MUS 3202	2	MUS 3202	2	MUS 3202	1	MUS 3762	2
MUS 3571 , MUS 3581 or MUS 3681	1	MUS 3571 , MUS 3581 or MUS 3681	1	MUS 3571 , MUS 3581 or MUS 3681	2	MUS 3442	2
MUS 1231	1	MUS 3783	3	MUS 3853	3	SEED 4556⁴	6
MUS 3773	3	MUS 3702	2	MUS 3441	1	MUS 4701	1
MUS 4712	2	MUS 4821	1	SEED 3552⁴	2		
MUS 3802	2	U.S. History/Government^{1,T}	3	SEED 4052⁴	2		
MUS 3821	1	Fine Arts & Humanities^{1,T}	3	Fine Arts & Humanities^{1,T}	3		
Social Sciences^{1,T}	3						
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	12
SEED 4503	3						
SEED 4809^{4,5}	9						
Total Hours	12						

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)"

²Required for enrollment in upper-level applied study for two-hour credit and for completion for all music degrees.

³Prerequisite: admission to Stage II.

⁴See admission policy and procedure.

⁵For licensure, students must pass the Praxis II specialty and Principles of Learning and Teaching exam. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Music Education for Teacher Licensure⁴ (Keyboard Instrumental Music Option)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>MUS 1000</u>	0	<u>MUS 1000</u>	0
<u>MUS 1202</u> ^T	2	<u>MUS 1202</u> ^T	2
<u>MUS 1501</u> ^T	1	<u>MUS 1501</u> ^T	1
<u>MUS 1713</u> ^T	3	<u>MUS 2713</u>	3
<u>MUS 1731</u> ^T	1	<u>MUS 2731</u>	1
<u>MUS 2441</u> ^T	1	<u>MUS 3401</u>	1
<u>ENGL 1013</u> ^{1,T}	3	Science with Lab ^{1,T}	4
<u>Mathematics</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3
			Sophomore. Barrier Jury ²
			<u>SEED 2002</u> ^T
Total Hours	14	Total Hours	15
Junior		Senior	
Fall	Spring	Fall	Spring
<u>MUS 3000</u>	0	<u>MUS 3692</u>	2
<u>MUS 3202</u>	2	<u>MUS 3202</u>	1
<u>MUS 3501</u>	1	<u>MUS 3501</u>	2
<u>MUS 3773</u>	3	<u>MUS 3853</u>	3
<u>MUS 3421</u>	1	<u>SEED 3552</u> ³	2
<u>MUS 4712</u>	2	<u>SEED 4052</u>	2
<u>MUS 3802</u>	2	Fine Arts & Humanities ^{>1,T}	3
<u>MUS 3702</u>	2		
<u>Social Sciences</u> ^{1,T}	3		
Total Hours	16	Total Hours	15
Senior 9th Semester			
Fall			
<u>SEED 4503</u>	3		
<u>SEED 4809</u> ^{3,4}	9		
Total Hours	12		

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Required for enrollment in upper-level applied study for two-hour credit and for completion of all music degrees.

³See admission policy and procedure.

⁴For licensure, students must pass the Praxis II specialty and Principles of Learning and Teaching exam. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Life Science and Earth Science For Teacher Licensure²

Suggested Sequence of Courses

Freshman Sophomore

Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ¹	3	<u>ENGL 1023</u> ¹	3	<u>MATH 2163</u>	3	<u>BIOL 3114</u>	4
<u>CHEM 2124</u>	4	<u>BIOL 2124</u> or <u>BIOL 2134</u>	4	<u>BIOL 2124</u> or <u>BIOL 2134</u>	4	<u>PHYS 2024</u>	4
<u>BIOL 1114</u>	4	<u>CHEM 2134</u>	4	<u>GEOL 1014</u>	4	<u>POLS 2003</u>	3
<u>MATH 1113</u> ³	3	<u>HIST 1903</u>	3	<u>PHYS 2014</u>	4	<u>ANTH 2003</u>	3
<u>BIOL 1001</u>	1			<u>SEED 2002</u>	2	<u>Fine Arts & Humanities</u> ¹	3
Total Hours	15	Total Hours	14	Total Hours	17	Total Hours	17
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>PHSC 3053</u>	3	<u>PHSC 3033</u>	3	<u>Fine Arts & Humanities</u> ¹	3	<u>SEED 4503</u>	3
<u>BIOL 3124</u> or <u>BIOL 3174</u>	4	<u>BIOL 3034</u>	4	<u>BIOL 3054</u> or <u>BIOL 4033</u>	3-4	<u>SEED 4909</u>	9
<u>CHEM 3254</u>	4	<u>BIOL 3252</u>	2	<u>BIOL 3233</u>	3	<u>BIOL 4701</u>	1
<u>MATH 2243</u>	3	<u>SPH 2003</u>	3	<u>BIOL 4891</u>	1		
<u>SEED 3702</u>	2	<u>SEED 3552</u>	2	<u>SEED 4556</u>	6		
		<u>SEED 4052</u>	2				
Total Hours	16	Total Hours	16	Total Hours	16-17	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

³Any higher level Mathematics course may be substituted for [MATH 1113](#), College Algebra.

Curriculum in Physical Science and Earth Science For Teacher Licensure²

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>PHSC 1001</u>	1	<u>BIOL 1114</u>	4	<u>MATH 2924</u>	4	<u>GEOL 2024</u>	4
<u>ENGL 1013</u> ¹	3	<u>ENGL 1023</u> ¹	3	<u>PHYS 2014</u> or <u>PHYS 2114</u> and <u>PHYS 2000</u>	4	<u>PHYS 2024</u> or <u>PHYS 2124</u> and <u>PHYS 2010</u>	4
<u>MATH 1914</u>	4	<u>MATH 2914</u>	4	<u>CHEM 3254</u>	4	<u>CHEM 3313</u>	3
<u>CHEM 2124</u>	4	<u>CHEM 2134</u>	4	<u>SEED 2002</u>	2	<u>SPH 2003</u>	3
<u>GEOL 1014</u>	4			<u>HIST 2003</u> or <u>HIST 2013</u>	3		
Total Hours	16	Total Hours	15	Total Hours	17	Total Hours	14
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>Social Sciences/Fine Arts/Humanities</u> ¹	3	<u>POLS 2003</u>	3	<u>SEED 3552</u>	2	<u>SEED 4909</u>	9
<u>PHSC 3053</u>	3	<u>PHSC 3033</u>	3	<u>SEED 4052</u>	2	<u>SEED 4503</u>	3
<u>GEOL 3153</u>	3	<u>COMS 2003</u> or <u>COMS 2803</u>	3	<u>SEED 4556</u>	6	<u>PHSC 4701</u>	1
<u>PHYS 3213</u>	3	<u>Fine Arts & Humanities</u> ¹	3	<u>PHSC 3233</u>	3		
<u>Fine Arts & Humanities</u> ¹	3	<u>SEED 3702</u>	2	<u>ANTH 2003</u>	3		
		<u>PHSC 3252</u>	2				
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours	13

Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring		Fall		Spring		Fall	

<u>ENGL 1013</u> ¹	3	<u>GEOL 1014</u>	4	<u>SEED 2002</u>	2	<u>PHYS 2014</u> or <u>PHYS 2114</u> and <u>PHYS 2000</u>	4
<u>MATH 1914</u>	4	<u>ENGL 1023</u> ¹	3	<u>CHEM 2134</u>	4	<u>CHEM 3254</u>	4
<u>Social Sciences/Fine Arts/Humanities</u> ¹	3	<u>MATH 2914</u>	4	<u>MATH 2924</u>	4	<u>SPH 2003</u>	3
<u>BIOL 1114</u>	4	<u>CHEM 2124</u>	4	<u>COMS 2003</u> or <u>COMS 2803</u>	3	<u>HIST 2003</u> or <u>HIST 2013</u>	3
		<u>PHSC 1001</u>	1	<u>GEOL 2024</u>	4	<u>SEED 3702</u>	2
Total Hours	14	Total Hours	16	Total Hours	17	Total Hours	16
Junior		Senior					
Spring		Fall		Spring		Fall	
<u>PHYS 2024</u> or <u>PHYS 2124</u> and <u>PHYS 2010</u>	4	<u>PHSC 3053</u>	3	<u>POLS 2003</u>	3	<u>SEED 4909</u>	9
<u>CHEM 3313</u>	3	<u>GEOL 3153</u>	3	<u>PHSC 3033</u>	3	<u>SEED 4503</u>	3
<u>ANTH 2003</u>	3	<u>PHSC 3233</u>	3	<u>SEED 3552</u>	2	<u>PHSC 4701</u>	1
<u>PHSC 3252</u>	2	<u>Fine Arts & Humanities</u> ¹	3	<u>SEED 4052</u>	2		
<u>Fine Arts & Humanities</u> ¹	3	<u>PHYS 3213</u>	3	<u>SEED 4556</u>	6		
Total Hours	15	Total Hours	15	Total Hours	16	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²For licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

Curriculum in Social Studies For Teacher Licensure²

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>HIST 2003</u> ^T	3	<u>HIST 2013</u> ^T	3
<u>HIST 1503</u> ^T	3	<u>HIST 1513</u> ^T	3	<u>POLS 2003</u> ^T	3	HIST/POLS Elective	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	<u>PSY 2003</u> ^T	3	<u>ECON 2003</u> ^T	3
<u>Mathematics</u> ^{1,T}	3	Elective	2	<u>ANTH 2003</u> ^T	3	GEOG Elective ^T	3
<u>SEED 2002</u>	2	<u>SOC 1003</u> ^T	3	<u>GEOG 2013</u> ^T	3	<u>SPH 2003</u> or <u>SPH 2173</u>	3
						<u>SEED 3702</u>	2
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	17
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>POLS 3033</u>	3	<u>HIST 4153</u>	3	<u>HIST/POLS 4963</u>	3	<u>SEED 4909</u>	9
HIST/POLS Elective (3000-4000 level)	6	HIST/POLS Elective (3000-4000 level)	3	HIST/POLS Elective (3000-4000 level)	3	<u>SEED 4503</u>	3
<u>HIST 4714</u>	4	<u>SEED 3552</u>	2	<u>SEED 4556</u>	6		
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>SEED 4052</u>	2	Elective	2		
		<u>Fine Arts & Humanities</u> ^{1,T}	3				
		<u>ECON 2013</u> ^T	3				
Total Hours	16	Total Hours	16	Total Hours	14	Total Hours	12
Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>HIST 2003</u> ^T	3	<u>HIST 2013</u> ^T	3

<u>HIST 1503</u> ^T	3	<u>HIST 1513</u> ^T	3	<u>POLS 2003</u> ^T	3	HIST/POLS Elective	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	<u>PSY 2003</u> ^T	3	<u>ECON 2003</u> ^T	3
<u>Mathematics</u> ^{1,T}	3	<u>SOC 1003</u> ^T	3	<u>ANTH 2003</u> ^T	3	GEOG Elective ^T	3
<u>SEED 2002</u>	2	Elective	2	<u>GEOG 2013</u> ^T	2	<u>SPH 2003</u> or <u>SPH 2173</u>	3
						<u>SEED 3702</u>	2
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	17
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>HIST 4153</u>	3	<u>HIST/POLS 4963</u>	3	<u>SEED 4909</u>	9
HIST/POLS Elective (3000-4000 level)	6	HIST/POLS Elective (3000-4000 level)	3	HIST/POLS Elective (3000-4000 level)	3	<u>SEED 4503</u>	3
<u>ECON 2013</u> ^T	3	<u>SEED 3552</u>	2	<u>SEED 4556</u>	2		6
<u>POLS 3033</u> ^T	3	<u>SEED 4052</u>	2	Elective	2		2
		<u>Fine Arts & Humanities</u> ^{1,T}	3				
		<u>HIST 4714</u>	4				
Total Hours	15	Total Hours	17	Total Hours	14	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²For licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Curriculum in Speech For Teacher Licensure²

Suggested Sequence of Courses

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	Elective ^{1,T}	4	<u>SPH 2013</u>	3
<u>U.S. History/Government</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>JOUR 2133</u>	3
<u>Mathematics</u> ^{1,T}	3	Science with Lab ^{1,T}	4	<u>SEED 2002</u>	2	<u>Fine Arts & Humanities</u> ^{1,T}	6
<u>SPH 1003</u>	3	<u>SPH 2003</u> ^T	3	<u>TH 2703</u>	3	<u>SPH 3073</u>	3
Science with Lab ^{1,T}	4	Elective ^{1,T}	3	<u>SPH 2023</u>	3		
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>SPH 3063</u>	3	Elective	6	<u>SPH 3123</u>	3	<u>SPH 4701</u>	1
<u>TH 3513</u>	3	<u>TH 4263</u>	3	<u>SEED 4556</u>	6	<u>SEED 4503</u>	3
<u>SEED 3702</u>	2	<u>SPH 3003</u>	3	<u>TH 4273</u>	3	<u>SEED 4909</u>	9
<u>Social Sciences</u> ^{1,T}	3	<u>TH 3803</u>	3	Elective	3		
<u>SEED 3552</u>	2						
<u>SEED 4052</u>	2						
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²For licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

³Certain electives and social sciences are recommended based on student's emphasis.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Department of Health and Physical Education

The Department of Health and Physical Education has a nationally accredited (NASPE) program that is a part of the College of Education professional preparation program curricula designed to serve the students, faculty and staff of Arkansas Tech University.

Dr. M. Annette Holeyfield, Head
J.W. Hull Physical Education
Building, Room 110
(479) 968-0344
aholeyfield@atu.edu

Following are the NASPE standards:

1. Scientific and Theoretical Knowledge--Physical education teacher candidates know and apply discipline-specific scientific and theoretical concepts critical to the development of physically educated individuals.
2. Skill and Fitness Based Competence--Physical education teacher candidates are physically educated individuals with the knowledge and skills necessary to demonstrate competent movement performance and health enhancing fitness as delineated in the NASPE K-12 Standards.
3. Planning and Implementation--Physical education teacher candidates plan and implement a variety of developmentally appropriate learning experiences and content aligned with local, state, and national standards to develop physically educated individuals.
4. Instructional Delivery and Management--Physical education teacher candidates use effective communication and pedagogical skills and strategies to enhance student engagement and learning.
5. Impact on Student Learning--Physical education teacher candidates utilize assessments and reflection to foster student learning and inform instructional decisions.
6. Professionalism--Physical education teacher candidates demonstrate dispositions essential to becoming effective professionals.

Professors:

Holeyfield, S. Jackson

Associate Professors:

Mayo, Pederson

Assistant Professors:

Hanna, Kirkpatrick, Walters

Instructors:

Bayer, A. Davis, Dawson,

Karleskint, Kelly, Norton,

Pacheco Filho, Reed

The programs in the Department of Health and Physical Education are designed to prepare students for lifelong growth in the physical, intellectual, cultural, emotional and social dimensions. These goals and objectives are met through the qualified faculty's presentation of research-based information, utilizing the latest technology.

The Department of Health and Physical Education offers the following degree tracks:

1. Wellness/Fitness Programs: This track serves students who want to pursue professional preparation in the broad area of Wellness and Fitness Programs. This would include those students who desire to work in clinical based, commercial and/or corporate settings.
2. Health and Physical Education Teacher Licensure: This track serves students who want to teach K-12 Health and Physical Education, with a coaching license.

Driver Education Program

The driver education program has been designed to serve individuals preparing to be driver and traffic education teachers. Additional information about this summer program may be obtained by calling 968-0344.

Curriculum in Health and Physical Education (Including Teacher Licensure Requirements)²

Degree Completion Plan Beginning in Fall Semester							
Freshman		Sophomore					
Fall	Spring	Fall	Spring	Spring			
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	U.S. History/Government ^{1,T}	3	Fine Arts & Humanities ^{1,T}	6
BIOL 1014 ^T	4	PHSC 1004 ^{1,T}	4	PE 2523 ^T	3	Social Sciences ^{1,T}	3
MATH 1113 or higher ^T	3	PE 2111	1	SPH 2003 ^T	3	PE 3051	1
HLED 1513 ^T	3	PE 2513 ^T	3	PE 2653 ^T	3	PE 3661	1
PE 1201	1	Social Sciences ^{1,T}	3	PE 3101	1	PE 3663	3
WS 1002 ^T	2			PE 2101	1	SEED 2002 ^T	2
Total Hours	16	Total Hours	14	Total Hours	14	Total Hours	16
Junior		Senior					
Fall	Spring	Fall	Spring	Spring			

PE 3103	3	PE 3583	3	PE 4203	3	SEED 4503	3
PE 3413	3	PE 3603	3	PE 4523	3	PE 4701	1
PE 3573	3	PE 3512, PE 3522, or PE 3532	2	HLED 4303	3	SEED 4809 ³	9
PE 4033	3	SEED 3552	2	SEED 4556	6		
SEED 3702	2	HLED 3203	3	SEED 4052	2		
HLED 4403 ^T	3	PE 4513	3				
Total Hours	17	Total Hours	16	Total Hours	17	Total Hours	13

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore		Senior		Total Hours		
Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	U.S. History/Government ^{1,T}	3	Fine Arts & Humanities ^{1,T}	6	
BIOL 1014 ^T	4	PHSC 1004 ^{1,T}	4	Social Sciences ^{1,T}	3	PE 2523 ^T	3	
MATH 1113 or higher ^T	3	Social Sciences ^{1,T}	3	SPH 2003 ^T	3	PE 3663	3	
HLED 1513 ^T	3	PE 2513 ^T	3	PE 2653 ^T	3	PE 3661	1	
PE 1201	1	PE 2101	1	SEED 2002 ^T	2	PE 3101	1	
WS 1002 ^T	2			PE 2111	1			
				PE 3051	1			
Total Hours	16	Total Hours	14	Total Hours	16	Total Hours	14	
Junior		Senior		Total Hours		Total Hours		
Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	
PE 3103	3	PE 3583	3	PE 4203	3	SEED 4503	3	
HLED 3203	3	PE 3413	3	PE 3603	3	PE 4701	1	
PE 4513	3	PE 4033	3	PE 3573	3	SEED 4809 ³	9	
SEED 3552	2	PE 4523	3	SEED 4556	6			
SEED 4052	2	HLED 4303	3					
SEED 3702	2	HLED 4403 ^T	3					
PE 3512, PE 3522 or PE 3532	2							
Total Hours	17	Total Hours	18	Total Hours	15	Total Hours	13	

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²For licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning Teaching Tests as determined by the Arkansas Department of Education. For further requirements see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

³Three semester hours of the student teaching requirement must be completed at the elementary or middle school level, below the ninth grade, where the cooperative teacher is certified in Elementary Physical Education OR student must complete a three-semester-hour internship under direct supervision from the staff of the University's Physical Education Department.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Selected Second Teaching Fields

Students are encouraged to meet at least minimal licensure requirements in a second field of teaching in addition to their major field of study.

Licensure requirements in Driver Education are as follows: Hold or be qualified to hold a standard secondary certificate; Driver Education I, two semester hours; Driver Education II, two semester hours; First Aid, two semester hours. Total of 6 semester hours.

Wellness and Fitness Programs Option

There are three levels in the Wellness/Fitness program. Students begin the first level by taking general education requirements and are introduced to basic concepts of the wellness/fitness program in [PE 1201](#), Orientation to Health, Physical Education, and Wellness Science and [WS 1002](#), Physical Wellness and Fitness.

During the second level, students complete general education requirements and take courses specific to the wellness profession. Admission to level two requires completion of [PE 1201](#), [WS 1002](#), [ENGL 1013](#), [ENGL 1023](#), [MATH 1113](#), [BIOL 1014](#), and [SPH 2173](#) with a grade of C or better.

The third level is the internship stage of the program. Admission to this level requires completion of all content area courses (HLED, PE, & WS) with a grade of "C" or better and a cumulative GPA of 2.00 or better.

Curriculum in Health and Physical Education (Wellness and Fitness Programs Option)

Degree Completion Plan Beginning in Fall Semester					
Freshman		Sophomore			
Fall	Spring	Fall	Spring		
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 U.S. History/Government ^{1,T}	3 Fine Arts & Humanities ^{1,T}	6	
BIOL 1014 ^T	4 PHSC 1004 ^{1,T}	4 PE 2513 ^T	3 PE 2861	1	
Elective	1 Social Sciences ^{1,T}	3 PE 2653 ^T	3 PE 3663	3	
MATH 1113 or higher ^T	3 SPH 2173 ^T	3 COMS 1003 or equivalent ^T	3 PE 3661	1	
HLED 1513 ^T	3 WS 1002 ^T	2 WS 2031	1 ECON 2003 ^T	3	
PE 1201	1	WS 2003	3		
Total Hours	15 Total Hours	15 Total Hours	16 Total Hours	14	
Junior		Senior			
Fall	Spring	Fall	Spring		
PE 3573	3 HLED 3203	3 Elective ^T	1 WS 4012	12	
PE 4033	3 WS 2081	1 WS 4013	3		
WS 2043	3 WS 3023	3 WS 4023	3		
WS 2091	1 PE 4103	3 WS 4063	3		
AHS 2013	3 WS 3003	3 HLED 4403 ^T	3		
MGMT 3003	3 WS 4003	3 MKT 3043	3		
Total Hours	16 Total Hours	16 Total Hours	16 Total Hours	12	
Degree Completion Plan Beginning in Spring Semester					
Freshman		Sophomore			
Spring	Fall	Spring	Fall		
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 U.S. History/Government ^{1,T}	3 WS 2031	1	
BIOL 1014 ^T	4 PE 2653 ^T	3 PHSC 1004 ^{1,T}	4 WS 2003	3	
Elective	1 COMS 1003 equivalent ^T	3 PE 2513 ^T	3 Social Sciences ^{1,T}	3	
MATH 1113 or higher ^T	3 SPH 2173 ^T	3 Fine Arts & Humanities ^{1,T}	3 WS 2043	3	
HLED 1513 ^T	3 WS 1002 ^T	2 PE 3663	3 PE 3661	1	
PE 1201	1 PE 2861	1	ECON 2003 ^T	3	
Total Hours	15 Total Hours	15 Total Hours	16 Total Hours	14	
Junior		Senior			
Spring	Fall	Spring	Fall		
PE 3573	3 Fine Arts & Humanities ^{1,T}	3 Elective ^T	1 WS 4012	12	
WS 2091	1 PE 4033	3 MKT 3043	3		
AHS 2013	3 WS 4013	3 WS 4023	3		
HLED 3203	3 WS 2081	1 PE 4103	3		
WS 3023	3 HLED 4403 ^T	3 WS 4003	3		
WS 3003	3 WS 4063	3 MGMT 3003	3		
Total Hours	16 Total Hours	16 Total Hours	16 Total Hours	12	

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

College of Natural and Health Sciences

The College of Natural and Health Sciences is subdivided into four administrative units: the Departments of Biological Science, Mathematics, Nursing, and Physical Science. These departments offer a variety of major programs leading to baccalaureate and associate degrees. The College also serves a special role in providing the principal curricular needs of students seeking to enter professional schools of medicine, dentistry, medical technology, optometry, pharmacy, chiropractic, and others. A secondary service is that of contributing to the general education of those students majoring outside of the College of Natural and Health Sciences.

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Students earning degrees in the College of Natural and Health Sciences are in a particularly enviable position. Their undergraduate education makes them eligible to compete for employment in a variety of professional positions or for entry into graduate school. The College of Natural and Health Sciences offers programs of study leading to baccalaureate and associate degrees as listed below:

Bachelor of Science

Biology with options in:

[General](#)

[Biomedical](#)

[Environmental](#)

Chemistry with options in:

[A.C.S. approved General](#)

[Professional](#)

[Environmental](#)

[Biochemistry](#)

[Engineering Physics](#)

[Fisheries and Wildlife Science](#)

Geology with options in:

[Professional](#)

[Petroleum](#)

[Environmental](#)

[Health Information Management](#)

[Life Science and Earth Science Education](#)

[Mathematics](#)

[Mathematics Education](#)

[Medical Technology](#)

[Nuclear Physics](#)

[Physical Science](#)

[Physical Science and Earth Science Education](#)

[Physics](#)

Bachelor of Science in Nursing

[Nursing](#)

Associate of Applied Science

[Medical Assistant](#)

Environmental Science Options

Three environmental science degree options are available as follows: B.S. in biology-environmental option, B.S. in chemistry-environmental option, and B.S. in geology-environmental option. The student interested in environmental science should choose the program that best suits his or her interest based on background, competencies, and career objectives. Arkansas Tech University's location in the Arkansas River Valley between the Ouachita and Ozark mountains is ideally suited to environmental programs. With the diversity of ecosystems and geological formations found, the area serves as an outdoor laboratory encompassing habitats that range from wetland and riparian ecosystems to upland coniferous and mountaintop deciduous forests. Swamps, streams, rivers, and lakes dot the landscape. Geological formations ranging in age from Ordovician to Pennsylvanian are within easy field trip distance from the University. Crop farming, hog and poultry production, a nuclear-powered electricity generating plant, coal strip mining, urban centers, and a multi-use national forest provide ample opportunities for studying the impact of modern society on ecosystems and the natural environment.

The employment opportunities in environmental science are projected to continue to increase. Graduates may find employment with environmental consulting companies, local, state, or federal governmental agencies, and private companies that have significant environmental impact. Environmental scientists are involved in the following types of studies: environmental impact analysis, pollution assessment and control, solid waste landfill location and management, ecosystem analysis, surface and groundwater resources, air quality, and many others. The student interested in a specific

environmental science curriculum should refer to the appropriate section of this book. For example, the B.S. in biology-environmental science option is listed with the other biology curricula.

Pre-Professional Options

Arkansas Tech University offers complete pre-professional education for students interested in medicine, dentistry, physical therapy, and pharmacy. Students who study at Arkansas Tech University are very successful at gaining entrance into these professional schools. Although the entrance requirements for medical schools reserve the ability to accept students meeting the minimum core courses, in practice students gaining admission will usually have completed a B.S. degree. Most of these students major either in biology or chemistry, but any field is acceptable as long as they complete specific courses required by their chosen professional school. The Biochemical Option of the Chemistry major and the Biomedical Option of the Biology major were specifically developed to serve these "Pre-med" students in addition to others with plans for post-graduate education. Faculty advisors in chemistry and biology are also available to guide students targeting a wide variety of other allied health sciences including optometry, radiology, dental hygiene, dental pharmacy, pharmacy technician, and others. Course schedules can be customized to meet pre-requisites specified by schools of the student's choice.

Transfer Students

Applicability of transfer credit to meet specific degree requirements depends on the major selected by the transfer student. The transfer student should review the Transfer Credit policy in the Admission section of this catalog and meet with their academic advisor to determine final transfer credit eligibility for the selected program of study.

Department of Biological Sciences

The Department of Biological Sciences offers baccalaureate degrees in a wide variety of majors and options. We also offer one minor and one associate of applied science degree. These different aspects of biological science and associated faculty are organized in the following program areas:

Biology Program:

[Biology major General option](#)

[Biology major Biomedical option](#)

[Biology major Environmental option](#)

[Biology minor](#)

Fisheries and Wildlife Science Program:

[Fisheries and Wildlife Science major](#)

Allied Health Sciences Programs:

[Health Information Management major](#)

[Medical Assistant major \(Associate of Applied Science\)](#)

[Medical Technology major](#)

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Professors:

Gagen, Kellner, Kirkconnell
Nupp, Stoeckel, Wilkins

Associate Professors:

Bowman, P. Cox, J. Jackso
Johnson, Lovely, Sparacino
Tedford, Yamashita

Assistant Professors:

Chaney, Jacobs, Merle, Stil

Students interested in teaching biology at the secondary level should follow the suggested curriculum in [Life Science](#) [Earth Science for Teacher Licensure](#) as outlined under the teacher licensure curricula in the College of Education.

Each of the bachelor of science degree programs offered by the department, with the exception of medical technology and teacher licensure curricula, requires a total of 120 hours for graduation. Except for Allied Health Science programs (AHS), which adhere to grade policies recommended by certifying associations, no more than 12 hours of "D's" may be applied toward the baccalaureate degrees listed above. Students in the Department of Biological Sciences, except AHS program majors, are required to take a common core consisting of: an orientation course; [BIOL 1114](#), Principles of Biology; [BIOL 2124](#), Zoology; [BIOL 2134](#), Botany; an ecology course; a physiology course; and a seminar course. Some students are required to take [MATH 1113](#), College Algebra, plus two additional math oriented courses above level. Courses in computer science, chemistry, and physics are also required. The following descriptions of individual degree programs include specific descriptions and requirements.

Graduating seniors, except those in AHS programs, will be required to take the Major Field Assessment Test (MFAT) in Biology as part of the assessment plan for the department. Students will take the test during the last few weeks of the semester of planned graduation.

Biology Program

The baccalaureate degree program in biology is designed to prepare students for a wide range of career opportunities. It also provides a solid foundation for those wanting to pursue specialization at the graduate level. Specific course requirements are outlined in the following curricula; whereas, more general guidelines are in the previous section.

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Arkansas Tech University is affiliated with the Gulf Coast Research Laboratory (GCRL) at Ocean Springs, Mississippi. With prior departmental approval, Arkansas Tech University students may enroll in marine biology courses at GCRL and receive the credits applied toward the biology degree at Arkansas Tech. This affiliation makes possible a concentration in marine biology.

The "General Option" is the most flexible and is recommended for students who do not wish to specialize in biomedical or environmental fields.

The "Biomedical Option" is designed for students wishing to study medicine, dentistry, physical therapy, and related fields. Thus, graduates typically apply to a medical school of some type or a graduate program such as a master's program in physical therapy. However, while the specified curriculum is well-suited to these studies, professional schools do not specify that entering students have particular majors or options. Graduates who complete the degree option yet do not enter a medical or graduate school program should be prepared for a variety of employment opportunities especially in biomedical or biotechnology-related laboratories.

The "Environmental Option" is designed to cover the aspects of biology, chemistry, and earth science most applicable to environmental employment, consultation, or graduate studies in environmental protection and remediation. Consequently, the overall curriculum and many of the individual courses are interdisciplinary. Furthermore, the program specifically provides

opportunities for students to interact with others who are following the Environmental Option associated with Chem and Geology majors.

Curriculum in Biology (General Option)

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	U.S. History/Government ^{1,T}	3	SPH 2003	3
BIOL 1011	1	BIOL 2124 or 2134	4	BIOL 2124 or 2134	4	BIOL 3034	4
BIOL 1114	4	Social Sciences ^{1,T}	3	CHEM 2124 ^T	3	CHEM 2134 ^T	4
MATH 1113 ^T	3	Any COMS ^T	3	Elective ^T	3	Biology Elective ^T	3
Social Sciences ^{1,T}	3	Physical Activity ^{1,T}	2	Math Elective ²	3		
Total Hours	14	Total Hours	15	Total Hours	17	Total Hours	17
Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
BIOL 1114	4	BIOL 1011	1	U.S. History/Government ^{1,T}	3	SPH 2003	3
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	BIOL 2124 or 2134	4	BIOL 3034	4
MATH 1113 ^T	3	BIOL 2124 or 2134	4	CHEM 2124 ^T	4	CHEM 2134 ^T	4
Social Sciences ^{1,T}	3	Social Sciences ^{1,T}	3	Elective ^T	3	Biology Elective ^T	3
Physical Activity ^{1,T}	1	Physical Activity ^{1,T}	1	Math Elective ²	3		
		Any COMS ^T	3				
Total Hours	14	Total Hours	15	Total Hours	17	Total Hours	17
Junior				Senior			
Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Math Elective ²	3	Elective ^{5,T}	4	Fine Arts & Humanities ^{1,T}	3	Fine Arts & Humanities ^{1,T}	3
PHYS 2014	4	PHYS 2024	4	Physiology or Cellular Elective ⁴	3-4	Physiology or Cellular Elective ⁴	3-4
CHEM 3254	4	CHEM 3264	4	Biology Elective ⁵	3-4	BIOL 4891	3-4
BIOL 3114 ³	4	Biology Elective (3000-4000 level)	4	Elective ^{5,T}	5	Elective ^{4,T}	5
						Biology Elective ⁴	
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Six hours of mathematics above [MATH 1113](#) (courses in the areas of statistics and calculus or statistics and biostatistics ([FW 3173](#)) are recommended).

³Coastal Ecology ([BIOL 4094](#)) which is offered during the May mini-term can serve as an alternative to [BIOL 3114](#) Biology major.

⁴The physiology choices include: Human Physiology ([BIOL 3074](#)), General Physiology ([BIOL 3124](#)), Physiologica Ecology ([BIOL 3174](#)) Endocrinology ([BIOL 4014](#)); whereas, choices in the area of cell or molecular biology include Biology ([BIOL 4033](#)), Molecular Genetics ([BIOL 4074](#)), Microbiology ([BIOL 3054](#)), Immunology ([BIOL 4023](#)). One each area is required. Other alternatives must be approved by your advisor and Department Head. Each 3-hour s in one of these areas must be balanced by 4-hours (rather than 3-hours) of biology electives.

⁵Sufficient courses at 3000-4000 level to constitute a total of 40 hours.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses : taken at another college or university.

Curriculum in Biology (Biomedical Option)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
BIOL 1011 1	COMS Elective	3 CHEM 3254 4	4 CHEM 3264
BIOL 1114 4	BIOL 2124	4 BIOL 3074 4	4 BIOL 2134
ENGL 1013 ¹ 3	ENGL 1023 ¹	3 Speech ¹ 3	3 SOC 1003 or PSY 2003
CHEM 2124 4	CHEM 2134	4 Social Sciences ¹ 3	4 MATH 2914 or other MATH higher than 1113
MATH 1113 or MATH 1914 3-4		4 BIOL 2014 4	
Total Hours 15-16	Total Hours 14	Total Hours 18	Total Hours
Junior		Senior	
Fall	Spring	Fall	Spring
BIOL 3034 4	Statistics ³	3 Elective ⁶ 3	4 Fine Arts & Humanities ¹
PHYS 2014 4	PHYS 2024	4 * Elective (see advisor to select two courses from each column below) 12-16	4 Electives ⁵ (as needed to reach a total of 120 hours for graduation)
Cellular Elective ² 3-4	BIOL 3114 or BIOL 4094 4		4 BIOL 4891
Fine Arts & Humanities ¹ 6	U.S. History/Government ¹ 3		
Total Hours 17-18	Total Hours 14	Total Hours 15-19	Total Hours
		*Select⁴ six to eight hours from:	*Select⁴ six to eight hours from
		BIOL 3054 4	4 BIOL 3024
		BIOL 4023 3	3 BIOL 3064
		BIOL 4033 3	3 BIOL 3803
		BIOL 4074 4	4 BIOL 4054
		CHEM 3344 4	4 BIOL 4083
		CHEM 3363 3	3 NUR 2303
		BIOL 4951 -4 1-4	4 BIOL 4951 -4

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Cellular electives include the first four courses listed in the left-hand column above..

³See advisor for alternatives.

⁴See catalog to assure pre-requisites are met.

⁵At least 40 of the total hours required for graduation must be 3000-4000 level courses.

⁶Select from [AHS 2013](#), [PE 2513](#), [PHIL 3103](#), [PSY 3063](#), [SOC 3173](#), or [SOC 4053](#).

Curriculum in Biology (Environmental Option)

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
BIOL 1114 ^T	4 BIOL 2124	4 Social Sciences ^{1,T}	3 Elective ³
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{2,T}	3 CHEM 2124	4 BIOL 2111
BIOL 1004	4 Social Sciences ^{1,T}	3 ENGL 2053	3 CHEM 2134
MATH 1113 ^T	3 Statistics ^{5,T}	3 BIOL 2134	4 Social Sciences ^{1,T}
BIOL 1011	1 U.S. History/Government ^{1,T}	3	4 Fine Arts & Humanities ^{1,T}
Total Hours	15 Total Hours	16 Total Hours	14 Total Hours
Junior		Senior	
Fall	Spring	Fall	Spring
BIOL 3043	3 PHYS 2024	4 CHEM 3353	3 BIOL Elective (3000-4000 level)
BIOL 3124 or BIOL 3174	4 BIOL 3114 or BIOL 4094 ²	4 BIOL 3054	4 BIOL 4024
CHEM 3254	4 BIOL 3111	1 BIOL 3034	4 BIOL 4111
PHYS 2014 ^T	4 CHEM 3264	4 Math Elective ⁴	3-4 CHEM 3313
	Electives ³	3-4	4 Fine Arts & Humanities ^{1,T}
Total Hours	15 Total Hours	16-17 Total Hours	14-15 Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
BIOL 1114 ^T	4 BIOL 1004	4 BIOL 2134	4 Social Sciences ^{1,T}
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 BIOL 2111	1 ENGL 2053
Fine Arts & Humanities ^{1,T}	3 BIOL 2124	4 U.S. History/Government ^{1,T}	3 CHEM 2134
MATH 1113 ^T	3 BIOL 1011	1 CHEM 2124	4 PHYS 2014 ^{1,T}
Social Sciences ^{1,T}	3 Statistics ^{5,T}	3 Social Sciences ^{1,T}	3
Total Hours	16 Total Hours	15 Total Hours	15 Total Hours
Junior		Senior	
Spring	Fall	Spring	Fall
BIOL 3111	1 BIOL 3043	3 BIOL Elective (3000-4000 level)	4 CHEM 3353
BIOL 3114 or BIOL 4094 ²	4 BIOL 3124 or BIOL 3174	4 BIOL 4024	4 BIOL 3054
CHEM 3254	4 CHEM 3264	4 BIOL 4111	1 BIOL 3034
PHYS 2024 ^T	4 Elective ^{3,T}	3-4 CHEM 3313	3 Math Elective ⁴
Elective ^{3,T}	3	4 Fine Arts & Humanities ^{1,T}	3

Total Hours **16 Total Hours** **14-15 Total Hours** **15 Total Hours**

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". [ECON 2003](#) and [SOC 1003](#) are recommended for Social Science courses.

²Coastal Ecology ([BIOL 4094](#)) which is offered during the May mini-term can serve as an alternative to [BIOL 3114](#).

³Recommended electives include: [AGSS 2014](#), [ANTH 2103](#), [FW 4014](#), [FW 4034](#), [GEOL 1014](#), and [3153](#), [POLS 2103](#) and [4103](#), [SPH 2003](#), [SOC 3033](#), or [SOC 3113](#) (but also see the following footnote, relative to calculus).

⁴[FW 3173](#) or [MATH 2914](#) is recommended if you are considering graduate school in this field. Furthermore, [MATH 2243](#) should be considered for a general elective. Otherwise [MATH 2243](#) is recommended.

⁵[MATH 2163](#), [PSY 2053](#), or [SOC 2053](#)

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Biology

The minor in biology is available to students who wish to add to their knowledge of this increasingly important field of personal edification or for professional purposes, but choose not to complete a major in biology. The minor in biology requires 20 hours of courses:

[BIOL 1014](#) Introduction to Biological Sciences or [BIOL 1114](#) Principles of Biology

[BIOL 2124](#) Principles of Zoology

[BIOL 2134](#) Principles of Botany

*BIOL Electives (8 hours of 3000 or 4000 level)

*No more than one credit hour can be a seminar course

Fisheries and Wildlife Science

The fisheries and wildlife science program is a professional program designed to prepare qualified field and research biologists, as well as to provide a sound foundation for those students who intend to pursue graduate studies in wildlife biology, fisheries biology or field ecology. Through selection of elective courses, graduates are required to meet certification requirements of The Wildlife Society or the American Fisheries Society.

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Field biologists are employed by various state and federal agencies concerned with natural resources management including the Arkansas Game and Fish Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Arkansas Department of Environmental Quality, National Park Service, and the U.S. Army Corps of Engineers. Employment opportunities in the private sector are also available. Timber, mining, and utility companies hire field biologists for assessment and management of industrial lands. Environmental consulting firms, commercial fish and game farms, and nature preserves require qualified researchers, technicians, and educators.

Majors in fisheries and wildlife science must complete a minimum of 120 semester hours as specified in the following curriculum outline. No more than 12 hours of "D's" may be applied toward the degree. Candidates for graduation are expected to complete a comprehensive series of practical and technical exams to assess mastery of program objectives.

Curriculum in Fisheries and Wildlife Science

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 Speech ¹	3 FW 2013
BIOL 1114	4 BIOL 2124	4 BIOL 2134	4 FW 3114
MATH 1113 ^T	3 CHEM 1113 and CHEM 1111 or CHEM 2124 ^T	4 CHEM 2204 or CHEM 3254 ^T	4 GEOG 2833
FW 1001	1 Social Sciences ^{1,T}	3 Statistics ² , FW 3084 , ^{3,F} or FW 3154 ^{3,W}	3-4 Statistics , ² or FW 3144 ^{3,W}

<u>Social Sciences</u> ^{1,T} 3		<u>U.S. History/Government</u>	
Total Hours	14 Total Hours	14 Total Hours	14-15 Total Hours
	Junior		Senior
Fall	Spring	Fall	Spring
<u>FW 3173</u> or Calculus	3 <u>FW 3053</u>	3 <u>FW 4103</u>	3 <u>FW 4003</u>
<u>FW 4014</u> ^{3,W} , <u>FW 4064</u> ^{3,W} or Electives ⁴	4 <u>FW 4024</u> ^{3,F} or Electives ⁴	4 <u>FW 4013</u> ^{3,W} or <u>FW 4043</u> ^{3,F}	3 <u>FW 4083</u>
<u>BIOL 4044</u> ^W or Electives ⁴	4 <u>BIOL 3004</u> ^{3,W} or Electives ⁴	4 Electives ⁴	9 <u>FW 4001</u>
Electives ⁴	3 Electives ⁴	3	Electives ⁴
	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}
Total Hours	14 Total Hours	17 Total Hours	15 Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 FW 2013	3 <u>Speech</u> ¹
<u>BIOL 1114</u>	4 <u>BIOL 2124</u>	4 <u>BIOL 2134</u>	4 <u>FW 3114</u>
<u>MATH 1113</u> ^T	3 <u>CHEM 1113</u> and <u>CHEM 1111</u> or <u>CHEM 2124</u> ^T	4 <u>GEOG 2833</u>	3 <u>CHEM 2204</u> or <u>CHEM 3254</u>
<u>Social Sciences</u> ^{1,T} 3	<u>FW 1001</u>	1 Statistics ² or <u>FW 3144</u> ^{3,W}	3-4 <u>FW 3084</u> ^{3,F} , <u>FW 3154</u> ^{3,W} or Statistics ²
	<u>Social Sciences</u> ^{1,T}	3 <u>U.S. History/Government</u> ^{1,T}	3
Total Hours	13 Total Hours	15 Total Hours	16-17 Total Hours
	Junior		Senior
Spring	Fall	Spring	Fall
<u>FW 3053</u>	3 <u>FW 3173</u> or a Calculus	3 <u>FW 4003</u>	3 <u>FW 4013</u> ^{3,W} or <u>FW 4043</u> ^{3,F}
<u>FW 4024</u> ^{3,F} or Electives ⁴	4 <u>FW 4014</u> ^{3,W} , <u>FW 4064</u> ^{3,W} or Electives ⁴	4 <u>FW 4083</u>	3 <u>FW 4103</u>
<u>BIOL 3004</u> ^{3,W} or Electives ⁴	4 <u>BIOL 4044</u> ^W or Electives ⁴	4 <u>FW 4001</u>	1 Electives ⁴
Electives ⁴	3 Electives ⁴	3 Electives ⁴	5
	<u>Fine Arts & Humanities</u> ^{1,T}	3 <u>Fine Arts & Humanities</u> ^{1,T}	3
Total Hours	14 Total Hours	17 Total Hours	15 Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Statistics must be taken either fall or spring term.

³F and W superscripts designate courses required for certification in fisheries and wildlife, respectively. Students choose between FW 3154 and FW 3144, FW 4014 and FW 4064, and BIOL 3004 and BIOL 4044 for wildlife certification. Meeting requirements for fisheries or wildlife certification is a requirement for graduation.

⁴Must include at least two courses from the biology group (BIOL 3174 physiological ecology, BIOL 3034 genetics, 4064 evolutionary biology, BIOL 3064 parasitology, AGPM 3104 entomology, BIOL 3184 animal behavior, BIOL 3174 plant taxonomy, BIOL 4044 dendrology, BIOL 4094 coastal ecology), one ^W or two ^F courses from the physical science group (any physics course, AGSS 2014 soils, GEOL 1014 physical geology, GEOL 3083 hydrology), and three 3000 level fisheries and wildlife courses. Sufficient additional electives to produce 120 total credit hours are required for graduation.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Allied Health Science Programs

The allied health science programs include a two-year curriculum in medical assistant and four-year curricula in health information management and medical technology. Statements and curricula for these programs are listed below.

Health Information Management

The degree program in health information management prepares the student for a professional career as an active member of the modern health-care team. In this age of increased computerization and data analysis, the health information management field is an exciting new area with virtually unlimited possibilities. The health information management administrator is an expert in the world of health record systems. He/she is responsible for obtaining complete health records for use in research; for gathering statistical information on which to base long-range health planning goals; for determining legitimacy of requests for confidential medical information; for controlling the circulation and integrity of health records, and, as department head, is responsible for efficiency of the health information department employees in the performance of daily activities.

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The health information department in a medical facility has in its care all the documentation regarding patient-care, physician as well as ancillary information. Responsibility for data validity and integrity play a major role in the health information profession. He/she must be progressive, conscientious, tactful, and knowledgeable, as much work is accomplished in cooperation with other allied health professionals. Above all, the health information professional must adhere to the Code of Ethics of the American Health Information Management Association and to the appropriate institutional behavioral codes that apply.

Professional practice is scheduled at affiliated hospitals in nearby cities for a period of six hours per week during fall and spring semesters for senior HIM majors. The management affiliation may be assigned to a hospital in a distant location for four weeks (40 hours per week) and normally occurs in the summer immediately following the senior year. Student is responsible for all transportation and lodging expenses during these assignments; however, every effort will be made to minimize such costs.

Students must make at least a "C" in each of the professional courses and demonstrate their proficiency in professional practice and management-affiliation. Upon successful completion of the program, the student is granted a Bachelor of Science degree in health information management and becomes eligible to write the national certification examination. The student already holding a baccalaureate degree may apply for the HIM program as specified in the Application Guidelines and work toward another baccalaureate degree provided the pre-professional course of study has been completed to establish eligibility to write the national certification examination. Registered health information technicians are urged to contact the Program Director for information regarding RHIA progression. The national certification examination is offered year-round by the American Health Information Management Association.

Special instructions for transfer students: transfer of courses to meet specific Health Information Management Program requirements have a grade of at Least C. Lower-level courses (numbered in the 1000's and 2000's) from other institutions cannot be transferred to meet upper-level (3000-4000) HIM course requirements; however, they may be used as general electives. Transfer of upper-level courses to meet HIM requirements is subject to validation by the HIM Program.

The application process for the Health Information Management Program is as follows:

Program Application Guidelines

1. Application for upper level professional HIM courses must be on file with the HIM Program Director by March prior to the year you wish to take HIM courses.
2. To be eligible for application interview, the following must be on file: Application, current copy of all applicable transcripts, including a cumulative GPA of 2.5 on a 4.0 scale, and COMPASS/ACT scores.
3. Applicants may be required to complete an interview with an interview team. Consideration will be given to applicants such as:
 - Dedication and perseverance
 - Aptitude
 - Knowledge of HIM profession
 - Professional appearance

- Flexibility
 - Realistic career goals
 - True desire to enter HIM profession
 - Ability to finish HIM program within prescribed time
4. Candidates will be ranked based on GPA and number of prerequisite courses completed. The top twenty will be selected. A ranked order waiting list will be maintained by the HIM Program Director.
 5. Candidates will be notified prior to pre-registration for the fall semester. If accepted, candidates must return signed statement acknowledging acceptance. Candidates must register for courses indicated on the degree plan. Any change in degree plan requires approval of the student's HIM faculty advisor. Candidates must notify the program director of change in degree choice.
 6. A late application deadline of August 15th will be observed if positions are available. Late applicants will be accepted as soon as possible or during the week of late registration.
 7. If a candidate fails a course that would preclude graduation, or does not earn at least a "C" in HIM courses, reapplication to the HIM Program will be required.

The Health Information Management Program is accredited by the Commission on the Accreditation for Health Information and Information Management Education (CAHIIM) in cooperation with the American Health Information Management Association's Council on Accreditation

Curriculum in Health Information Management

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>U.S. History/Government</u> ^{1,T}	3 <u>Social Sciences</u> ^{1,T}
Elective ^{2,T}	2 <u>BIOL 1014</u> ^{1,T}	4 <u>BDA 2003</u> ^T	3 <u>COMS 2233</u> ^T
<u>AHS 1023</u>	3 <u>SPH 2003</u> ^T	3 <u>BIOL 2004</u> ^T	4 <u>CHEM 1113</u> and <u>CHEM 1111</u> ^{1,T}
<u>Social Sciences</u> ^{1,T}	3 <u>MATH 1113</u> ^T	3 <u>AHS 2013</u> or <u>ACCT 2003</u> ^T	3 <u>AHS 2013</u> or <u>ACCT 2003</u> ^T
<u>TECH 1001</u>	1		Elective ^T
Total Hours	12 Total Hours	13 Total Hours	13 Total Hours
Junior		Senior	
Fall	Spring	Fall	Spring
<u>Fine Arts & Humanities</u> ^{1,T}	6 <u>HIM 3153</u>	3 <u>HIM 4182</u>	2 <u>HIM 4073</u>
<u>PSY 2053</u> ^T	3 <u>HIM 4153</u>	3 <u>HIM 4063</u>	3 <u>HIM 4083</u>
<u>MGMT 3003</u>	3 <u>MGMT 4023</u> or <u>HA/RP 4113</u>	3 <u>HIM 3043</u>	3 <u>HIM 4292</u>
<u>HIM 3023</u>	3 <u>HIM 3133</u>	3 <u>HIM 4983</u>	3 <u>HIM 4034</u>
	<u>HIM 3132</u>	2 <u>HIM 3033</u>	3 <u>MGMT 4013</u>
		<u>HIM 4092</u>	2
Total Hours	15 Total Hours	14 Total Hours	16 Total Hours
Senior 9th Semester			
Summer			
<u>HIM 4895</u>	5		
<u>HIM 4892</u>	2		
Total Hours	7		

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²HIM 1001 recommended.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Medical Assistant

Medical assistants perform administrative and clinical duties under the direction of physicians in their offices or other medical settings. The medical assistant curriculum is a two-year associate of applied science degree program. This program offers the student a broad foundation in basic medical assisting skills including an externship (practicum) in a medical facility under the supervision of clinic personnel and the Medical Assistant Program Director. Basic medical assistant training and education consist of learning experiences in communication skills, examination room procedure, clinical laboratory skills, and general office practices.

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Admission to the second year of the program is on a competitive basis and is limited to 12 students a year. Students make at least a "C" in each of the professional courses. A student is eligible for admission to the second year of the program upon completion of all prerequisites with an overall grade point average of at least 2.00 on a 4.00 scale; presentation of evidence of good health; and satisfactory completion of a personal interview with the program director. If more than 12 students qualify for the second year of the program, they will be ranked by cumulative grade point average. Those not admitted in the first round of selection will be placed on a ranked waiting list.

Students enrolled in [AHS 2034](#), [AHS 2044](#), and [AHS 2055](#) are required to carry malpractice liability insurance. A coverage insurance policy is arranged by the program director, but the premiums are paid by the student and are not included in tuition and fees paid to the University.

The Arkansas Tech University Medical Assistant Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board of the American Association of Medical Assistants Endowment (AAMAE). Students who successfully complete the associate degree program for medical assistants will be eligible to sit for the Certified Medical Assistant (CMA) examination.

Curriculum in Medical Assistant

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ¹	3 ENGL 1023 ¹	3 AHS 2013	3 AHS 2034
BIOL 1114 or BIOL 2124	4 PSY 2003	3 AHS 2022	2 AHS 2032
AHS 1023	3 PE 2513	3 AHS 2023	3 AHS 2053
MATH 1113 ¹	3 SPH 1003 or SPH 2003	3 AHS 2033	3 HIM 4073
COMS 1003	3	AHS 2044	4 BIOL 2004
TECH 1001	1		
Total Hours	17 Total Hours	12 Total Hours	15 Total Hours
Summer I			
AHS 2055	5		
AHS 2061	1		
Total Hours	6		

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

Medical Technology

Arkansas Tech University, in affiliation with approved schools of medical technology, offers a four-year program leading to the bachelor of science degree and to certification as a medical technologist. The affiliated schools of medical technology are accredited by the Council on Medical Education and Hospitals of the American Medical Association.

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The first three years of the curriculum are taught on the Tech campus and the fourth (professional) year is taught at the affiliated schools of medical technology. Admission to the professional year is on a competitive basis, and students must meet the admission standards of the medical technology school.

Personnel with Medical Technology Affiliated Institutions

Baptist Health Schools, Little Rock, Arkansas: John E. Slaven, M.D., Medical Director, School of Medical Technology
Jennie Kyle, M.P.H., MT (ASCP) S.H., Program Director, School of Medical Technology.

St. John's Regional Medical Center, Joplin, Missouri: Susan O. Pintado, M.D., Medical Director, School of Medical Technology.
Karen Adkins, MA ED, MT (ASCP), Program Director, School of Medical Technology.

To qualify for the bachelor of science degree, the student must satisfactorily complete a minimum of 91 semester hours during the first three years of the program and 40 semester hours during the final professional year (52 weeks of classes at an affiliated medical technology school. The third year of the curriculum (30 semester hours) must include 20 semester hours in courses numbered 3000 or above, of which 4 semester hours must be in chemistry and 7 or 8 semester hours in biology. Also, the third year of the curriculum must be completed in residence at Arkansas Tech University.

Tuition and fees for courses taken the senior year at one of the affiliated medical technology schools will be assessed at the current rate charged by the affiliated school and are payable to Arkansas Tech University. Financial aid and scholarship arrangements are also made by Tech.

Upon successful completion of the final 40 hours at an affiliated medical technology school, a student is eligible for a bachelor of science degree, as well as being eligible to write the National Board Examination for licensure. This examination is given at various times throughout the year by the Board of Registry of the American Society of Clinical Pathologists.

Curriculum in Medical Technology

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T} 3	<u>ENGL 1023</u> ^{1,T} 3	<u>U.S. History/Government</u> ^{1,T} 3	<u>Social Sciences</u> ^{1,T}
<u>BIOL 1114</u> or <u>BIOL 2124</u> ^T 4	<u>BIOL 2004</u> ^T 4	<u>Fine Arts & Humanities</u> ^{1,T} 3	<u>PSY 2003</u>
<u>BIOL 1011</u> ^T 1	<u>CHEM 2134</u> ^T 4	<u>BIOL 2023</u> 3	<u>Fine Arts & Humanities</u> ^{1,T}
<u>CHEM 2124</u> ^T 4	<u>MATH 1203</u> ^T 3	<u>BIOL 2022</u> 2	
<u>MATH 1113</u> ^T 3		<u>AHS 2013</u> 3	
Total Hours 15	Total Hours 14	Total Hours 14	Total Hours
Junior		Senior	
<u>BIOL 3054</u> ^T 4	3	Unusual course category - 12 months	
<u>BIOL 3034</u> , <u>BIOL 3064</u> , <u>BIOL 4023</u> or <u>BIOL 4033</u> ³ 7-8		<u>MEDT 4012-3</u> 2-3	<u>MEDT 4056-7</u>
<u>CHEM 2204</u> , <u>CHEM 3245</u> , <u>CHEM 3254</u> , <u>CHEM 3264</u> , <u>CHEM 3344</u> , or <u>CHEM 4414</u> ³ 12-13		<u>MEDT 4029</u> 9	<u>MEDT 4064</u>
Electives 2-0		<u>MEDT 4035</u> 5	<u>MEDT 4073</u>
Total Hours 25		<u>MEDT 4048-9</u> 8-9	<u>MEDT 4081-2</u>
		Total Hours	

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²COMS 1003 or Alternate.

³Must have a total of 12-13 hours of upper-level chemistry and 7-8 hours of upper-level biology and a total of at least 12 hours of upper-level science.

hours in the junior year to reach the required 91 hour total before entering the senior, off-campus, year.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses : taken at another college or university.

Department of Mathematics

The Department of Mathematics offers a four-year program in mathematics that leads to the bachelor of science degree and curriculum that leads to a minor in mathematics. The curriculum is designed to meet the needs of three groups of students: (1) those who plan to seek employment in business, industry, or government, (2) those who plan to attend graduate school to continue their study of mathematics or a related field, and (3) those who plan to be secondary school teachers.

Students majoring in mathematics are encouraged to use their elective hours to complete a second major, or at least a concentration of 18 hours or more, in the field of their choice. For example, students interested in computer science are advised to complete the following courses: [COMS 1403](#), [COMS 2003](#), [COMS 2104](#), [COMS 2203](#), [COMS 2213](#), and two additional courses selected from [COMS 3213](#), [COMS 3503](#), [COMS 3803](#), and [COMS 4203](#). Students interested in business electives are advised to complete [BUAD 2003](#), [BUAD 2033](#), [ACCT 2003](#), [ACCT 2013](#), and [ECON 2003](#) and [ECON 2013](#). For other areas of interest, students should consult their advisor to arrange a plan of study.

Students who plan to attend graduate school in mathematics or a related field are advised to complete additional upper-level mathematics courses beyond the minimal degree requirements. The curriculum in [mathematics for teacher licensure](#) is found in the College of Education section of this catalog.

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Professors:

Carnahan, Hamm, Keisler, Watson

Associate Professors:

Amirkhanian, Enoch, Finan, S. Jordan, Limperis, Shores

Assistant Professor:

Pearson

Instructors:

K. Brown, Carman, Felkins, Hogan, Horton, S.M. Jordan, Ketkar, King, Sherrill, Taylor

Curriculum in Mathematics

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
MATH 2914 ^T	4	MATH 2924 ^T	4
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3
Elective ^{3,T}	4	MATH 2703	3
U.S. History/Government ^{1,T}	3	Social Sciences ^{1,T}	3
TECH 1001	1	Elective ^{3,T}	2
Total Hours	15	Total Hours	15
Junior		Senior	
Fall	Spring	Fall	Spring
MATH 4003	3	MATH 4123	3
MATH 3153	3	MATH 3203	3
Fine Arts & Humanities ^{1,T}	3	Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3
Elective ^{3,T}	6	Elective ^{3,T}	6
Total Hours	15	Total Hours	15
MATH 2934 ^T	4	MATH 3243	3
MATH 3003	3	COMS 2803 ^T	3
PHYS 2114 ^T	4	PHYS 2124 ^T	4
Fine Arts & Humanities ^{1,T}	3	Social Sciences ^{1,T}	3
Elective ^{3,T}	1	Elective ^{3,T}	2
Total Hours	15	Total Hours	15

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
MATH 2914 ^T	4	MATH 2924 ^T	4
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3
Social Sciences ^{1,T}	3	Elective ^{3,T}	4
Fine Arts & Humanities ^{1,T}	3	U.S. History/Government ^{1,T}	3
TECH 1001	1		
Total Hours	14	Total Hours	14
Junior		Senior	
Spring	Fall	Spring	Fall
MATH 2934 ^T	4	MATH 3243	3
MATH 2703	3	MATH 3003	3
Social Sciences ^{1,T}	4	PHYS 2114 ^T	4
Elective ^{3,T}	3	Fine Arts & Humanities ^{1,T}	3
COMS 2803 ^T	3	Elective ^{3,T}	3
Total Hours	16	Total Hours	16

Spring	Fall	Spring	Fall
MATH 4123	3 MATH 3153	3 MATH 3203	3 MATH 4033
MATH Elective ²	3 MATH 4003	3 MATH Elective ²	3 Elective ^{3,T}
PHYS 2124 ^T	4 Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3 Elective ^{3,T}	9 MATH 4971
Elective ^{3,T}	5 Elective ^{3,T}	6	
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²3000 - 4000 level math elective. [MATH 3033](#), [MATH 3173](#), [MATH 4703](#), and [MATH 4772](#) may not be used to satisfy this requirement. [MATH 4993](#) may not be used without prior approval of the department head.

³At least 40 of the total hours required for graduation must be 3000-4000 level courses.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

Minor Mathematics

For several majors, a minor in mathematics is a natural and popular acquisition. The minor in mathematics requires 20 hours of courses:

[MATH 2703](#) Discrete Mathematics
[MATH 2914](#) Calculus I
[MATH 2924](#) Calculus II

and 9 hours selected from the following:

[MATH 2934](#) Calculus III
[MATH 3003](#) Foundations of Number Systems
[MATH 3123](#) College Geometry
[MATH 3153](#) Applied Statistics I
[MATH 3203](#) Introduction to Analysis
[MATH 3243](#) Differential Equations I
[MATH 4003](#) Linear Algebra I
[MATH 4033](#) Abstract Algebra I
[MATH 4103](#) Linear Algebra II
[MATH 4113](#) History of Mathematics
[MATH 4123](#) Mathematical Modeling
[MATH 4133](#) Abstract Algebra II
[MATH 4153](#) Applied Statistics II
[MATH 4173](#) Advanced Biostatistics
[MATH 4243](#) Differential Equations II
[MATH 4263](#) Mathematical Statistics
[MATH 4273](#) Complex Variables

Department of Nursing

Arkansas Tech University's nursing curriculum is designed to prepare students for beginning professional responsibilities in a variety of health-care settings and to provide the necessary foundations for graduate study.

The Bachelor of Science in Nursing program is approved by the Arkansas State Board of Nursing and the Arkansas Department of Higher Education. The program is accredited by the National League for Nursing Accrediting Commission, Telephone: 404-975-5000.

The Department of Nursing offers undergraduate study in nursing to qualified high school graduates, graduates of diploma and associate degree programs in nursing, licensed psychiatric technician nurses, and licensed practical nurses. The baccalaureate program leads to the degree of Bachelor of Science in Nursing. Satisfactory completion of eight semesters of general education, course pre-requisites, and upper-division professional nursing courses is required.

Upon completion of degree requirements, the student may be eligible to take the national examination (NCLEX-RN) for licensure as a registered nurse. All nursing students should be aware that the State Board of Nursing requires all applicants for the NCLEX-RN to have a criminal background check performed. If the applicant has ever been convicted of a crime, the Board will review the application and make a decision as to whether the applicant is eligible to take the NCLEX-RN exam and to practice nursing in the State of Arkansas. Any student who has been convicted of a crime should notify his or her advisor before taking the prerequisite courses. This information will be kept strictly confidential. The student will be advised of the method of petitioning the Board and counseled regarding the process. A registered nurse may be subject to losing his or her license if the conviction is discovered after the license is granted.

The Department of Nursing reserves the right to make changes, without prior notice, in the curriculum and program requirements. Changes are made in keeping with the changing health needs of society and/or the best interests of the students and the department to maintain quality professional nursing education.

The Department of Nursing utilizes the clinical facilities and services of the Arkansas River Valley area; however, in order to meet the objectives of certain courses, the student should be prepared to travel out of this area. Students are required to provide their own transportation.

In addition to the on-campus program, ATU offers an RN to BSN completion program on the Web.

Admission

Admission into lower division foundation courses is open to any Arkansas Tech University student who meets the prerequisites for each course. Nursing majors are encouraged to seek academic advising from the nursing faculty immediately upon acceptance to the University.

Admission to the upper division nursing courses is competitive and subject to evaluation by the Nursing Department's Admission and Progression Committee. Students are considered for admission the spring and fall preceding the semesters they plan to enter upper division nursing courses. All transcripts and/or credentials along with an Application to Upper Division must be submitted to the Department of Nursing by March 1 for fall admission or by October 1 for spring admission. Eligible repeating students applying for readmission must submit all materials by June 30 or January 5.

Minimum requirements for acceptance into the upper division (Level 0, preclinical) nursing courses are:

1. Prerequisite grade point average of 3.0 on a 4.0 scale. Students will be admitted according to the criteria for selection of upper division students.
2. Completion of the following courses with a grade of "C" or better in each: [ENGL 1013](#), [ENGL 1023](#), [MATH 1113](#), [BIOL 2014](#), [BIOL 3054](#), [BIOL 3074](#), [CHEM 1113](#) and [CHEM 1111](#), [PSY 2003](#), [SOC 1003](#), and [NUR 2303](#). Students who attempt the 3000 and 4000 level courses listed above more than twice without achieving a "C" or better will not be considered for upper division. An attempt is "any enrollment in any course and dropping it after the first day of the 10th week of the semester for any reason, and/or failure (grade of "D", "F", or "FE") of the course.
3. Completion of the following courses: Social Science - 3 hours, American History or Government - 3 hours, Humanities - 3 hours; Fine Arts - 3 hours; Elective - 1 hour, Physical Education - 1 hour, [TECH 1001](#). (See [General Education Requirements](#) for specific course alternatives.)
4. Acquisition of professional/student liability insurance, criminal background check and current certification of Basic CPR for adults, children, and infants as taught by the American Heart Association, or persons currently certified in CPR instruction. These must be renewed each year.
5. Initiation of Hepatitis B Vaccine series.

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Professors:

Burris, Helms, C. Smith

Associate Professors:

Daily, C. Jones, McKown

Assistant Professors:

Anderson, Buckholtz, Christie,
Coleman, K. Cox, Darnell, Ellis-
Bosold, Gist, Harless, Kennedy,
S. Smith

6. Any student that fails an upper division nursing course (with the exception of nursing electives), withdraws, or has a break in enrollment must apply for readmission into the nursing program by June 30 for readmission to the fall semester, or January 5 for readmission to the spring semester. To reapply, the student must complete the "Reapplication to Upper Division" form and submit a letter of intent addressing reasons for past failure and a plan of action to enhance future success within the nursing program. Readmission will be based on the availability of positions in the level to which the student is applying, letter of intent and current GPA. Should several students reapply for the same level and a limited number of positions are available, GPA ranking, in conjunction with their letter of intent will guide the committee decision-making process.
7. Students who have not attended Arkansas Tech University during the past year must apply for readmission to the University.
8. The nursing program must be completed within four years of entry into level one of the nursing curriculum.

Applicants will be ranked according to admission criteria for selection of upper division students. Criteria are as follows:

For students desiring entry to spring Upper Division (Level 0-preclinical nursing):

1. GPA \geq 3.0 at the time of application and at the end of the fall semester. Student has no more than 6 hours outstanding at the end of the spring semester.
2. Do not admit at this time.

For students desiring entry to fall Upper Division (Level 0-preclinical nursing):

1. GPA \geq 3.0 at the time of application and at the end of the spring semester. Student has no more than 6 hours outstanding at the end of the fall semester.
2. Do not admit at this time.

The student must have completed a minimum of 48 hours of required general education and prerequisite courses (see curriculum plan) with a GPA \geq 3.0 before entering level 0-preclinical nursing courses.

Applications will be ranked according to GPA. Admission will be determined by the resulting rank order. Applicants completing prerequisites prior to or during summer sessions are required to submit transcripts prior to the registration period for fall semester.

Applicants completing prerequisite requirements at an institution other than ATU during summer sessions or fall must submit a written note from the course instructor(s) verifying the grade(s) earned in the course(s). These students will sign a form agreeing to have official transcripts on file in the registrar's office within one month from the first day of the semester.

A student position may be filled in a discretionary manner for exceptional reasons as determined by the committee and approved by the faculty.

Minimum requirements for continuation into Level 1

1. Acquisition of professional/student liability insurance, criminal background check and current certification of Basic CPR for adults, children, and infants as taught by the American Heart Association, or persons currently certified in CPR instruction. These must be renewed each year with the exception of CPR certification that is valid for two years.
2. Two of the three injections in the Hepatitis B Vaccine series.
3. Any student that fails an upper division nursing course (with the exception of nursing electives), withdraws, or has a break in enrollment must apply for readmission into the nursing program by June 30 for readmission to the fall semester, or January 5 for readmission to the spring semester. To reapply, the student must complete the "Reapplication to Upper Division" form and submit a letter of intent addressing reasons for past failure and a plan of action to enhance future success within the nursing program. Readmission will be based on the availability of positions in the level to which the student is applying, letter of intent and current GPA. Should several students reapply for the same level and a limited number of positions are available, GPA ranking, in conjunction with their letter of intent will guide the committee decision-making process.
4. Students who have not attended Arkansas Tech University during the past year must apply for readmission to the University.
5. The nursing program must be completed within four years of entry into level one of the nursing curriculum.

Progression Policy

Students must achieve a "C" or better in all nursing courses.

A student in the upper division nursing courses may only repeat one nursing course. Following a second failure in any upper division nursing course the student will be dismissed from the program. Upper division nursing courses: 66 hours of course work allotted to the nursing major, inclusive of [NUR 2023](#), all 3000 level nursing courses (with the exception of 3803) and all 4000 level nursing courses (with the exception of 4903).

Students who make less than a "C" in any upper division nursing course may not progress into courses for which that course(s) is a prerequisite until the course(s) has been repeated and the required minimum grade attained.

The following Upper Division required non-clinical courses ([NUR 2023](#), [NUR 3103](#), [NUR 3204](#), [NUR 3213](#), [NUR 3303](#), [NUR 3402](#), [NUR 3513](#), [NUR 3606](#), [NUR 3802](#), [NUR 4206](#), [NUR 4303](#), [NUR 4606](#)) must be completed with a grade of "C" or better to graduate. Any students who attempts any one of these courses twice (2 times) and does not achieve a final grade of "C" or better in the course, will be automatically be withdrawn from the Arkansas Tech University Nursing Program and will not be eligible for readmission. An attempt is defined as "any enrollment in any course and dropping it (or changing it to an audit) after the first day of the 10th week of the semester during the Fall or Spring semester, or after the third week of either Summer session for any reason, or failure (grade of "D", "F", or "FE") of the course."

Readmission will not be considered for any student dismissed from the nursing department who obtained a "D", "F", or "FE" in two (2) upper division nursing courses. The Department Head will consider exceptions on an individual basis .

Any student who withdraws from a clinical nursing course ([NUR 3404](#), [NUR 3805](#), [NUR 4405](#), [NUR 4804](#)) after the fifth (5th) day of classes must have a passing grade at the time of withdrawal in order to withdraw passing. Students failing ("D" or "F") at the time of withdrawal will receive an "F" after the 5th day of classes. A grade of "F" will count as a failure ("F") for progression purposes.

All seniors are required to pass the NCLEX Review Exam. The student must complete the non-proctored exam with a passing score of 80% prior to sitting for the proctored examinations. The student is allowed five attempts to pass the NCLEX Review exam (two ATI, and three HESI). Any student not achieving a passing score on the 1st attempt must complete a review prior to a 2nd attempt on the exam. This review includes completion of the ATI/HESI non-proctored exams, review of material available from the resource drawer, and/or completion of NCLEX review chapters. If a passing score is not achieved on the 2nd attempt the student must meet with faculty to discuss requirements of review course prior to subsequent attempts. The student must wait at least three weeks between the 2nd and 3rd attempts. If a passing score is not achieved on the 5th attempt the student will receive a "0" for that 30% of the grade, a failing grade for the course and must repeat all components of the course, including the preceptorship. If a student desires to take an official review course such as Kaplan, the student may do so and if successfully completes the course, may forego further testing after the first ATI and first HESI attempts are completed.

Students must achieve a passing grade "C" in both the Theories and corresponding Practicum courses in order to progress within the program. Students who repeat a Theories course are required to show clinical competency in order to progress. Students who repeat Practicum are required to show theoretical competency in order to progress.

Clinical competence can be attained by:

1. Taking for credit the corresponding practicum course
2. Completing [NUR 3892](#), Clinical Competency I or [NUR 4892](#) Clinical Competency II with a grade of "C" or better.

Theoretical competence can be attained by:

1. Taking for credit corresponding theoretical competency. Student must maintain a 75% average on all exams.
2. Taking for credit corresponding theoretical competency. Student must make greater than or equal to 75% on corresponding comprehensive theory exam.

Advanced Placement

The different types of nursing education programs and vocational-technical school programs give rise to unique transfer problems. Each student's past education is evaluated individually. In addition, the University and the Department of Nursing have established the following policies:

1. Arkansas Tech University offers a baccalaureate degree program in nursing. Licensed registered nurses, licensed practical nurses and licensed psychiatric technical nurses may challenge, validate, or receive credit for general education and nursing courses that are included in the nursing curriculum. CLEP examinations can be used to challenge or validate the general education courses. The institution's general policy for awarding CLEP credit is followed in determining the successful challenge of courses by these examinations. Transfer credit will be given for prior challenge or validation tests of nursing content credited on official transcripts from other nursing programs. RNs are permitted to receive transfer credit for [NUR 3304/NUR 3303](#).
2. Licensed practical nurses (LPNs) and licensed psychiatric technical nurses (LPTNs) who have met all the lower division nursing curriculum requirements and graduated from an approved Arkansas PN or PTN program or an out-of-state NLN accredited program may receive credit for 17 hours of nursing courses ([NUR 3103](#), [NUR 3204](#), [NUR 3213](#), [NUR 3404](#), [NUR 3513](#)) if they meet the following specific requirements:
 - a. Have a current LPN or LPTN license in Arkansas.
 - b. Graduated less than 12 months prior to entry into the upper division of nursing.
 - c. Have graduated within more than 12 months prior to entry into the upper division of nursing and have 1000 hours of nursing employment during the 24 months immediately prior to entry into the upper division of nursing.

NUR 3204	4	NUR 3606	6	NUR 4206	6	NUR 4606	6
NUR 3513	3	NUR 3802	2	NUR 4303	3	NUR 4804	4
NUR 3213	3	NUR 3805 ⁴	5	NUR 4405	5	NUR 4903	3
NUR 3404 ⁴	4			Elective	1		
NUR 3402	2						
Total Hours	16 Total Hours		13 Total Hours		15 Total Hours		13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Depending on previous preparation, student should recognize that prerequisites may be required before enrolling in [BIOL 2014](#).

³Nursing students must have 6 hours of electives which could include [NUR 1001](#). ([ENGL 2053](#) recommended).

⁴One credit hour equals 3 contact hours.

⁵[MATH 1113](#) or higher level MATH course.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Nursing Curriculum for Licensed Practical Nurses

Arkansas State Articulation Agreement for LPNs

Nursing Skills I ([NUR 3103](#))

Theories and Concepts in Nursing I ([NUR 3204](#))

Care of the Older Adult ([NUR 3213](#))

Practicum in Nursing I - Nursing the Individual Client ([NUR 3404](#))

Nursing Skills II ([NUR 3513](#))

Curriculum in Baccalaureate Nursing

Suggested Sequence of Courses for LPNs

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ¹	3 ENGL 1023 ¹	3 NUR 2303	3 PSY 3813
MATH 1113 ⁵	3 PSY 2003	3 BIOL 3074	4 NUR 2023
CHEM 1113 and CHEM 1111	4 BIOL 2014 ²	4 Fine Arts & Humanities ¹	6 BIOL/NUR 3803
SOC 1003	3 Social Sciences ¹	3 BIOL 3054	4 NUR 3303
Physical Activity ¹	1 U.S. History/Government ¹	3	NUR 3402
TECH 1001	1		
Total Hours	15 Total Hours	16 Total Hours	17 Total Hours
Junior		Senior	
Fall	Spring	Fall	
NUR 3606	6 NUR 4206	6 NUR 4606	6
NUR 3802	2 NUR 4303	3 NUR 4804	4
NUR 3805 ⁴	5 NUR 4405 ⁴	5 NUR 4903 ⁴	3
	Elective	1	
Total Hours	13 Total Hours	15 Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Depending on previous preparation, student should recognize that prerequisites may be required before enrolling in [BIOL 2014](#).

³Nursing students must have 6 hours of electives which could include [NUR 1001](#). ([ENGL 2053](#) recommended).

⁴One credit hour equals 3 contact hours.

⁵[MATH 1113](#) or higher level MATH course.

Nursing Curriculum for Registered Nurses

General Education Requirements

English Composition I, II ([ENGL 1013](#), [1023](#))¹
 College Algebra ([MATH 1113](#) or higher level MATH course)
 Science with Lab (4 hours)
 Human Anatomy ([BIOL 2014](#))
 General Psychology ([PSY 2003](#))
 Introductory Sociology ([SOC 1003](#))
 Social Sciences¹ (3 hours)
 Fine Arts & Humanities¹ (6 hours)
 U.S. History/Government¹ (3 hours)
 University Orientation ([TECH 1001](#))

Additional Nursing Major Requirements

Microbiology ([BIOL 3054](#))
 Human Physiology ([BIOL 3074](#))
 Lifespan Developmental Psychology ([PSY 3813](#))
 Health Assessment ([NUR 3303](#))
 Applied Pathophysiology ([NUR/BIOL 3803](#))

Arkansas State Articulation Agreement²

Introduction to Professional Nursing ([NUR 2023](#))
 Nutrition ([NUR 2303](#))
 Nursing Skills¹ ([NUR 3103](#))
 Theories and Concepts in Nursing I ([NUR 3204](#))
 Care of the Older Adult ([NUR 3213](#))
 Pharmacology I ([NUR 3402](#))
 Practicum in Nursing I - Nursing the Individual Client ([NUR 3404](#))
 Nursing Skills II ([NUR 3513](#))
 Theories and Concepts in Nursing II ([NUR 3606](#))
 Pharmacology II ([NUR 3802](#))
 Practicum in Nursing II - Nursing the Family ([NUR 3805](#))

Senior Level Nursing for Registered Nurses Courses⁴

Arkansas Tech University Nursing Courses Specific to Curriculum in Baccalaureate Nursing for Registered Nurses

Spring Start

Junior Spring		Senior Summer I, II		Fall	
NURN 4002	2	NURN 4024	4	NURN 4034	4
NURN 4003	3	NURN 4303	3	NURN 4045	5
NURN 4013	3			Elective ³	2
Elective ³	3				
Total Hours	11	Total Hours	7	Total Hours	11

Summer Start

Junior Summer I, II		Fall		Senior Spring	
NURN 4002	2	NURN 4013	3	NURN 4034	4
NURN 4003	3	NURN 4024	4	NURN 4045	5
Elective ³	3	NURN 4303	3	Elective ³	2
Total Hours	8	Total Hours	10	Total Hours	11

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Licensed registered nurses who have met all of the lower division nursing curriculum requirements and graduated from

an associate degree or diploma program that was NLN accredited at the time of graduation may receive credit for 38 hours of nursing courses if they meet specific requirements.

³Electives to be approved by Nursing advisor.

⁴All general education requirements must be completed before enrolling in Senior Level Nursing for Registered Nurses courses unless granted an exception by the department head. All additional nursing major requirements must be completed with a GPA. ≥ 2.75 prior to enrolling in Senior Level Nursing for Registered Nurses courses.

Department of Physical Sciences

The Department of Physical Sciences offers majors and minors in chemistry, engineering physics, geology, physical science, nuclear physics, and physics. Students interested in teaching science in secondary schools should follow the curriculum in science set forth in this catalog under the [physical science/earth science teacher licensure](#) curricula, College of Education.

The description and curricula for each of the various degree programs in the physical sciences are listed below. Note that for every degree program in this department, there is a non-course requirement involving an exit interview with the Department Head as part of the formal process for graduation.

Chemistry

The program and all of the degrees are certified by the American Chemical Society. The chemists of today are involved in the development of a multitude of new materials such as plastics, drugs, and agricultural products. Research chemists are conducting studies of the fundamental nature of matter which lead to expanded knowledge in medicine and biology. Each course in chemistry stresses laws, theories, and applications in the lecture portion and offers students the opportunity to gain experience in well equipped laboratories.

Chemistry is one of the highly recommended courses of study for students interested in pursuing careers in a variety of professional endeavors such as the health sciences: medicine, pharmacy, dentistry, and para-medical fields.

The "Professional option" is especially recommended for students who plan to pursue graduate studies in chemistry or related fields or those persons wishing to seek employment in industry as chemists.

The "Biochemistry option" is designed to provide the background needed for students seeking entrance into professional medical or dental schools. It will also greatly benefit students seeking technical jobs that require multidisciplinary training in biology and chemistry as well as an abundance of science laboratory skills.

The "General option" is specifically designed with a minimum of required courses so that students, in cooperation with their faculty academic advisors, can exercise a maximum degree of flexibility in tailoring programs to meet their individual aspirations. By judiciously choosing electives, individuals can enrich these minimum chemistry requirements to prepare for futures in law, technical marketing, environmental science, computer science, technical writing, toxicology, education, technical illustration, engineering, health sciences, and business..

Chemistry also offers an "Environmental option". The objective of this curriculum is to bring together the disciplines of chemistry, biology, and geology as applied to the environment. Emphasis will be on interdisciplinary approaches to environmental studies.

Chemistry majors must earn a grade of "C" or better in all chemistry courses (CHEM), including transfer credits, in order to satisfy graduation requirements.

Dr. James Musser, Head
McEver Hall, Room 109
(479) 968-0361
jmusser@atu.edu
Fax: (479) 964-0837

Professors:

Baker, Cohoon, Hardcastle, Hemmati, Robertson

Associate Professors:

Bhuiyan, Kondrick, Lasey, Musser

Assistant Professors:

Gann, Harris, Hart, Mebi, Patton, Shojaei, Tackett, Zimmer

Instructor:

Fulmer

Curriculum in Chemistry (General Option)

Degree Completion Plan Beginning in Fall Semester							
Freshman		Sophomore					
Fall	Spring	Fall	Spring	Fall	Spring		
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Social Sciences ^{1,T}	3	U.S. History/Government ^{1,T}	3
MATH 2914 ^T	4	MATH 2924 ^T	4	PHYS 2014 or PHYS 2114 ^T	4	PHYS 2024 or PHYS 2124 ^T	4
CHEM 2124 ^T	4	CHEM 2134 ^T	4	CHEM 3254	4	CHEM 3264	4
Social Sciences ^{1,T}	3	BIOL 1114 ^T	4	COMS 2003 or COMS 2803 ^T	3	CHEM 3245	5
PHSC 1001	1	PHSC 1011	1				
Total Hours	15	Total Hours	16	Total Hours	14	Total Hours	16
Junior		Senior					

Fall		Spring		Fall		Spring	
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	Elective ⁴	9	Elective ⁴	9
Science Elective ²	3	Elective ^{4,T}	5	<u>CHEM 4414</u>	4	<u>CHEM 4401</u>	1
<u>CHEM 3301</u>	1	<u>CHEM 3344</u>	4	CHEM Elective ³	3	CHEM Elective ³	3
<u>CHEM 3324</u>	4					<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3
Elective ^{4,T}	1						
<u>CHEM 3423</u>	3						
Total Hours	15	Total Hours	12	Total Hours	16	Total Hours	16

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore		Junior		Senior	
Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3
<u>MATH 2914</u> ^T	4	<u>MATH 2924</u> ^T	4	<u>PHYS 2024</u> or <u>PHYS 2124</u> ^T	4	<u>PHYS 2014</u> or <u>PHYS 2114</u> ^T	4
<u>CHEM 2124</u> ^T	4	<u>CHEM 2134</u> ^T	4	<u>CHEM 3254</u>	4	<u>CHEM 3264</u> ^T	4
<u>Social Sciences</u> ^{1,T}	3	<u>PHSC 1001</u>	1	<u>CHEM 3245</u>	5	<u>COMS 2003</u> or <u>COMS 2803</u> ^T	3
<u>PHSC 1011</u>	1	<u>BIOL 1114</u> ^T	4				
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours	14
Junior		Senior		Freshman		Sophomore	
Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>CHEM 4401</u>	1	<u>CHEM 4414</u>	4
Elective ^{4,T}	5	Science Elective ²	3	CHEM Elective ³	3	CHEM Elective ³	3
<u>CHEM 3344</u>	4	<u>CHEM 3301</u>	1	<u>Social Sciences</u> ^{1,T}	3	Elective ⁴	9
		Elective ^{4,T}	1	Elective ⁴	9		
		<u>CHEM 3324</u>	4				
		<u>CHEM 3423</u>	3				
Total Hours	12	Total Hours	15	Total Hours	16	Total Hours	16

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

²Science electives from BIOL, GEOL, PHYS, PHSC (excluding BIOL 1014, PHSC 1013, and PHSC 1021), and excluding CHEM.

³Excluding CHEM 1113 and CHEM 1111.

⁴German, Statistics, and Technical Communications are encouraged. (Electives must include sufficient upper-division courses to result in 40 upper division hours) (upper division = 3000-4000 level).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Chemistry (Environmental Option)

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>PHSC 1001</u>	1	<u>Social Sciences</u> ^{1,T}	3
<u>ENGL 1013</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3
<u>MATH 2243</u>	3	<u>MATH 2163</u> or <u>PSY 2053</u>	3
<u>CHEM 2124</u> ^T	4	<u>COMS 2003</u> or <u>COMS 2803</u>	3
		<u>CHEM 3245</u>	5
		<u>CHEM 3313</u>	4
		<u>CHEM 2134</u> ^T	4
		<u>CHEM 3254</u>	4
		<u>CHEM 2111</u>	1
		<u>CHEM 3245</u>	5
		<u>CHEM 3264</u>	4
		<u>PHYS 2024</u> ^T	4

<u>PHSC 1004</u> ^T	4	<u>ECON 2003</u> ^T	3	<u>PHYS 2014</u> ^T	4		
		<u>PHSC 1011</u>	1				
Total Hours	15	Total Hours	17	Total Hours	17	Total Hours	14
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>CHEM 3111</u>	1	<u>CHEM 4414</u>	4	<u>CHEM 4111</u>	1
<u>ENGL 2053</u>	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>BIOL 3054</u>	4	<u>POLS 4103</u>	3
<u>BIOL 2124</u>	4	<u>BIOL 2134</u>	4	<u>BIOL 3114</u>	4	<u>CHEM 4991-4</u>	1-4
<u>CHEM 3353</u>	3	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>GEOL 3083</u>	3	Elective ^T	3-6
<u>GEOL 1014</u> ^T	4	<u>BIOL 3043</u>	3				
Total Hours	17	Total Hours	14	Total Hours	15	Total Hours	11

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>CHEM 2111</u>	1	<u>PHYS 2014</u> ^T	4
<u>MATH 2243</u>	3	<u>PHSC 1004</u> ^T	4	<u>CHEM 3313</u>	3	<u>CHEM 3254</u>	4
<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>CHEM 2134</u> ^T	4	<u>CHEM 3245</u>	5	<u>COMS 2003</u> or <u>COMS 2803</u> ^T	3
<u>CHEM 2124</u> ^T	4	<u>PHSC 1001</u>	1	<u>MATH 2163</u> or <u>PSY 2053</u>	3	<u>BIOL 2124</u>	4
<u>PHSC 1011</u>	1	<u>U.S. History/Government</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3		
<u>Social Sciences</u> ^{1,T}	3						
Total Hours	17	Total Hours	15	Total Hours	15	Total Hours	15
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>PHYS 2024</u> ^T	4	<u>BIOL 3043</u>	3	<u>CHEM 4111</u>	1	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>CHEM 3264</u>	4	<u>CHEM 3353</u>	3	<u>BIOL 3054</u>	4	<u>GEOL 3083</u>	3
<u>CHEM 3111</u>	1	<u>GEOL 1014</u> ^T	4	<u>CHEM 4991-4</u>	1-4	<u>CHEM 4414</u>	4
<u>BIOL 2134</u>	4	<u>BIOL 3114</u>	4	Elective ^T	3-6	<u>POLS 4103</u>	3
<u>ENGL 2053</u>	3	<u>ECON 2003</u> ^T	3				
Total Hours	16	Total Hours	17	Total Hours	12	Total Hours	13

¹See appropriate choices, alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Chemistry (Professional Option)

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3
<u>MATH 2914</u> ^T	4	<u>MATH 2924</u> ^T	4	<u>PHYS 2114</u> ^T	4	<u>PHYS 2124</u> ^T	4
<u>CHEM 2124</u> ^T	4	<u>CHEM 2134</u> ^T	4	<u>CHEM 3254</u>	4	<u>CHEM 3264</u>	4
<u>Social Sciences</u> ^{1,T}	3	<u>BIOL 1114</u> ^T	4	<u>COMS 2003</u> or <u>COMS 2803</u> ^T	3	<u>CHEM 3245</u>	5
<u>PHSC 1001</u>	1	<u>PHSC 1011</u>	1	<u>MATH 2934</u>	4		

Total Hours	15	Total Hours	16	Total Hours	18	Total Hours	16
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>CHEM 3344</u>	4	<u>CHEM 4424</u>	4
CHEM Elective ²	3	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>CHEM 4414</u>	4	<u>CHEM 4992-4</u>	2-4
<u>CHEM 3301</u>	1	Elective ³	6	<u>CHEM 4401</u>	1	Elective ³	7-5
<u>CHEM 3324</u>	4	<u>CHEM 3334</u>	4	<u>CHEM 4433</u>	3		
<u>CHEM 3423</u>	3						
Total Hours	14	Total Hours	16	Total Hours	12	Total Hours	13

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>COMS 2003</u> or <u>COMS 2803</u> ^T	3
<u>MATH 2914</u> ^T	4	<u>MATH 2924</u> ^T	4	<u>CHEM 3245</u>	5	<u>MATH 2934</u>	4
<u>CHEM 2124</u> ^T	4	<u>CHEM 2134</u> ^T	4	<u>CHEM 3254</u>	4	<u>U.S. History/Government</u> ^{1,T}	3
<u>Social Sciences</u> ^{1,T}	3	<u>BIOL 1114</u> ^T	4	<u>PHYS 2124</u> ^T	4	<u>PHYS 2114</u> ^T	4
<u>PHSC 1011</u>	1	<u>PHSC 1001</u>	1		1	<u>CHEM 3264</u>	4
Total Hours	15	Total Hours	16	Total Hours	16	Total Hours	18
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>CHEM 3334</u>	4	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>CHEM 4424</u>	4	<u>CHEM 3344</u>	4
<u>Fine Arts & Humanities</u> ^{1,T}	3	CHEM Elective ²	3	<u>CHEM 4992-4</u>	2-4	<u>CHEM 4414</u>	4
<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>CHEM 3301</u>	1	Elective ³	7-5	<u>CHEM 4401</u>	1
Elective ³	6	<u>CHEM 3324</u>	4			<u>CHEM 4433</u>	3
		<u>CHEM 3423</u>	3				
Total Hours	16	Total Hours	14	Total Hours	13	Total Hours	12

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

²Excluding CHEM 1113 and CHEM 2204.

³German, Statistics, and Technical Communications are encouraged. (Electives must include sufficient upper division courses to result in 40 upper division hours) (upper division = 3000-4000 level)

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Chemistry (Biochemistry Option)

Degree Completion Plan Beginning in Fall Semester

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3
<u>MATH 2914</u> ^T	4	<u>MATH 2924</u> ^T	4	<u>PHYS 2014</u> or <u>PHYS 2114</u> ^T	4	<u>PHYS 2024</u> or <u>PHYS 2124</u> ^T	4
<u>CHEM 2124</u> ^T	4	<u>CHEM 2134</u> ^T	4	<u>CHEM 3254</u>	4	<u>CHEM 3264</u>	4
<u>Social Sciences</u> ^{1,T}	3	<u>BIOL 1114</u> ^T	4	<u>COMS 2003</u> or <u>COMS 2803</u> ^T	3	<u>CHEM 3245</u>	5
<u>PHSC 1001</u>	1	<u>PHSC 1011</u>	1				
Total Hours	15	Total Hours	16	Total Hours	14	Total Hours	16
Junior				Senior			

Fall	Spring	Fall	Spring
<u>Fine Arts & Humanities</u> ^{1,T} 3	<u>CHEM 3363</u> 3	<u>CHEM 3324</u> 4	Elective ² 3
<u>BIOL 2124</u> 4	<u>BIOL 2134</u> 4	<u>CHEM 4414</u> 4	<u>Fine Arts & Humanities</u> ^{1,T} 3
<u>CHEM 3301</u> 1	<u>BIOL 3034</u> 4	Elective ² 4	<u>BIOL 4033</u> 3
<u>CHEM 3344</u> 4	<u>CHEM 3423</u> 3	<u>BIOL 3124</u> or <u>BIOL 3174</u> 4	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T} 3
Elective ^{2,T} 4			<u>CHEM 4401</u> 1
Total Hours 16	Total Hours 14	Total Hours 16	Total Hours 13

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T} 3	<u>ENGL 1023</u> ^{1,T} 3	<u>Social Sciences</u> ^{1,T} 3	<u>U.S. History/Government</u> ^{1,T} 3
<u>MATH 2914</u> ^T 4	<u>MATH 2924</u> ^T 4	<u>PHYS 2024</u> or <u>PHYS 2124</u> ^T 4	<u>PHYS 2014</u> or <u>PHYS 2114</u> ^T 4
<u>CHEM 2124</u> ^T 4	<u>CHEM 2134</u> ^T 4	<u>CHEM 3254</u> 4	<u>CHEM 3264</u> 4
<u>Social Sciences</u> ^{1,T} 3	<u>PHSC 1001</u> 1	<u>CHEM 3245</u> 5	<u>COMS 2003</u> or <u>COMS 2803</u> ^T 3
<u>PHSC 1011</u> 1	<u>BIOL 1114</u> ^T 4		
Total Hours 15	Total Hours 16	Total Hours 16	Total Hours 14
Junior		Senior	
Spring	Fall	Spring	Fall
<u>Fine Arts & Humanities</u> ^{1,T} 3	<u>Fine Arts & Humanities</u> ^{1,T} 3	<u>CHEM 3363</u> 3	<u>BIOL 3124</u> or <u>BIOL 3174</u> 4
Elective ^{2,T} 4	<u>CHEM 3344</u> 4	<u>BIOL 4033</u> 3	<u>CHEM 4414</u> 4
<u>BIOL 2124</u> 4	<u>BIOL 2134</u> 4	Elective ² 3	<u>CHEM 4401</u> 1
<u>BIOL 3034</u> 4	<u>CHEM 3324</u> 4	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T} 3	Elective ² 4
	<u>CHEM 3301</u> 1	<u>CHEM 3423</u> 3	
Total Hours 15	Total Hours 16	Total Hours 15	Total Hours 13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

²German, Statistics, and Technical Communications are encouraged. (Electives must include sufficient upper-division courses to result in 40 upper division hours) (upper division = 3000-4000 level).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Chemistry

The minor in chemistry is designed for science majors who would like to further their studies in chemistry and for students who cannot complete a major in chemistry, but for employment opportunities, would like to gain basic knowledge and competencies in chemistry. The minor in chemistry requires the core chemistry courses:

*General Chemistry [CHEM 2124](#), [CHEM 2134](#)

*Organic Chemistry [CHEM 3254](#), [CHEM 3264](#)

*Quantitative Analysis [CHEM 3245](#)

Geology

The science of geology seeks to develop an understanding of the Earth's physical and chemical processes, environmental systems, and natural resources. Geologists work in a variety of areas, discovering new sources of fossil fuels, minerals, and economically important rocks. Volcanoes, earthquakes, landforms, surface and subsurface water, earth history, and fossils are all subjects for study. Also, geologists may work as members of an interdisciplinary team in planning construction projects, sanitary landfills, mine land reclamation, and other environmentally-oriented projects. Employment opportunities for geologists exist in private industry, state and federal government agencies, and teaching at all levels.

Geology students may follow programs designed to prepare them for entry into graduate school, employment in the geotechnical field, or secondary school earth science teaching. The best opportunities exist for students who continue their education and complete the master's or doctor's degree in geology. Major oil and gas companies generally require the master's degree for an entry-level position. Also, excellent employment opportunities are available in the environmental geotechnical field.

The geology major will study for a bachelor of science degree. This degree requires a minimum of 120 semester hours with a minimum of 43 semester hours in geology (professional option), or a minimum of 36 semester hours in geology (environmental option). Students interested in teaching as a profession should follow the Physical Science and Earth Science curriculum listed under teacher licensure curricula, College of Education. Additional departmental courses and related courses may be specified for geology majors following particular emphasis programs, and for some emphasis programs, substitutions of the above list may be required. Strongly recommended are calculus and/or statistics.

The geology program is fully interdisciplinary, and the student and his/her advisor can "build" an academic program through selection of appropriate electives to suit the special needs and interests of the student.

Curriculum in Geology (Professional Option)

Suggested Sequence of Courses

Freshman		Sophomore	
Fall	Spring	Fall	Spring
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3
PHSC 1001	1	Social Sciences/Speech ^{1,T}	3
Biological Science ^{1,T}	4	CHEM 2124 ^T	4
MATH 1113 ^T	3	GEOG 2001	1
GEOG 1014 ^T	4	GEOG 2013 ^T	3
		GEOG 3014	4
		Elective	3
		PHSC 1011	1
Total Hours	15	Total Hours	15
Junior		Senior	
Fall	Spring	Fall	Spring
PHYS 2014 ^T	4	Fine Arts & Humanities ^{1,T}	3
GEOG 3001	1	GEOG 4001	1
GEOG 3004	4	Elective(3000-4000 level)	3
GEOG 3023	3	Elective (3000-4000 level) or GEOG 4023 ⁴	3
GEOG 3044 or Elective (3000-4000 level) ⁴	4	Elective(3000-4000 level)	3
		Elective (3000-4000 level) or GEOG 3044 ⁴	4
Total Hours	16	Total Hours	11
Ninth Semester			
Summer (after Junior or Senior year)			
GEOG 4006 ³	6		
Total Hours	6		

¹See appropriate choices, alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

²[COMS 1003](#), [COMS 1103](#), [MATH 2914](#), or [MATH 2163](#).

³[GEOG 4006](#) (6 credit hours of field geology) must be completed during the summer after Junior or Senior year.

⁴Must complete both the GEOL class and one elective (GEOL course offered in alternating years).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Geology (Environmental Option)

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore					
Fall	Spring	Fall	Spring				
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>GEOG 2013</u> ^T	3	<u>POLS 2003</u> ^T	3
<u>PHSC 1001</u>	1	<u>COMS 1003</u> ^T	3	<u>ENGL 2053</u>	3	<u>CHEM 2134</u>	4
<u>PHSC 1004</u> ^T	4	<u>MATH 2163</u> or <u>PSY 2053</u> ^T	3	<u>CHEM 2124</u>	4	<u>BIOL 1014</u> ^T	4
<u>MATH 1113</u> ^T	3	<u>ECON 2003</u> ^T	3	<u>GEOG 3014</u>	4	<u>GEOG 3164</u>	4
<u>GEOG 1014</u> ^T	4	<u>GEOG 2024</u>	4			<u>GEOG 2111</u>	1
		<u>PHSC 1011</u>	1				
Total Hours	15	Total Hours	17	Total Hours	14	Total Hours	16
Junior		Senior					
Fall	Spring	Fall	Spring				
BIOL3043 or Elective (3000-4000 level) ²	3	<u>Fine Arts & Humanities</u> ^{1,T}	6	<u>BIOL 3043</u> or Elective (3000-4000 level) ²	3	<u>GEOG 3174</u>	4
<u>GEOG 3004</u>	4	<u>GEOG 3111</u>	1	<u>GEOG 3083</u>	3	<u>GEOG 4111</u>	1
<u>GEOG 3023</u>	3	<u>PHYS 2024</u> ^T	4	<u>CHEM 3254</u>	4	Science Elective ²	6
<u>GEOG 3044</u> or <u>GEOG 3153</u>	4-3	Science Elective ^{2,T}	2	<u>GEOG 3153</u> or <u>GEOG 3044</u>	3-4		
<u>PHYS 2014</u> ^T	4			<u>Social Sciences/Speech</u> ^{1,T}	3		
Total Hours	18-17	Total Hours	13	Total Hours	16-17	Total Hours	11

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore					
Spring	Fall	Spring	Fall				
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>ENGL 2053</u>	3	<u>MATH 2163</u> or <u>PSY 2053</u> ^T	3
<u>COMS 1003</u> ^T	3	<u>PHSC 1001</u>	1	<u>CHEM 2134</u>	4	<u>POLS 2003</u> ^T	3
<u>MATH 1113</u> ^T	3	<u>PHSC 1004</u> ^T	4	<u>GEOG 2111</u>	1	<u>GEOG 3014</u>	4
<u>BIOL 1014</u> ^T	4	<u>CHEM 2124</u> ^T	4	<u>ECON 2003</u> ^T	3	<u>PHYS 2014</u> ^T	4
<u>GEOG 2013</u> ^T	3	<u>GEOG 1014</u> ^T	4	<u>GEOG 2024</u>	4		
<u>PHSC 1011</u>	1						
Total Hours	17	Total Hours	16	Total Hours	15	Total Hours	14
Junior		Senior					
Spring	Fall	Spring	Fall				
<u>Fine Arts & Humanities</u> ^{1,T}	6	<u>Social Sciences/Speech</u> ^{1,T}	3	<u>GEOG 3174</u>	4	<u>GEOG 3083</u>	3
<u>GEOG 3111</u>	1	<u>GEOG 3004</u>	4	<u>GEOG 4111</u>	1	<u>GEOG 3153</u> or <u>GEOG 3044</u>	3-4
<u>GEOG 3164</u>	4	<u>GEOG 3023</u>	3	Science Elective ^{2,T}	5	Science Elective ²	3
<u>PHYS 2024</u> ^T	4	<u>BIOL 3043</u> or Elective (3000-4000 level) ²	3	<u>CHEM 3254</u>	4	<u>BIOL 3043</u> or Elective (3000-4000 level) ²	3
		<u>GEOG 3044</u> or <u>GEOG 3153</u>	4-3				
Total Hours	15	Total Hours	17-16	Total Hours	14	Total Hours	12-13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.*

²Electives in Physical or Life Sciences and Mathematics (Geology, Biology, Chemistry, and Math).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Curriculum in Geology (Petroleum Option)

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>POLS 2003</u> ^T	3	COMS Elective ^T	3
<u>PHSC 1001</u>	1	<u>GEOG 2013</u> ^T	3	<u>GEOL 2001</u>	1	<u>CHEM 2134</u>	4
<u>BIOL 1014</u> ^T	4	<u>MATH 1203</u> (or higher level-math course) ^T	3	<u>CHEM 2124</u>	4	<u>GEOL 3164</u>	4
<u>MATH 1113</u> ^T	3	<u>Social Sciences/Speech</u> ^{1,T}	3	<u>GEOL 3014</u>	4	<u>MATH 2914</u>	4
<u>GEOL 1014</u> ^T	4	<u>GEOL 2024</u>	4	<u>GEOL 3044</u>	4		
		<u>PHSC 1011</u>	1				
Total Hours	15	Total Hours	17	Total Hours	16	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
<u>Social Sciences/Speech</u> ^{1,T}	3	<u>GEOL 3124</u> or <u>GEOL 4023</u>	3-4	General Elective	6	<u>GEOL 3174</u> or <u>GEOL 4034</u>	4
<u>CHEM 3254</u>	4	<u>GEOL 3004</u>	4	<u>GEOL 4001</u>	1	<u>GEOL 3124</u> or <u>GEOL 4023</u>	3-4
<u>GEOL 3023</u>	3	<u>GEOL 3174</u> or <u>GEOL 4034</u>	4	<u>Fine Arts & Humanities</u> ^{1,T}	6		
<u>GEOL 3001</u>	1	<u>PHYS 2024</u> ^T	4				
<u>PHYS 2014</u> ^T	4						
Total Hours	15	Total Hours	15-16	Total Hours	13	Total Hours	7-8
Ninth Semester							
Summer (after Junior or Senior year)							
<u>GEOL 4006</u> ²	6						
Total Hours	6						
Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring		Fall		Spring		Fall	
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>POLS 2003</u> ^T	3	<u>MATH 2914</u>	4
<u>MATH 1113</u> ^T	3	<u>PHSC 1001</u>	1	<u>GEOL 2024</u>	4	<u>CHEM 2134</u>	4
<u>BIOL 1014</u> ^T	4	<u>MATH 1203</u> (or higher level-math course) ^T	3	<u>GEOL 3164</u>	4	<u>GEOL 3044</u>	4
<u>GEOL 1014</u> ^T	4	<u>GEOL 2001</u> ^T	1	<u>CHEM 2124</u>	4	<u>Social Sciences/Speech</u> ^{1,T}	3
<u>PHSC 1011</u>	1	<u>GEOL 3014</u> ^T	4				
		<u>GEOG 2013</u> ^T	3				
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	15
Junior				Senior			
Spring		Fall		Spring		Fall	
<u>Social Sciences/Speech</u> ^{1,T}	3	COMS Elective ^T	3	<u>GEOL 3174</u> or <u>GEOL 4034</u>	4	<u>GEOL 4001</u>	1
<u>GEOL 3124</u> or <u>GEOL 4023</u>	3-4	<u>PHYS 2014</u> ^T	4	<u>GEOL 3124</u> or <u>GEOL 4023</u>	3-4	<u>Fine Arts & Humanities</u> ^{1,T}	6
<u>GEOL 3174</u> or <u>GEOL 4034</u>	4	<u>GEOL 3023</u>	3	General Electives	3	General Elective	3

<u>GEOL 3004</u>	4	<u>CHEM 3254</u>	4	<u>PHYS 2024</u> ^T	4
		<u>GEOL 3001</u>	1		
Total Hours	14-15	Total Hours	15	Total Hours	14-15
		Total Hours		Total Hours	10

Ninth Semester

Summer (after Junior or Senior year)

<u>GEOL 4006</u> ²	6
Total Hours	6

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.*

²GEOL 4006 (6 credit hours of field geology) must be completed during the summer after Junior or Senior year

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Geology

The minor in geology is primarily designed for students who are majoring in disciplines where a broader background in geology can aid in recognizing and addressing geological hazards, natural disasters, environmental issues, natural resource management, conservation, and land use planning. The minor in geology requires 20 hours of courses:

*GEOL Electives (11 hours)

*GEOL Electives (9 hours of 3000 or 4000 level)

*no more than one credit hour can be a seminar course or special problem

Physical Science

The baccalaureate degree in physical science offers a program of study in which the student can elect a major emphasis in the physical sciences department. The curriculum is designed with enough flexibility so that students may prepare for a number of professions that require technical skills and a broad physical sciences background. It is well suited for students anticipating the teaching of science in the secondary schools and for students planning a military career as it affords a desirable general scientific background.

To qualify for a baccalaureate degree in physical science, the student must complete the following minimum number of semester hours: eight hours in biology, eight hours in chemistry, eleven hours in physics, four hours in geology, and eleven hours in mathematics. The student must also complete an additional 29 semester hours in four of the following subject areas: chemistry, engineering, geology, mathematics, physics, and physical science (PHSC 1004, PHSC 1013, PHSC 1021, GEOL 1004 may not be counted in these hours)

Curriculum in Physical Science (General Option)

Degree Completion Plan Beginning in Fall Semester					
Freshman		Sophomore			
Fall	Spring	Fall	Spring	Fall	Spring
<u>ENGL 1013</u> ^{1,T}	3	<u>ENGL 1023</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3
				<u>U.S. History/Government</u> ^{1,T}	3
<u>PHSC 1001</u>	1	<u>Social Sciences</u> ^{1,T}	3	<u>PHYS 2014</u> or <u>PHYS 2114</u> ^T	4
				<u>PHYS 2124</u> ^T	4
Biological Science ^{1,T}	4	<u>MATH 2914</u> ^T	4	<u>MATH 2924</u> ^T	4
				BIOL Elective	4
<u>CHEM 2124</u> ^T	4	<u>CHEM 2134</u> ^T	4	<u>Fine Arts & Humanities</u> ^{1,T}	3
				<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>MATH 1113</u> ^T	3	<u>PHSC 1011</u>	1	<u>GEOL 1014</u> ^T	4
Total Hours	15	Total Hour	15	Total Hours	18
				Total Hours	14
Junior		Senior			
Fall	Spring	Fall	Spring	Fall	Spring
PHSC/MATH/ENGR Elective ²	3	PHSC/MATH/ENGR Elective ²	3	Elective(3000-4000 level)	11
				<u>PHSC 3033</u>	3

<u>PHSC 3053</u>	3	PHSC/MATH Elective (3000-4000 level) ²	6	<u>PHYS 3213</u> or Elective (3000-4000 level) ³	3	PHSC/MATH Elective (3000-4000 level) ²	7
<u>PHYS 3213</u> or Elective (3000-4000 level) ³	3	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3			Elective	3
PHSC/MATH Elective (3000-4000 level) ²	4						
<u>COMS 2803</u>	3	Elective	3				
Total Hours	16	Total Hours	15	Total Hours	14	Total Hours	13

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore					
Spring	Fall	Spring	Fall				
<u>ENGL 1013</u> ^{1,T}	3	<u>PHSC 1001</u>	1	<u>Social Sciences</u> ^{1,T}	3	<u>U.S. History/Government</u> ^{1,T}	3
<u>MATH 1113</u> ^T	3	<u>ENGL 1023</u> ^{1,T}	3	<u>PHYS 2024</u> or <u>PHYS 2124</u> ^T	4	<u>PHYS 2014</u> or <u>PHYS 2114</u> ^T	4
Biological Science ^{1,T}	4	<u>Social Sciences</u> ^{1,T}	3	<u>MATH 2924</u> ^T	4	BIOL Elective	4
<u>CHEM 2124</u> ^T	4	<u>MATH 2914</u> ^T	4	<u>Fine Arts & Humanities</u> ^{1,T}	3	<u>Fine Arts & Humanities</u> ^{1,T}	3
<u>PHSC 1011</u>	1	<u>CHEM 2134</u> ^T	4			<u>GEOL 1014</u> ^T	4
Total Hours	15	Total Hours	15	Total Hours	14	Total Hours	18
Junior		Senior					
Spring	Fall	Spring	Fall				
PHSC/MATH/ENGR Elective ²	3	PHSC/MATH/ENGR Elective ²	3	<u>PHSC 3033</u>	3	Elective(3000-4000 level)	8
PHSC/MATH Elective (3000-4000 level) ²	3	<u>PHYS 3213</u> or Elective (3000-4000 level) ³	3	Elective (3000-4000 level) ³	3	PHSC/MATH Elective (3000-4000 level) ²	4
Elective	6	PHSC/MATH Elective (3000-4000 level) ²	6	PHSC/MATH Elective (3000-4000 level) ²	4	<u>PHYS 3213</u> or Elective (3000-4000 level) ³	3
<u>COMS 2803</u>	3	<u>PHSC 3053</u>	3	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3		
Total Hours	15	Total Hours	15	Total Hours	13	Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

²Excluding [MATH 3003](#), [MATH 3033](#), [MATH 4113](#), [PHSC 1013](#), and [PHSC 1021](#).

³Must complete both the PHYS class and one upper division elective (PHYS course offered in alternating years) (upper division = 3000-4000 level)

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Physics

The physics curriculum is designed to serve the needs of students in the fields of engineering, medicine, and other sciences. The junior and senior courses are tailored for students who desire a concentration in physics for a bachelor of science degree in physical science and/or wish to pursue graduate study in areas such as physics, meteorology, and astronomy.

To qualify for a bachelor of science degree in physical science, the student must take eight hours in chemistry, three hours in computer and information science, 25 hours in mathematics, and a minimum of 30 hours in physics. Twenty-two semester hours in these courses must be at the 3000 or 4000 level. A minimum of 38 hours must be taken in the Department of Physical Sciences.

Curriculum in Physics

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore	
Fall	Spring	Fall	Spring
PHSC 1001	1 PHSC 1011	1 COMS 2803	3 Biological Science ^{1,T}
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 PHYS 2114 ^T	4 PHYS 2124 ^T
MATH 1914 ^T	4 MATH 2914 ^T	4 MATH 2924 ^T	4 MATH 2934
Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3 Social Sciences ^{1,T}	3 Social Sciences ^{1,T}	3 U.S. History/Government ^{1,T}
CHEM 2124 ^T	4 CHEM 2134 ^T	4 Elective ³	3
Total Hours	15 Total Hours	15 Total Hours	17 Total Hours
Junior		Senior	
Fall	Spring	Fall	Spring
Fine Arts & Humanities ^{1,T}	3 Fine Arts & Humanities ^{1,T}	3 Elective ³	3 PHYS 4991 -4
MATH 3243	3 PHYS Elective (3000-4000 level)	3 MATH Elective (3000-4000 level) ²	3 MATH Elective (3000-4000 level) ²
PHYS 3023 or PHYS 3213	3 PHYS 3133 or PHYS 4013	3 PHYS 3213 or PHYS 3023	3 PHYS 4013 or PHYS 3133
PHYS Elective (3000-4000) or PHYS 4113 ⁴	3 ELEG 2113	3 PHYS Elective (3000-4000) or PHYS 4113 ⁴	3 Elective(3000-4000 level) ³
ELEG 2103	3 ELEG 2111	1 Elective (3000-4000 level) ³	3
	Elective ³	2	
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
PHSC 1011	1 PHSC 1001	1 COMS 2803	3 Biological Science ^{1,T}
ENGL 1013 ^{1,T}	3 ENGL 1023 ^{1,T}	3 PHYS 2124 ^T	4 PHYS 2114 ^T
MATH 1914 ^T	4 MATH 2914 ^T	4 MATH 2924 ^T	4 MATH 2934
Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3 Social Sciences ^{1,T}	3 Social Sciences ^{1,T}	3 U.S. History/Government ^{1,T}
CHEM 2124 ^T	4 CHEM 2134 ^T	4 Elective ³	3
Total Hours	15 Total Hours	15 Total Hours	17 Total Hours
Junior		Senior	
Spring	Fall	Spring	Fall
Fine Arts & Humanities ^{1,T}	3 Fine Arts & Humanities ^{1,T}	3 Elective ³	3 PHYS 4991 -4
MATH 3243	3 Elective ³	2 MATH Elective (3000-4000 level) ²	3 MATH Elective (3000-4000 level) ²
PHYS 3133 or PHYS 4013	3 PHYS 3023 or PHYS 3213	3 PHYS 4013 or PHYS 3133	3 PHYS 3213 or PHYS 3023
ELEG 2103	3 PHYS 4113 or PHYS Elective (3000-4000) ⁴	3 Elective(3000-4000 level) ³	3 PHYS 4113 or PHYS Elective (3000-4000) ⁴
PHYS Elective (3000-4000 level)	3 ELEG 2113	3	3 Elective(3000-4000 level) ³
	ELEG 2111	1	
Total Hours	15 Total Hours	15 Total Hours	12 Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

²Excluding [MATH 3003](#), [MATH 3033](#), and [MATH 4113](#).

³Seven hours of electives must be from physical sciences, biology, engineering, computer science.

⁴Must complete both the [PHYS 4113](#) and 3 hours PHYS electives (PHYS course offered in alternating years).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Nuclear Physics

The nuclear physics curriculum is designed to provide a baccalaureate degree program for persons employed or those interested in employment in the nuclear power industry. The program provides a combination of courses which form a firm theoretical foundation for those presently employed as nuclear power plant operators. Students without nuclear power industry experience or training will, in addition to the theoretical education provided through the program, receive sufficient training to enter nuclear power plant specific training. Graduates will also be prepared to enter a graduate school in nuclear physics or nuclear engineering.

Curriculum in Nuclear Physics

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
PHSC 1001	1	MCEG 2023	3	COMS 2803 ^T	3	Biological Science ^{1,T}	4
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	PHYS 2114 ^T	4	PHYS 2124 ^T	4
MATH 2914 ^T	4	MATH 2924 ^T	4	MATH 2934	4	MATH 3243	3
Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3	CHEM 2134 ^T	4	Social Sciences ^{1,T}	6	U.S. History/Government ^{1,T}	3
CHEM 2124 ^T	4	PHSC 1011	1				
Total Hours	15	Total Hours	15	Total Hours	17	Total Hours	14
Junior				Senior			
Fall		Spring		Fall		Spring	
PHYS 4113 or PHYS Elective ³	3	MCEG 3523 or PHYS 3033	3	PHYS elective (3000-4000) or PHYS 3213 ³	3	PHYS 4991-4	1-4
ELEG 2103	3	Fine Arts & Humanities ^{1,T}	3	Elective	3	Engineering Elective	3
MCEG 3503	3	MCEG 4403	3	MCEG 4323	3	MCEG 4443	3
MCEG 3313	3	ELEG 2111 and ELEG 2113	3	PHYS 4113 ³ or PHYS elective (3000-4000) ³	3	Fine Arts & Humanities ^{1,T}	3
PHYS 3213 or PHYS elective (3000-4000) ³	3			PHYS 3143 or ELEG 3103	3	PHYS Elective (3000-4000 level)	6-3
Total Hours	15	Total Hours	13	Total Hours	15	Total Hours	16
Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring		Fall		Spring		Fall	
PHSC 1011	1	MCEG 2023	3	COMS 2803 ^T	3	Biological Science ^{1,T}	4
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	PHYS 2124 ^T	4	PHYS 2114 ^T	4
MATH 2914 ^T	4	MATH 2924 ^T	4	MATH 2934	4	MATH 3243	3
Social Sciences/Fine Arts/Humanities/Speech ^{1,T}	3	PHSC 1001	1	Social Sciences ^{1,T}	6	U.S. History/Government ^{1,T}	3
CHEM 2124 ^T	4	CHEM 2134 ^T	4				4
Total Hours	15	Total Hours	15	Total Hours	17	Total Hours	14
Junior				Senior			

Spring	Fall	Spring	Fall
<u>Fine Arts & Humanities</u> ^{1,T} 3	<u>MCEG 4403</u> 3	<u>Fine Arts & Humanities</u> ^{1,T} 3	<u>MCEG 4323</u> 3
<u>MCEG 3313</u> 3	<u>MCEG 3503</u> 3	<u>MCEG 4443</u> 3	<u>ELEG 3103</u> or <u>PHYS 3143</u> 3
<u>ELEG 2103</u> 3	PHYS Elective (3000-4000) or <u>PHYS 4113</u> ³ 3	Elective 3	PHYS Elective (3000-4000) or <u>PHYS 4113</u> ³ 3
<u>MCEG 3523</u> or <u>PHYS 3033</u> 3	<u>ELEG 2111</u> and <u>ELEG 2113</u> 4	Engineering Elective 3	PHYS Elective (3000-4000 level) 6-3
	<u>PHYS 3213</u> or PHYS elective (3000-4000) ³ 3	<u>PHYS 4991-4</u> 3	PHYS elective (3000-4000) or <u>PHYS 3213</u> ³ 3
Total Hours	12 Total Hours	16 Total Hours	13-16 Total Hours

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

²Excluding MATH 3003, MATH 3033, and MATH 4113.

³Must complete both the PHYS class and one PHYS upper division elective (PHYS course offered in alternating years). (upper division = 3000-4000 level courses).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Physical Science

The minor in physical science is for students wishing to obtain additional background to enhance their employment opportunities. The minor in physical science requires 20 hours of courses:

*Electives (11 hours chosen from CHEM, GEOL, PHSC, or PHYS)

*Electives (9 hours of 3000 or 4000 level chosen from CHEM, GEOL, PHSC, or PHYS)

*No more than one credit hour can be a seminar course or special problem

Engineering Physics

Students graduating with an engineering physics degree will be well qualified for jobs requiring highly technical skills and theoretical knowledge. Also, the degree program will prepare students for graduate studies in the fields of physics and engineering. However, those interested in employment immediately after graduation will have numerous alternatives for career choices. Job opportunities for an engineering physics graduate could include employment in industries such as: McDonnell Douglas/Boeing, Texas Instruments, Honeywell, Microsoft, Polaroid, Union Carbide, National Institute of Standards & Technology, Entergy, Tennessee Valley Authority, and Dow Chemical. Also, government agencies such as NASA, National Bureau of Standards, Office of Naval Research, Department of Energy, etc., provide additional employment opportunities for engineering physics graduates.

To qualify for a baccalaureate degree in engineering physics, the student must complete eight hours in chemistry, three hours in computer and information science, 18 hours in mathematics, 33 hours in physics (including the core physics courses), and 26 hours in engineering.

Curriculum in Engineering Physics

Degree Completion Plan Beginning in Fall Semester			
Freshman		Sophomore	
Fall	Spring	Fall	Spring
<u>PHSC 1001</u>	1 <u>PHSC 1011</u>	1 <u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T} 3	3 <u>Social Sciences/Fine Arts/Humanities/Speech</u>
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>PHYS 2114</u> ^T	4 <u>PHYS 2124</u> ^T
<u>MATH 2914</u> ^T	4 <u>MATH 2924</u> ^T	4 <u>MATH 2934</u>	4 <u>MATH 3243</u>
<u>COMS 2803</u> ^T	3 <u>MCEG 2023</u>	3 Biological Science ^{1,T}	4 Elective
<u>CHEM 2124</u> ^T	4 <u>CHEM 2134</u> ^T	4	
Total Hours	15 Total Hours	15 Total Hours	15 Total Hours
Junior		Senior	

Fall		Spring		Fall		Spring
<u>PHYS 3023</u> or <u>PHYS 3213</u>	3	<u>PHYS 4013</u> or <u>PHYS 3133</u>	3	<u>PHYS 3213</u> or <u>PHYS 3023</u>	3	<u>PHYS 3133</u> or <u>PHYS 4013</u>
<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>PHYS 4003</u> or <u>PHYS 3003</u>	3	<u>PHYS 4991</u>	1	<u>PHYS 4003</u> or <u>PHYS 3003</u>
<u>ELEG 2103</u>	3	<u>ELEG 2113</u>	3	ELEG/MCEG Elective (3000-4000 level)	3	ELEG/MCEG Elective (3000-4000 level)
<u>PHYS 4113</u> ⁴ or MATH (3000-4000 level) ²	3	<u>ELEG 2111</u>	3	MATH (3000-4000 level) ² or <u>PHYS 4113</u> ⁴	3	<u>ELEG/MCEG 4991</u>
<u>PHYS 4213</u> or <u>MCEG 3013</u> ³	3	<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3	<u>MCEG 3013</u> ³ or <u>PHYS 4213</u>	3	<u>MCEG 4403</u> ³
				<u>U.S. History/Government</u> ^{1,T}	3	<u>MCEG 4443</u>
Total Hours	15	Total Hours	13	Total Hours	16	Total Hours

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore	
Spring	Fall	Spring	Fall
<u>ENGL 1013</u> ^{1,T}	3 <u>ENGL 1023</u> ^{1,T}	3 <u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	6 <u>Social Sciences/Fine Arts/Humanities/Speech</u>
<u>MATH 2914</u> ^T	4 <u>MATH 2924</u> ^T	4 <u>PHYS 2124</u> ^T	4 <u>PHYS 2114</u> ^T
<u>COMS 2803</u> ^T	3 <u>MCEG 2023</u>	3 <u>MATH 2934</u>	4 <u>MATH 3243</u>
<u>CHEM 2124</u> ^T	4 <u>CHEM 2134</u> ^T	4 Biological Science ^{1,T}	4 Elective
<u>PHSC 1011</u>	1 <u>PHSC 1001</u>	1	
Total Hours	15	Total Hours	18
Junior		Senior	
Spring	Fall	Spring	Fall
<u>PHYS 4013</u> or <u>PHYS 3133</u>	3 <u>PHYS 3133</u> or <u>PHYS 4013</u>	3 <u>PHYS 3133</u> or <u>PHYS 3213</u>	3 <u>PHYS 4013</u> or <u>PHYS 3023</u>
<u>PHYS 4003</u> or <u>PHYS 3003</u>	3 <u>ELEG 2113</u>	3 <u>PHYS 3003</u> or <u>PHYS 4003</u>	3 ELEG/MCEG Elective (3000-4000 level)
<u>ELEG 2103</u>	3 <u>ELEG 2111</u>	1 <u>PHYS 4991</u>	1 <u>ELEG/MCEG 4991</u>
<u>Social Sciences/Fine Arts/Humanities/Speech</u> ^{1,T}	3 <u>PHYS 4113</u> ⁴ or MATH (3000-4000 level) ²	3 <u>MCEG 4403</u> ³	3 MATH (3000-4000 level) ²
	<u>PHYS 4213</u> or <u>MCEG 3013</u> ³	3 <u>MCEG 4443</u>	3 <u>PHYS 4113</u> ⁴
	<u>U.S. History/Government</u> ^{1,T}	3	3 <u>MCEG 3013</u> ³ or <u>PHYS 4213</u>
Total Hours	12	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as

²Excluding MATH 3003, MATH 3033, and MATH 4113.

³PHYS 3023 and PHYS 4003 will satisfy the prerequisites for MCEG 3013 and MCEG 4403 for engineering physics major.

⁴Must complete both the PHYS class and one MATH upper division elective (PHYS course offered in alternating years).

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Minor Engineering Physics

The minor in engineering physics is for engineering students or physical science students wishing to obtain additional background to support their major degree and enhance their employment opportunities. The minor in engineering physics requires 20 hours of courses:

*PHYS Electives (11 hours)

*PHYS Electives (9 hours of 3000 or 4000 level)

*No more than one credit hour can be a seminar course or special problem

College of Professional Studies and Community Outreach

The College of Professional Studies and Community Outreach offers a broad range of credit, non-credit, special interest, professional development, management, leadership, and leisure-learning courses. The College is responsive to the needs of the area and strives to offer programs and services which support a diverse target audience including business and industry, educational and government agencies, professional groups and associations, and the general community.

Dr. Mary Ann Rollans, Dean
61 Lake Point
Conference Center
(479) 968-0318
mrollans@atu.edu
Fax: (479) 968-0205

Mission Statement

The mission of the College of Professional Studies and Community Outreach is to provide participating students with a theoretical and practical educational foundation to enhance their current professional capabilities as well as prepare them for new career opportunities in highly specialized technical and service industry positions.

Programs of Study

The Department of Professional Studies offers programs of study leading to baccalaureate and associate degrees as listed below:

Bachelor of Professional Studies

Professional Studies
(Areas of Concentration)
Agriculture Business
Criminal Justice
Early Childhood Education
Industrial/Organizational Psychology
Information Technology
Interdisciplinary Studies
Public Relations

Associate of Science

[Early Childhood Education](#)

Bachelor of Professional Studies

The Bachelor of Professional Studies (BPS) is an online Accelerated Degree Program (ADP) which offers a flexible degree completion path addressing the unique needs of particular target groups. The accelerated delivery format is designed to ease the financial, time, and geographic constraints adults face in completing a baccalaureate program. Students complete the necessary hours for the degree within a convenient yet directed scheduling format under the guidance of advisors who understand the unique needs of the adult learner. The primary target groups include:

- Students graduating from community colleges
- Adults pursuing full-time careers or raising their families
- Degree “stop-outs” who began but never completed a bachelor's degree
- Individuals who have accumulated hours that cannot be applied toward a specific major
- Entering freshmen seeking maximum diversity for career decisions.

The degree's focus is to successfully prepare graduates for entry or advancement in government, nonprofit, corporate, or industrial careers. The curriculum is designed to enhance workplace skills such as planning, organizational behavior, ethics, needs assessment, problem solving, communications, human resources, and technology applications.

Students may select one of the following concentration areas: agriculture business, early childhood education, information technology, industrial/organizational psychology, criminal justice, interdisciplinary studies, or public relations. The degree will follow the same guidelines as all other bachelor's degrees in requiring 35 hours of general education coursework and a minimum of 40 hours of upper division courses.

Mr. Jeff Aulgur, Head
61 Lake Point
Conference Center
(479) 356-2095
jaulgur@atu.edu
Fax (479) 968-0205

Assistant Professors:
Aulgur, Giroir, Stuckey
Instructor:
Saxton

Prior Learning Assessment (PLA)

A Prior Learning Assessment (PLA) process is available which will award up to 12 hours of upper-division credit for relevant work experience, professional development, or military training through a portfolio course which provides the required documentation for determining the number of hours of credit which can be awarded.

Learning Objectives for Professional Studies Degree

- Communication: Student will demonstrate competency in public presentation and written communication skills.
- Research: Student will apply empirical research to recommend relevant strategies for solving problems.
- Leadership/Critical Thinking: Student will assume a leadership role in identifying and addressing issues in a real-world environment.
- Project Management: Student will create, plan, and implement relevant strategies needed to develop a business proposal.

Curriculum in Professional Studies

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall		Spring		Fall		Spring	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Elective	3	Fine Arts & Humanities ^{1,T}	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	ENGL 2053 ^T	3	Specialty Course	3
Social Sciences ^{1,T}	3	Social Sciences ^{1,T}	3	Speech ^{1,T}	3	Technical Course ^{2,T}	3
Specialty Course	3	Mathematics ^{1,T}	3	Specialty Course	3	U.S. History/Government ^{1,T}	3
COMS 1003 or BUAD 2003 ^T	3	Specialty Course	3	Fine Arts & Humanities ^{1,T}	3	Elective (3000-4000 Level)	3
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	15
Junior				Senior			
Fall		Spring		Fall		Spring	
Specialty Course	3	Technical Courses ^{2,T}	6	PS 3003	3	PS 4003	3
PS 3133	3	Elective (3000-4000 Level)	3	Technical Courses ²	6	Technical Courses ²	9
Technical Courses ^{2,T}	6	PS 3023	3	Elective (3000-4000 Level)	3	Elective (3000-4000 Level)	1
Elective (3000-4000 Level)	3	PS 3143	3	Specialty Course	3		
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13
Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring		Fall		Spring		Fall	
ENGL 1013 ^{1,T}	3	ENGL 1023 ^{1,T}	3	Elective	3	Fine Arts & Humanities ^{1,T}	3
Science with Lab ^{1,T}	4	Science with Lab ^{1,T}	4	ENGL 2053 ^T	3	Specialty Course	3
Social Sciences ^{1,T}	3	Social Sciences ^{1,T}	3	Speech ^T	3	Technical Courses ^{2,T}	3
Specialty Course	3	Mathematics ^{1,T}	3	Specialty Course	3	U.S. History/Government ^{1,T}	3
COMS 1003 or BUAD 2003 ^T	3	Specialty Courses ²	3	Fine Arts & Humanities ^{1,T}	3	Elective (3000-4000 Level)	3
Total Hours	16	Total Hours	16	Total Hours	15	Total Hours	15
Junior				Senior			
Spring		Fall		Spring		Fall	
Specialty Course	3	Technical Courses ^{2,T}	6	PS 3003	3	PS 4003	3
PS 3023	3	Elective (3000-4000 Level)	6	Technical Courses ²	6	Technical Courses ²	9

Technical Courses ²	6	PS 3143	3	Elective (3000-4000 Level)	3	Elective (3000-4000 Level)	1
PS 3133	3			Specialty Course	3		
Total Hours	15	Total Hours	15	Total Hours	15	Total Hours	13

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Technical courses taken as part of an associate degree or from a community college may be transferred into the BPS degree.

³At least 40 of the total hours required for graduation must be 3000-4000 level courses: no more than 30 hours of electives towards the degree may be taken from the College of Business.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Specialty/Concentration Areas:

Early Childhood Education: 18 hours

Take: [ECED 2001](#) and [ECED 2002](#) (concurrent enrollment); [ECED 3023](#) and [ECED 3033](#) (concurrent enrollment); [EDMD 3013](#), [MATH 2033](#), and [BIOL 3213](#).

Industrial/Organizational Psychology: 19 hours

Take: [PSY 2003](#), [PSY 2053](#), [PSY 2074](#) and 9 hours from the following: [PSY 2023](#), [PSY 3093](#), [PSY 4033](#), [PSY 4043](#), [PSY 4234](#).

Public Relations: 18 hours

Take: [COMS 2003](#), [SPH 3033](#), [SPH 4153](#), [JOUR 3173](#), [JOUR 3273](#), and [JOUR 4173](#).

Information Technology: 19 hours

Take: [COMS 1333](#), [COMS 1403](#), [COMS 1411](#), [COMS 2003](#), [COMS 2233](#), [COMS 2700](#), [COMS 2703](#), and 3 hours COMS elective credit.

Criminal Justice: 18 hours

Take: [CJ 2003](#), [CJ 2043](#), [CJ 3023](#), [CJ 3103](#), [CJ 3153](#) and 3 hours of CJ elective.

Agriculture Business: 18 hours

Take: [AGBU 2063](#), [AGBU 2073](#), [AGBU 3133](#), [AGBU 4003](#), [AGBU 4013](#), and [AGBU 4023](#).

Interdisciplinary Studies: 18 hours

(Courses selected with advisor approval)

Early Childhood Education

Associate of Science

The Associate of Science in Early Childhood Education is an online degree structured to provide a seamless acquisition of academic requirements for various career levels in occupations related to child care and early childhood education in the public and private sectors. The early childhood education courses provide the academic requirements for meeting assessment guidelines for the Child Development Associate (CDA) credential. The general education courses can be applied toward the Bachelor of Professional Studies degree in Early Childhood Education.

Assistant Professors:
Aulgur, Giroir

Learning Objectives for Early Childhood Education Degree

- Demonstrate knowledge and understanding of child development and learning
- Know about, understand, and value the role of a child's family, culture, and community in children's lives
- Work cooperatively with parents, using an understanding of the family as a context for young children's development
- Demonstrate knowledge, skills, and dispositions of a reflective early childhood practitioner
- Demonstrate knowledge of health, safety, nutrition, and administrative guidelines
- Develop a thorough understanding of child development and the value of play in children's learning
- Design developmentally-appropriate curriculum and classroom practices
- Adhere to ethical practices in the field of early childhood education

Curriculum in Early Childhood Education

Suggested Sequence of Courses

Freshman		Sophomore					
Fall	Spring	Fall	Spring	Spring			
ENGL 1013	3	ENGL 1023	3	Fine Arts & Humanities ^{1,T}	6	U.S. History/Government ^{1,T}	3
Mathematics ^{1,T}	3	Science with Lab ^{1,T}	4	ECE 2513	3	ECE 2991 -g ²	9
Science with Lab ^{1,T}	4	Speech ^{1,T}	3	ECE 2613	3	NUR 2303 ¹	3

<u>Social Sciences</u> ^{1,T}	3	<u>Social Sciences</u> ^{1,T}	3		
<u>ECE 2113</u>	3	<u>ECE 2313</u>	3		
<u>TECH 1001</u>	1				
Total Hours	17	Total Hours	16	Total Hours	12
				Total Hours	15

¹See appropriate alternatives or substitutions in "[General Education Requirements](#)".

²Enrollment must be approved by advisor.

^TDesignates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university.

Center for Energy, eTECH, Military Science, and ATU Museum

Arkansas Center for Energy, Natural Resources, and Environmental Studies

The Center, with the cooperation of various components of Arkansas Tech University, other state agencies and institutions, and professional staff, has the responsibility of planning and conducting competent research, investigations, demonstrations, and experiments of either a basic or applied nature, or both, in relation to energy, natural resources and the environment. The Center is committed to providing Arkansas Tech University students opportunities for involvement in these various projects.

Dr. Jason Patton, Interim Director

Additional information may be obtained by writing or calling Dr. Jason Patton at the Arkansas Center for Energy, Natural Resources and Environmental Studies, 1701 N. Boulder Avenue, Russellville, Arkansas 72801; telephone (479) 968-0676.

eTech (The Distance and Electronic Learning Program of Arkansas Tech University)

The distance and electronic learning program of Arkansas Tech University (eTech) was established in response to the changing higher education environment. The courses and programs offered through eTech are an integral part of the overall academic program at Arkansas Tech University. The goal of eTech is to provide a single focal point for online resources that are made available to extend the instructional programs of Arkansas Tech University. Courses offered through eTECH are fully accredited and, in some cases, an entire degree may be completed electronically without the need for actually visiting the campus.

Undergraduate students who require remediation, as determined by ACT scores, must check with the Office of the Registrar (479-968-0272, <http://www.atu.edu/registrar/contact.shtml>) to determine eligibility to enroll in eTech courses.

Students interested in an electronic degree program may apply for admission through the eTech Web Site <http://etech.atu.edu>, or by visiting the campus.

Military Science

Arkansas Tech University students may enroll in military science courses offered on the Arkansas Tech Campus by the Department of Military Science at the University of Central Arkansas at Conway under a cross enrollment agreement. The objective of the department is to provide a basic military education and, in conjunction with the goals of Tech, to develop individual attributes essential to an Army officer. Instruction covers military fundamentals common to all branches of the military service.

Reserve Officers' Training Corps
Adjunct Faculty
Bryan Hall, Room 118
(479) 498-6069 (Tech)
(501) 450-3145 (UCA)

Courses are open to all students. Requirements for enrollment in military science courses are as follows:

1. Student must be enrolled at Tech and remain at or above the University's probationary level.
2. When contracted by the Department of Military Science, students must have a cumulative grade point average of at least 2.00; ROTC scholarship recipients must maintain a 2.50 GPA or better. Registration for military science courses is accomplished at the same time and in the same manner as registration for other courses through Tech. Students interested in this program may obtain further information by contacting the ROTC Department at (479) 498-6069.

Arkansas Tech Museum

The mission of the Museum is to provide a center for collection, conservation, interpretation, and research concerned with the History of Arkansas Tech University and the stories of the people and partners that comprise that history. This knowledge and interpretation focuses on the establishment, history, and development of Arkansas Tech University, seeking to tell a compelling story of the places, events, and individuals making up the University's history to the community served by Arkansas Tech University.

The museum officially opened in April 1992 and accepts visitors between the hours of 8:30 a.m. and 4:30 p.m., Tuesday through Thursday, as well as by special arrangement, for evening lectures, and through events. Examples of events are Homecoming, and *Art and Architecture: A Student Exhibition* held each spring as a cooperative program with the Art Department. Each Spring semester, the Museum offers a course entitled Interpretation/Education through Museum Methods as

Judith C. Stewart-Abernathy,
Director
1502 North El Paso Avenue
Techionery - Museum
(479) 964-0826
<http://museum.atu.edu>

Theresa Jureka-Johnson,
Education Coordinator
Donna Park,
Collections Manager
Natasha Scruggs,
Collections Assistant/GA

MUSM (ANTH, HIST) 4403 (5403). The retail aspect of the Museum is ***The Museum Store***, which serves as a conservation supplies and resource center providing advice and archival storage materials to care for family keepsakes and serve area nonprofits with collections storage solutions. Publications about Tech History are also carried by the ***Store***.

Course Descriptions

In this section of the catalog, all courses taught at Arkansas Tech University are listed alphabetically by subject area. Courses fulfilling subject matter requirements in more than one area are cross-listed; e.g., the listing POLS(HIST) 4043 is offered for three semester hours of credit in either political science or history. For departmental write-ups and detailed curricula of programs of study, see the appropriate division of the preceding section.

Course numbers are to be interpreted as follows:

The first digit refers to the level of the course: 1-freshman, 2-sophomore, 3-junior, 4-senior; 0-designates a course that cannot be used to satisfy general education requirements nor provide credit toward any degree.

Normally, the middle two digits merely differentiate the course from others and have no meaning for the student, and the last digit refers to the number of hours of credit allowed for the course. Exceptions to this include internships, externships, practicums and variable credit classes where hours earned can be 10 or more. In these cases, the last two numbers refer to the number of hours of credit allowed for the course.

Typically an hour of credit requires one hour of classroom work per week for the duration of a semester.

[\(ACCT\) Accounting](#)
[\(AGAS\) Agricultural Animal Science](#)
[\(AGBU\) Agricultural Business and Economics](#)
[\(AGED\) Agricultural Education](#)
[\(AGEG\) Agricultural Engineering/Mechanization](#)
[\(AGPM\) Agricultural Pest Management](#)
[\(AGPS\) Agricultural Plant Science](#)
[\(AGSS\) Agricultural Soil Science](#)
[\(AHS\) Allied Health Science](#)
[\(AMST\) American Studies](#)
[\(ANTH\) Anthropology](#)
[\(ART\) Art](#)
[\(BDA\) Business Data Analytics](#)
[\(BIOL\) Biology](#)
[\(BLAW\) Business Law](#)
[\(BUAD\) Business Administration](#)
[\(CHEM\) Chemistry](#)
[\(CHIN\) Chinese](#)
[\(CSP\) College Student Personnel](#)
[\(COMS\) Computer and Information Science](#)
[\(CJ\) Criminal Justice](#)
[\(CUL\) Culinary](#)
[\(DE\) Driver Education](#)
[\(ECE\) Early Childhood Education - Associate Degree Program](#)
[\(ECED\) Early Childhood Education - Bachelor Degree Program](#)
[\(ECON\) Economics](#)
[\(EDMD\) Educational Media](#)
[\(ELED\) Elementary Education](#)
[\(ELEG\) Electrical Engineering](#)
[\(EAM\) Emergency Administration and Management](#)
[\(ENGL\) English](#)
[\(FIN\) Finance](#)
[\(FW\) Fisheries and Wildlife Science](#)
[\(FR\) French](#)
[\(GEOG\) Geography](#)
[\(GEOL\) Geology](#)
[\(GER\) German](#)
[\(GRK\) Greek](#)
[\(HLED\) Health Education](#)
[\(HIM\) Health Information Management](#)
[\(HIST\) History](#)
[\(HONR\) University Honors](#)
[\(HA\) Hospitality Administration](#)
[\(HUM\) Humanities](#)
[\(ITAL\) Italian](#)
[\(JPN\) Japanese](#)
[\(JOUR\) Journalism](#)

[\(LAT\) Latin](#)
[\(LBMD\) Library Media](#)
[\(MGMT\) Management](#)
[\(MKT\) Marketing](#)
[\(MATH\) Mathematics](#)
[\(MCEG\) Mechanical Engineering](#)
[\(MEDT\) Medical Technology](#)
[\(MLED\) Middle Level Education](#)
[\(MS\) Military Science - ROTC](#)
[\(MUSM\) Museum](#)
[\(MUS\) Music](#)
[\(MUS\) Music - Musical Performance](#)
[\(MUS\) Music - Music Ensembles](#)
[\(NUR\) Nursing](#)
[\(NURN\) Nursing for Registered Nurses](#)
[\(PHIL\) Philosophy](#)
[\(PE\) Physical Education - Activities](#)
[\(PE\) Physical Education - Academic](#)
[\(PHSC\) Physical Science](#)
[\(PHYS\) Physics](#)
[\(POLS\) Political Science](#)
[\(PS\) Professional Studies](#)
[\(PSY\) Psychology](#)
[\(READ\) Reading](#)
[\(RP\) Recreation and Park Administration - Coeducational Activities](#)
[\(RP\) Recreation and Park Administration - Academic](#)
[\(RS\) Rehabilitation Science](#)
[\(RUSS\) Russian](#)
[\(SEED\) Secondary Education](#)
[\(SOC\) Sociology](#)
[\(SPAN\) Spanish](#)
[\(SPH\) Speech](#)
[\(TECH\) University Orientation](#)
[\(TH\) Theatre](#)
[\(VOBE\) Vocational Business Education](#)
[\(WS\) Wellness Science - Activities](#)
[\(WS\) Wellness Science - Academic](#)

Accounting Course Descriptions

(Additional prerequisites for 3000-level and 4000-level courses are listed in the [College of Business](#) section of this catalog.)

ACCT 2003: Accounting Principles I

Prerequisite: COMS 1003 or BUAD 2003

Fundamental process of accounting, books of original entry, preparation of working papers, adjusting entries, and financial statements for sole proprietorships.

Note: Accounting majors may not repeat this course to raise grade point in their major field after completing ACCT 3013.

ACCT 2013: Accounting Principles II

Prerequisite: ACCT 2003

Accounting processes applied to corporations and partnerships. Manufacturing cost, income tax, managerial reports, cash flow, and statement analysis.

Note: Accounting majors may not repeat this course to raise grade point in their major field after completing ACCT 3013.

ACCT 3003: Intermediate Accounting I

Prerequisites: ACCT 2013; junior standing in College of Business. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A comprehensive study of accounting theory governing preparation of financial statements with emphasis on conceptual framework, development of accounting standards, and the recording and reporting process. Cash, receivables, inventories, property, plant and equipment, intangible assets, and other selected topics.

ACCT 3013: Intermediate Accounting II

Prerequisites: ACCT 3003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Continuation of ACCT 3003. Topics covered include current and long-term liabilities, contingencies, stockholders' equity, earnings per share, temporary and long-term investments, revenue recognition, accounting changes, cash flows, statement analysis, and disclosure in financial reporting.

ACCT 3023: Accounting Information Systems

Offered: Spring

Prerequisites: MGMT 2013 and ACCT 3003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of accounting information processing, the systems concept, the analysis and design of accounting information systems, and database hardware and software technology as they apply to producing accounting information to be used in decision making.

ACCT 3043: Federal Taxes I

Prerequisites: ACCT 2013. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of federal income tax laws and their relationship to other forms of taxation with primary emphasis on the determination of federal income tax liability and tax planning for individuals.

ACCT 3053: Federal Taxes II

Prerequisites: ACCT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of federal income tax laws with primary emphasis on the determination of federal income tax liability and tax planning for entities other than individuals.

ACCT 3063: Managerial Accounting

Prerequisites: ACCT 2013. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of accounting principles, concepts and procedures as an aid to management for internal use in planning, controlling and decision making. Financial statements, cost accounting, cost behavior, budgets, capital expenditures, pricing decisions, and other selected topics will be covered.

ACCT 4003: Advanced Accounting I

Prerequisites: ACCT 3013. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A comprehensive study of complex accounting problems involving financial statement treatment of income taxes, pensions, and leases. Problems underlying accounting for partnerships, corporate liquidations and reorganization, and estates and trusts are examined.

ACCT 4013: Advanced Accounting II

Prerequisites: ACCT 3013. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A comprehensive study of complex problems involving mergers and acquisitions, consolidated financial statements, segment and interim reporting, multinational accounting, SEC, and accounting theory.

ACCT 4023: Cost Accounting

Offered: Spring

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Basic principles of cost accounting, departmentalization, budgets, standard cost, variance analysis, job order and process costs.

ACCT 4033: Auditing

Offered: Fall

Prerequisites: ACCT 3013. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Auditing procedures and concepts, audit working papers and reports, evaluation of internal controls, legal and ethical environment.

ACCT 4053: CPA Review

Offered: Spring

Prerequisites: ACCT 3043 and 4003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A review of problems relating to preparation for the C.P.A. examination. Emphasis on all four examination parts: practice auditing, law, and theory with concentration in theory and practice.

ACCT 4071,4072,4073: Seminar in Accounting

Prerequisites: Permission of the Department. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Accounting topics of current interest will be covered. Coverage will include international accounting practices, S.E.C., and accounting ethics. Cases and small group activities will be utilized. Participants will prepare and present written and oral reports on topics under study. Credit for one to three hours may be earned depending upon the material covered.

ACCT 4083,4086: Internship in Accounting

Prerequisites: Permission of the Accounting Department Head and senior standing. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A structured assignment which allows a senior accounting major to gain "real world" professional experience in an accounting position relating to an area of career interest. The student works full-time one semester in the office of a cooperating firm under the supervision of a member of management of that firm. An accounting faculty member will observe and consult with the student and the cooperating firm's management periodically during the period of internship. A term paper prepared by the student will be required.

ACCT 4093: Governmental Accounting

Prerequisites: ACCT 3013. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Study of GAAP underlying accounting for governmental/ nonprofit entities. Governmental, Proprietary, and Fiduciary funds along with Fixed Asset and Long-term Liability Account Groups are covered.

ACCT 4103: Special Topics in Accounting

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course provides in-depth exploration of selected accounting topics. The primary topic will vary from offering to offering; thus, the course may be taken more than once.

Agriculture Animal Science Course Descriptions

AGAS 1001: Principles of Animal Science Laboratory

Study of management and the facilities used in the production of beef cattle, swine, sheep, and horses.

Note: Laboratory mandatory for all animal science majors. Optional for others.

Laboratory two hours

AGAS 1014: Principles of Animal Science

A study of the American livestock industry and the scientific principles underlying the management and production of livestock and poultry.

Lecture three hours, laboratory two hours.

AGAS 2083: Feeds and Feeding

Prerequisites: AGAS 1014, CHEM 1114, or consent of instructor.

Principles of animal nutrition, characteristics of feed ingredients, feeding strategies, and formulation of rations for farm animals.

AGAS 3004: Reproduction in Farm Animals

Prerequisite: AGAS 1014 or consent of instructor.

Anatomy and physiology of the reproductive system of farm animals; to include a study of the causes of reproductive failure, management to improve reproductive efficiency, and practical training in pregnancy testing and artificial insemination of cattle.

Lecture three hours, laboratory two hours.

AGAS 3014: Beef Cattle Management

Prerequisite: AGAS 1014 or consent.

A study of practices in management of beef cattle including breeding, feeding, care and marketing, with emphasis on production in the South.

Lecture three hours, laboratory two hours.

AGAS 3104: Swine Management

Prerequisite: AGAS 1014 or consent of instructor.

A study of current practices during the farrowing, growing, and finishing phases of swine production. Topics covered include housing, feeding, scheduling, reproduction, disease control, and waste disposal.

Lecture three hours, laboratory two hours.

AGAS 3113: Light Horse Production

Prerequisite: AGAS 1014 or consent of instructor.

A study of breeding, feeding, management, and disease control practices in light horse production.

AGAS 3303: Poultry Management

Prerequisite: Junior standing or consent of instructor.

A study of the management practices involved in the various phases of the production of eggs, broilers, turkeys, and breeders.

AGAS 3323: Poultry Nutrition

Prerequisite: Junior standing or consent of instructor.

An introductory course in poultry nutrition. A study of the essential nutrients for poultry, available sources of these nutrients and formulation of diets that supply the nutrients in their appropriate amounts.

AGAS 3333: Poultry Processing and Product Technology

Prerequisite: Junior standing or consent of instructor.

A study in depth of the overall industry practices and problems covering the processing, handling, marketing, and preparation of poultry meat and by-products.

AGAS 4203: Livestock and Poultry Nutrition

Prerequisites: CHEM1114 and AGAS 2083 or consent of instructor.

Digestion, absorption of nutrients, and metabolism of farm animals. Includes a study of the requirements for maintenance, growth, activity, and reproduction of ruminants and non-ruminants.

AGAS 4403: Poultry and Livestock Disease

Prerequisite or Co-requisite: Junior standing or consent of the instructor

A study of the diseases of poultry and livestock, particularly those common to Arkansas and surrounding states. Emphasis will be placed on the recognition of the disease and methods to control and/or prevent the disease.

Agricultural Business/Economic Course Descriptions

AGBU 1001: Agriculture Orientation

Agriculture Orientation is a freshman course with attention given to sharing of possible solutions to individual problems. Learning experiences also include exploration of anticipated collegiate experiences for departmental majors in addition to post-graduation opportunities. Student and faculty interaction is stressed.

AGBU 1013: Principles of Agricultural Business

Overview of the economic theories associated with the production, consumption, and marketing of agricultural products, and with the policies designed to achieve efficiency and welfare goals in agriculture.

AGBU 2063: Principles of Agricultural Macroeconomics

Prerequisite: AGBU 1013

A study of macroeconomic variables that affect agriculture with emphasis on consumption, unemployment, inflation, government spending and taxes, investments, national income, and money and banking.

AGBU 2073: Principles of Agriculture Microeconomics

Prerequisite: AGBU 1013

A study of microeconomics variables that affect agriculture with emphasis on price determination, production, costs, income distribution, perfect and imperfect competition.

AGBU 3133: Intermediate Agricultural Macroeconomics

Prerequisite: AGBU 2063 and 2073 or consent of instructor.

A study of macroeconomic theory and its application to the agriculture industry.

AGBU 3213: Career Development in Agriculture

Prerequisite: Junior standing

Study of the professional opportunities and responsibilities associated with agricultural business careers. Interaction with professionals in the chosen career along with development and improvement of written communication, oral communication, and leadership skills.

AGBU 3993: Internship I in Agriculture

Prerequisite: Approval of the department head.

A supervised, practical experience providing undergraduate agribusiness majors with a hands-on, professional experience in a position relating to an area of career interest. The student will work in a local cooperating agribusiness establishment under the supervision of a member of management of that firm. A minimum of 300 clock hours of supervision, maintain a weekly internship log and prepare a final report.

Note: Only three hours of Internship I in Agriculture may be used to satisfy the curriculum requirements for a B.S. degree in Agribusiness.

AGBU 4003: Agri-Business Management

Prerequisite: AGBU 1013, Junior standing, or consent of the instructor.

A study of the managerial practices and procedures that apply to all agriculture businesses. Emphasis is placed on the use and application of management and economic principles in decision making directed toward profit maximization.

AGBU 4013: Agricultural Marketing

Prerequisite: AGBU 2063 and 2073, or consent of instructor.

A study of marketing functions, practice, organizational structure, legal aspects of agricultural marketing in relation to marketing policies, analysis of consumer behavior, and market demand.

AGBU 4023: Agricultural Finance

Prerequisite: AGBU 2063 and 2073 and ACCT 2003

Designed as an economic and accounting study of the processes in agricultural businesses. Manufacturing costs, income tax, managerial reports, cash flow, and statement analysis of agricultural businesses along with capital allocation and the purpose and efficiency of agricultural lending institutions are analyzed.

AGBU 4033: Agricultural Policy

Prerequisite: AGBU 2063 and 2073 or consent of instructor.

Designed as an introduction to historical and current federal governmental legislation in agriculture. Specific emphasis is placed on the logic, beliefs, attitudes and values of the American people coincident with the social, economic, and political environment, and on evaluating the objectives, means and the observed results through the criteria of resource allocation and income distribution in the agricultural sector of the economy.

AGBU 4043: Appraisal of Farm Real Estate

Prerequisite: AGBU 2063 and 2073, or consent of instructor.

A practical application of principles and practices in farm real estate evaluation, emphasizing the processes of value development and uses.

AGBU 4053: Agricultural Price Analysis

Prerequisite: AGBU 2063 and 2073

Study of the trends, cycles, and seasonal patterns associated with agricultural markets and institutional arrangements. Graphical and statistical analysis of commodity data and the fundamentals of agricultural futures markets are covered.

AGBU 4063: Agricultural Investments

Prerequisite: AGBU 2063 and AGBU 2073, senior standing or consent of instructor.

An in-depth analysis of investment opportunities available in the field of agriculture. Emphasis will be on investment in stocks, bonds, agricultural commodities, futures hedging, and in international currencies. Students will be required to create and maintain a diversified investment portfolio with weekly monitoring of their chosen investments.

AGBU 4951,4952,4953,4954: Undergraduate Research in Agricultural Business and Economics

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

AGBU 4983: Internship II in Agriculture

Prerequisite: Internship I in Agriculture, approval of the department head, junior or senior standing, minimum of 2.5 GPA overall.

A supervised, practical experience providing undergraduate agribusiness majors with a hands-on, professional experience

in a position relating to an area of career interest. The student will work in a local cooperating agribusiness establishment under the supervision of a member of management of that firm. A minimum of 300 clock hours of supervision, maintain a weekly internship log, prepare a final report and present at least a 15 minute seminar to the agriculture department.

Note: Only three hours of Internship II in Agriculture may be used to satisfy the curriculum requirements for a B.S. degree in Agribusiness.

AGBU 4991,4992,4993,4994: Special Problems in Agriculture

Prerequisite: Permission of the department.

One to four hours credit, depending on the nature and extent of the problem. This is a course designed to introduce qualified students to specific agricultural areas including Agribusiness, Animal Science, Horticulture, or Plant Science.

Note: only six hours of Special Problems in Agriculture may be used to satisfy the curriculum requirements for the B.S. degree in Agribusiness.

Agricultural Education Course Descriptions

AGED 1001: Introduction to Agricultural Education

Freshman orientation with attention given to sharing of possible solutions to individual problems. Exploration of anticipated collegiate experiences for departmental majors as well as post- graduation opportunities. Student and faculty interaction is stressed.

The class meets one day a week for the full semester or two days a week for half a semester.

AGED 1012: Agricultural Youth Organizations

This course is designed as a survey course to introduce students to Agricultural Youth Organizations including 4-H, FFA, Grange, and other pertaining to membership, awards programs, benefits, and special recognition programs.

AGED 3003: Methods in Agricultural Education

Prerequisites: AGED 1001, AGED 1012, acceptance into stage II of the teaching program, junior standing, and/or instructor's permission.

This course is designed to prepare pre-service teachers for the job and responsibility of Methods and techniques in teaching agriculture at the secondary level.

AGED 3013: Principles of Farm Management

Prerequisite: AGBU 1013, Junior standing, or consent of instructor

A study of the principles of agribusiness including ways of doing business in a free market economic system, entrepreneurship, business start-up, business plans, management, facility needs, legal aspects and tax responsibilities, personnel, and ethics.

AGED 4003: Issues in Agriculture

Prerequisites: AGEG 3003, senior standing and/or instructor's permission.

This course is designed to prepare pre-service teachers for the job and responsibility of developing curriculum to incorporate local, national and international agricultural policy issues as they relate to lecture and discussion on local, regional, national, and international issues related to agricultural policy, ethics, environment, society, and science.

AGED 4013: Methods in Agriculture Laboratories

Prerequisites: AGME 3003, 3013, and 3023, senior standing, acceptance into stage II, and/or instructor's permission.

This course is designed to prepare pre-service teachers for the job and responsibility of managers. Methods and management techniques in all types of agricultural laboratories that many are in a secondary agricultural science program. Emphasis on management of students and facilities, equipment, and materials.

Lecture 2 hours, laboratory 2 hours per week. \$50 course fee.

Agriculture Engr/Mechanization Course Descriptions

AGEG 3203: Soil, Water and Forest Conservation

Prerequisite: Junior standing or consent of instructor.

Causes and control of soil and water losses; methods of erosion control; relationship of soil and water conservation to forest, recreation, pollution and wildlife management.

AGEG 3413: Agricultural Waste Management

Prerequisites: MATH 1113, CHEM 1114, and AGSS 2014

A study of potential adverse environmental quality problems associated with agricultural operations, current trends and innovative solutions to waste management problems, and current legal constraints and regulating agencies.

Agricultural Pest Management Course Descriptions

AGPM 3104: Introduction to Entomology

Cross-listed: BIOL 3104

This course will introduce the student to insect diversity and the identification of the major families of insects. Laboratory time will be spent learning family characteristics and collecting and preserving insect specimens. Lecture will consist of topics such as insect diversity, morphology and physiology.

\$25 course fees.

AGPM 3124: Applied Pest Control

Prerequisites: AGPS 1003, AGPM 3104, AGPS 3053, Junior standing or consent of instructor.

Advanced concepts and techniques used in modern pest control practices and the chemistry and environmental fate of pesticides.

AGPM 4103: Integrated Pest Management

Prerequisite: AGPS 1003, Junior standing or consent of instructor.

A systematic approach utilizing biological, cultural and genetic control methods to suppress pest numbers in agroecosystems.

Agriculture Plant Science Course Descriptions

AGPS 1003: Introduction to Agronomy

A study of important agronomic practices associated with crop production, including classification of crops, the role of soil and the environment, crop management, cropping systems, integrated pest management and harvest methods.

AGPS 1024: Principles of Horticulture

Principles and practices in propagation of plants, sexual and asexual reproduction methods; construction and management of greenhouses.

Lecture three hours, laboratory two hours.

AGPS 1033: Introduction to Forestry

General survey of the five fields of forestry; a preview of forestry subjects; forestry resources; some emphasis on silviculture, measurement, protection, utilization, preservation and forest administration.

AGPS 3024: Forage Crops and Pasture Management

Prerequisites: AGPS 1003, Junior standing or consent of instructor.

Selection, culture, production, distribution and uses of pasture and forage plants; management problems in hay and silage; emphasis on utilization and improvement of pasture.

Lecture three hours, laboratory two hours.

AGPS 3044: Plant Propagation

Prerequisite: AGPS 1024, Junior standing or consent of instructor.

A study of the principles and practices in the propagation of herbaceous and woody indoor plants and flowers.

Lecture three hours, laboratory two hours.

AGPS 3053: Weed Ecology

Prerequisite: AGPS 1003 and Junior standing or consent of instructor.

The principles of weed ecology including weed demography and population dynamics, competition, interference, soil seed bank concept and systematic approaches to weed management.

AGPS 3064: Vegetable Growing

Prerequisite: AGPS 1024, Junior standing or consent of instructor.

The application of scientific facts and principles that are involved in the successful production of vegetables under cover and/or in the open.

Lecture three hours, laboratory two hours.

AGPS 3074: Floriculture

Prerequisite: AGPS 1024, Junior standing or consent of instructor.

Commercial production and marketing of major cut flower crops, bedding plants, and flowering pot plants under cover and/or in the open.

Lecture three hours, laboratory two hours.

AGPS 3083: Small Fruit and Nut Culture

Prerequisite: AGPS 1024, Junior standing or consent of instructor.

A study of the factors underlying the commercial and home production of small fruits and nuts, including a study of varieties, propagation, pruning, spraying, harvesting, and marketing.

AGPS 3093: Greenhouse Operation and Management

Prerequisite: AGPS 1024, Junior standing or consent of instructor.

Greenhouse construction and management of heating, cooling, moisture, fertilization, lighting, insect and disease control in the growth of major greenhouse crops.

AGPS 3244: Plant Pathology

Prerequisite: BIOL 2134 or BIOL 1014

Introductory course in plant diseases. A study of the causes, symptoms, spread and control of plant diseases. The emphasis is placed on the interaction between disease causing agents and the diseased plant and the way in which environmental conditions influence the mechanisms by which factors produce plant disease.

Lecture three hours, laboratory two hours.

AGPS 4103: Crop and Garden Insects

Prerequisite: AGPS 1024, Junior standing or consent of instructor.

Anatomy, physiology, ecology, life history, and control of insects affecting crops and garden plants.

Agriculture Soil Science Course Descriptions

AGSS 2014: Soils

Prerequisite: CHEM 1114

Development, classification, and properties of soils. A review of the major areas of soil science and their application to agricultural production and the environment.

Lecture three hours, laboratory two hours.

AGSS 3033: Soil Fertility

Prerequisite: AGSS 2014

Physical, chemical, and biological properties that relate to soil fertility as measured by plant production and quality. Growth response to fertilizers and fertilization methods.

Allied Health Science Course Descriptions

AHS 1023: Basic Pharmacology with an Overview of Microbiology

Enrollment is limited to medical assistant and health information management majors. Topics to be covered in addition to introductory pharmacology will include basic chemistry as it applies to the medical laboratory and a brief overview of microbiology and immunology. Basic pharmacology as it relates to the drug interaction with each of the body systems and classifications of drugs will be covered. Students will utilize the Physicians' Desk Reference (PDR) in the course.

AHS 2013: Medical Terminology

A study of the language of medicine including word construction, definition, and use of terms related to all areas of medical science, hospital service, and the allied health specialties.

Note: Duplicate credit for AHS 2013 and 3013 will not be allowed.

AHS 2022: Medical Laboratory Orientation and Instrumentation, Laboratory

Offered: Fall

Prerequisites: a grade of "C" or higher in BIOL 1114 or BIOL 2124.

Enrollment is limited to students enrolled in BIOL 2023. Topics covered will include laboratory orientation, laboratory procedures/ techniques, introduction to clinical laboratory instrumentation (both manual and automated), quality control principles, and care of equipment.

Laboratory four hours per week. \$10 laboratory fee.

AHS 2023: Medical Laboratory Orientation and Instrumentation

Offered: Fall

Prerequisites: Enrollment is limited to medical assistant and/or medical technology majors who have completed at least BIOL 1114 or BIOL 2124 (AHS 2013 recommended) with a grade of "C" or higher and are in the final year of their program at Tech.

This course is concerned with both the theoretical and practical application of a wide range of clinical duties performed by the medical assistant and medical technologist. Topics covered will include hematology, urinalysis, hematostatic processes, body chemistry, microbiology, and blood typing.

AHS 2032: Medical Assistant Clinical Practice Laboratory

Offered: Spring

Co-requisites: Enrollment is limited to medical assistant majors who are enrolled in AHS 2034 and in the final semester before the medical assistant externship assignment.

This course is designed to allow for practice in locale area clinics. Students will complete a two-hour laboratory in the simulated lab and will be assigned to three hours in area clinics on a weekly basis. While at the medical facility students will apply the theories and concepts covered in AHS 2023 and AHS 2034.

Five-hour laboratory weekly. \$10 laboratory fee.

AHS 2033: Coding Principles for Medical Office

Prerequisites: AHS 2013, 1023, BIOL 2004, or permission of instructor.

A study of medical coding using ICD-9-CM and CPT codes in the medical office. Students will be taught to evaluate patients' medical records to correctly assign both diagnostic and procedural codes required for healthcare reimbursement in the medical office setting.

AHS 2034: Medical Assistant Clinical Practice

Offered: Spring

Prerequisite: AHS 2023 and 2022. Enrollment is limited to medical assistant majors.

Topics covered will include examination room techniques, sterilization procedures, operation and care of electrocardiograph, assisting with minor surgery, physiotherapy, pharmacology, medications and specialist assisting. Students must subscribe to malpractice liability insurance.

AHS 2044: Medical Assistant Administrative Practice

Offered: Fall

Prerequisite: AHS 2013. This course is open only to medical assistant majors in the final part of the program or by permission of the medical assistant program director.

A survey course emphasizing the business administrative duties of the medical assistant. Course content will include working with patients, medical records, medical dictation, office procedures, and office management. Student must subscribe to malpractice liability insurance.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

AHS 2053: Computers in the Medical Office with an Overview of Insurance Procedures

Offered: Spring

Prerequisites: HIM 2003, AHS 2044. This course is open only to medical assistant majors in the final part of the program or by permission of the medical assistant program director.

This course will prepare the medical assistant to work as an administrative medical assistant in a health care facility. Students are introduced to the computerization of the medical office using current operating systems. Topics covered will include recording information on patients, scheduling appointments, printing reports, producing patient statements and claim forms, and filing electronic claims.

AHS 2055: Externship

Offered: First summer term

Prerequisites: Completion of all other required courses in medical assistant curriculum.

The course is scheduled at the end of the program. It shall include the opportunity to perform various clinical and administrative procedures under supervision. The student will remain in a medical facility for a period of four weeks. Assignments may be made anywhere in Arkansas; students must assume the full financial responsibility for this assignment. A seminar will be scheduled for the fifth week. Student must subscribe to malpractice liability insurance.

AHS 2061: Medical Assistant Seminar

Offered: First summer term

Prerequisite: AHS 2055

A one week seminar scheduled for the week following the externship. Topics discussed will be based on those arising from the student's experiences while on his/her externship. Employment procedures will also be covered.

American Studies Course Descriptions

AMST 2003: American Studies

An exploration of American culture through study of significant ideas, social issues and literary texts.

Note: AMST 2003 may be used to fulfill 3 hours of the Social Sciences general education requirements.

Anthropology Course Descriptions

ANTH 1213: Introduction to Anthropology

An introduction to the subdisciplines of cultural anthropology, physical anthropology, archeology, and linguistics.

ANTH 2003: Cultural Anthropology

A study of contemporary and historical peoples and cultures of major world culture areas.

Note: May not be taken for credit after completion of ANTH 3213.

ANTH 2103: Human Ecology of the Mountain South

This course provides students with the knowledge and skills to understand changing human-environment relationships in the mountain South and to apply these understandings to the assessment of, and potential solutions to, contemporary socio-environmental issues in the area. We will explore the emergence of Mississippian societies, their transformation during prehistoric and early historic eras, the impacts of early European settlements and the regions' incorporation into the global marketplace, development and the growth of tourism and industry in the area, and current social and environmental issues in the mountain South.

ANTH 2203: Indians of North America

A study of contemporary and historical peoples and cultures of North America.

ANTH 2223: North American Archeology

The study of prehistoric peoples and cultures of North America.

ANTH 3103: Anthropology of Food

Prerequisite: ANTH 1213

This course examines the topics of food and agriculture from a broadly anthropological perspective with a significant focus on the Ozark-Ouachita region of Arkansas. The course explores the relationships among human biology, cultural diversity, social systems, politics, economics and food and agriculture. Significant emphasis is placed on how political and economic forces have created a global, industrial food system that is ecologically unsustainable, socially unjust, and detrimental to human health and well-being as well as on opportunities that exist to change this system.

ANTH 3241,3242,3243,3244: Seminar in Anthropology

Prerequisite: Permission of instructor.

A directed seminar in an area of anthropology. The specific focus will depend upon research interests, student interest, and current developments in the field of anthropology.

ANTH 3303: Southeastern Archaeology

The course will survey the rise of chiefdom-level societies in the prehistoric Southeast, reconstruct the "Mississippian world" these chiefdoms created, document the activities of sixteenth-century Spanish explorers in the region, and trace the subsequent decline of Mississippian chiefdoms. In addition to reconstructing the landscape of the ancient South, students will explore long-term social and cultural traits of southeastern Indians and discover the secrets unearthed at famous Mississippian sites such as Cahokia, Moundville, and Etowah.

ANTH 3313: Southeastern Indians

This course is an ethnographic and historic survey of southern Indians from European contact through the era of Removal. Particular emphasis will be placed on the following subjects: the decline of chiefdom societies across the South, the Spanish mission system, the development of the deerskin and Indian slave trade, native resistance to colonial encroachment, and a detailed discussion of Removal. The course also includes ethnographic descriptions of major southern Indian groups, including the Creek, Cherokee, Catawba, Choctaw, Chickasaw, Seminole, Apalachee, and Natchez. By the end of the course students should acquire an understanding of a little known aspect of our country's

heritage, be able to distinguish between the various colonial strategies at play in the region, as well as the various forms of native resistance, and gain an appreciation for the place of southern Indians within U.S. society today.

ANTH 3403: Ethnographic Methods

This course trains students in research methods in anthropology with an emphasis on qualitative research. Students learn the different uses of methodologies to address specific types of research questions, practice participant-observation and interview techniques as part of semester-long research projects, and survey anthropological theory as it relates to conducting ethnographic fieldwork.

ANTH 4206: Workshop in Anthropology

Offered: Five week summer session

Prerequisite: Permission of instructor and department head.

An intensive five week experience in anthropology combining classroom study and field exposure to techniques, artifacts, and findings pertinent to anthropology/ archeology of North America. Extensive travel to sites and collections will be an integral part of the study experience.

Note: It may be necessary to assess a special fee which would be stated in advance.

ANTH 4403: Interpretation/Education through Museum Methods

Cross-listed: HIST 4403, MUSM 4403

Prerequisites: Senior or Graduate standing, or permission of instructor.

Museum perspectives and approaches to care and interpretation of cultural resources, including interpretive techniques of exhibit and education- outreach materials, and integrating museum interpretation/education into public school and general public programming. Class projects focus on special problems for managing interpretive materials in a museum setting.

ANTH 4853: Music of the World's Peoples

Cross-listed: MUS 4853

Open to students in all majors. A survey of predominantly non-Western world music cultures with attention to sonic structures, musicians, musical instruments, and socio-cultural contexts of music making. Listening emphasized.

ANTH 4951,4952,4953,4954: Undergraduate Research in Anthropology

Offered: On demand

Prerequisites: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

ANTH 4991,4992,4993,4994: Special Problems in Anthropology

Prerequisite: Permission of instructor.

Independent work under individual guidance of staff member.

Art Course Descriptions

ART 1163: Basic Photography

Cross-listed: JOUR 1163

A study of the use of the camera, films, equipment, and the basics of black and white processing and printing. Includes introductions to lighting techniques, composition, and color photography.

ART 1303: Introduction to Drawing

An introduction to structural and expressive responses in drawing by the study of line, volume, shape, light perspective, the media, and their interrelations.

Studio six hours. \$36 art fee.

ART 1403: Two-dimensional Design

Basic study of elements and principles of two-dimensional design employing a variety of tools and materials.

Studio six hours.

ART 1503: Introduction to Graphic Design

Prerequisite: ART 1403, ART 1303 or permission of instructor.

An introduction to fundamental graphic design principles, techniques and materials.

\$36 art fee

ART 2103: Art History I

An examination of the periods and western cultures responsible for major artistic monuments and achievements from pre history through the Gothic period.

ART 2113: Art History II

A western art survey of the events, people, and stylistic trends involved in the development of major art forms from the era of the Italian Renaissance to the present.

ART 2123: Experiencing Art

This course is designed to provide a background in art and the related processes so that a student may develop powers of observation and thereby respond to a work of art.

ART 2213: Digital Skills for the Graphic Designer

Prerequisites: ART 1503 Introduction to the Macintosh computer system.

Students will learn graphic design software which they will, in turn, use to create various projects.

\$36 art fee

ART 2303: Figure Drawing

Prerequisite: ART 1303.

Introduction to the study of the human figure. A major emphasis will be directed to exercises in the study of anatomy, proportion, and line as it relates to the figure.

Studio six hours. \$36 art fee.

ART 2403: Color Design

Basic application of color principles and color theory.

Studio six hours. \$36 art fee.

ART 2413: Three-dimensional Design

Prerequisite: ART 1403

Basic study of three-dimensional problems of structure, spatial organization, and introductory sculptural concerns.

Studio six hours. \$36 art fee.

ART 2703: Introduction to Sculpture

Prerequisites: ART 1303, 1403, 2413

Basic techniques of sculpture and sculptural composition. Modeling, casting, carving, and constructive processes are introduced.

Studio six hours. \$100 art fee.

ART 3003: Concepts in Art Education

Prerequisite: Sophomore Review.

Introduction to theory and specialized practice in art education issues as applied to elementary art experience. Studio processes, art criticism, aesthetics, and art history methodology will be incorporated into lessons implemented as part of field experience in local elementary schools.

Studio six hours. \$36 art fee.

ART 3013: Art Education Practicum

Prerequisite: Sophomore Review.

Curriculum design with emphasis on visual art standards, art media, and assessment as applied to teaching on the secondary level. Students will implement a unit of study in partnership with local schools.

Studio six hours. \$36 art fee.

ART 3113: Art History, American

Prerequisite: Sophomore Review.

A study of art forms in architecture, painting, sculpture and craft from Colonial times to the present.

ART 3123: Art History, Renaissance

Prerequisite: Sophomore Review.

A concentrated study of art forms in architecture, painting, sculpture and crafts during the period of the Italian and Northern Renaissance.

ART 3133: Art History, American & Africa

Prerequisites: ART 2103 or ART 2113, and Sophomore Review

A study of the art of Africa, with a strong focus on African cultures south of the Sahara, along with art of native peoples of North, Central, and South America from both before and after contact with Europeans. Contemporary works by African, Latin American, and Native American artists will also be studied.

ART 3143: Art History, Asia & Pacific

Prerequisites: ART 2103 or ART 2113, and Sophomore Review.

A study of the art of South, East, and Southeast Asia, the islands of the Pacific, and the Aboriginal cultures of Australia. Contemporary works by artists from these regions will also be studied.

ART 3203: Typography and Layout

Prerequisites: ART 1503, ART 2213, and Sophomore Review.

Beginning and intermediate problems in layout designs as well as the effective use of type.

\$36 art fee.

ART 3223: Three-dimensional Graphic Design

Prerequisite: ART 1503, ART 2213, and Sophomore Review.

Studio problems in the design and presentation of 3 D advertising packaging and displays.

Studio six hours. \$36 art fee.

ART 3232: Production Techniques

Prerequisites: ART 1503 or ART 1203, ART 3203, ART 3223

Introductory course on preparing graphic design pieces for commercial printing.

\$24 art fee.

ART 3243: Web Design

Prerequisite: ART 2213, 3203, and Sophomore Review.

Introduce basic website planning, content editing and creation using graphic arts techniques. Screen-based color theory, web design aesthetics, use of graphic editors, and interface design are explored.

Studio six hours. \$36 course fee.

ART 3253: Computer Illustration

Prerequisite: ART 2213 and Sophomore Review.

This course will provide students with advanced conceptual skills in computer illustration and digital imaging. Students will acquire intermediate knowledge in vector and pixel-based drawing formats, digital painting effects, comic art/video game illustration, storyboarding and coloring through the completion of integrated design projects.

Studio six hours. \$36 course fee.

ART 3303: Drawing Studio I

Prerequisites: ART 1303, 2303, or permission of instructor and Sophomore Review.

The application of the theories and techniques of drawing as they relate to the study of composition in finished works of art.

Studio six hours. \$36 art fee.

ART 3403: Introduction to Opaque Painting

Prerequisites: Art 1303, 1403, 2403, Sophomore Review or permission of instructor.

The exploration of opaque painting techniques. Traditional oil, acrylic and alkyd will be studied.

Studio six hours. \$36 course fee.

ART 3503: Painting Studio I

Prerequisite: ART 3403 and Sophomore Review.

A continued study in the opaque or transparent painting techniques. Emphasis will be directed toward the economy of conception and performance in the completion of finished works of art.

Studio six hours. \$36 art fee.

ART 3533: Watercolor Painting

Prerequisite: ART 1303, 1403, 2403, or permission of instructor and Sophomore Review.

The exploration of transparent water painting techniques.

Studio six hours. \$36 art fee.

ART 3603: Introduction to Ceramics

Prerequisites: ART 1403 or permission of instructor and Sophomore Review.

An introduction to ceramics, emphasizing the imaginative design and production of ceramic objects utilizing hand building and wheel throwing techniques. Exposure to the complete ceramic process through the use of demonstrations, slides, and lectures.

Studio six hours. \$100 art fee.

ART 3703: Sculpture Studio I

Prerequisite: ART 2703 and Sophomore Review.

A continued study of sculptural techniques introduced in Introduction to Sculpture, allowing for student expansion and specialization on individual conceptions.

Studio six hours. \$100 art fee.

ART 3713: Sculpture Studio II

Prerequisite: ART 2703 and Sophomore Review.

A continued study of sculptural techniques introduced in Introduction to Sculpture, allowing for student expansion and specialization on individual conceptions.

Studio six hours. \$100 art fee.

ART 3803: Introduction to Printmaking

Prerequisites: ART 1303, 1403, 2403 and Sophomore Review.

A survey of traditional printmaking techniques will be taught including intaglio, relief, and monotype.

Studio six hours. \$100 art fee.

ART 3813: Printmaking Studio I

Prerequisite: ART 3803 and Sophomore Review.

Printmaking activities introduced in Introduction to Printmaking will be used as a basis for the student to expand and specialize. Students will be expected to develop an individual print series in one or more print techniques.

Studio six hours. \$100 materials fee.

ART 3903: Introduction to Fiber Arts

Prerequisites: Art 1303, 1403, 2403 and Sophomore Review.

An introduction to fiber arts to include historical and cultural connections, techniques and processes associated with materials studies such as weaving, papermaking, textile design, and mixed media.

Studio six hours. \$36 art fee.

ART 4103: Art History, Modern 1789-1945

Prerequisite: Sophomore Review.

A study of the artists, movements, and theories of European art from the French Revolution to World War II.

ART 4113: Art History, Art After 1945

Prerequisites: ART 2113 and Sophomore Review

A study of the artists, movements, and theories of Western art since 1945, with an emphasis on art of the United States.

ART 4123: Art History, Medieval

Prerequisite: ART 2103, sophomore review or permission of instructor.

A study of the art and architecture of the European Middle Ages, from the rise of Christianity through the Gothic period.

ART 4163: Advanced Photography

Cross-listed: JOUR 4163

Prerequisite: JOUR (ART) 1163 or consent of instructor.

An introduction to advanced photographic techniques including digital photography. Various historic and current theories of visual communication provide a substantive base for the application of techniques.

ART 4231: Graphic Design Exhibition

Offered: spring

Prerequisites: ART 1503, 2213, 3203, 3223, 3232, 3243, 3253, 4623 and Sophomore Review.

Co-requisite: ART 4243

The purpose of the course is to provide the student an opportunity to present their work in a professional manner in a public venue.

ART 4233: Techniques for Illustration

Prerequisites: ART 1303, 1403, 2303, 2403 and Sophomore Review.

Application of fine art drawing and painting techniques to illustration problems.

Studio six hours. \$36 course fee.

ART 4243: Professional Portfolio Preparation for Graphic Designers

Prerequisites: Art 1503, Art 2213, Art 3203, Art 3223, Art 3233 and Sophomore

Co-requisites: ART 4231

Review. The purpose of this course is to prepare the student for entry into the professional world through the development of a resume and the presentation of their work.

\$36 course fee.

ART 4313: Drawing Studio II

Prerequisite: ART 3303 and Sophomore Review.

The further development of advanced drawing concepts and skills. This course will deal with each student on a one to one basis. The student will present a "contract of drawing projects" subject to instructor's approval.

Studio six hours. \$36 art fee.

ART 4323: Drawing Studio III

Prerequisite: ART 3303 and Sophomore Review.

The further development of advanced drawing concepts and skills. This course will deal with each student on a one to one basis. The student will present a "contract of drawing projects" subject to instructor's approval.

Studio six hours. \$36 art fee.

ART 4503: Painting Studio II

Prerequisite: ART 3503 and Sophomore Review.

Advanced study of the opaque/ transparent painting techniques. Emphasis will be theme oriented. Each student must submit to the instructor a "painting contract" which must be approved.

Studio six hours. \$36 art fee.

ART 4513: Painting Studio III

Prerequisite: ART 3503 and Sophomore Review.

Advanced study of the opaque/ transparent painting techniques. Emphasis will be theme oriented. Each student must submit to the instructor a "painting contract" which must be approved.

Studio six hours. \$36 art fee.

ART 4603: Ceramics Studio I

Prerequisites: ART 3603 and Sophomore Review.

A study of advanced techniques and skills. This course will deal with each student on a one to one basis. Each student must submit a "contract of ceramics project" subject to instructor's approval.

Studio six hours. \$100 art fee.

ART 4613: Ceramics Studio II

Prerequisites: ART 3603 and Sophomore Review.

A study of advanced techniques and skills. This course will deal with each student on a one to one basis. Each student must submit a "contract of ceramics project" subject to instructor's approval.

Studio six hours. \$100 art fee.

ART 4623: Animation Techniques

Prerequisite: ART 2213, 2303, 3203, and Sophomore Review.

Introduce basic drawing/2D animation, and create movies/cartoons, motion graphics/interactive content using multimedia tools and techniques. Time-based media, animation timing, use of audio-visual editors, and effective storyboard techniques are explored.

Studio six hours. \$36 course fee.

ART 4701: Special Methods in Art

Prerequisites: Sophomore Review, admission to student teaching phase of teacher education program and concurrent enrollment in SEED 4809.

Intensive on campus exploration of the principles of curriculum construction, teaching methods, use of community resources, and evaluation as related to teaching art.

ART 4703: Senior Project and Exhibition

Offered: Spring

Prerequisite: Junior Review, Sophomore Review.

This course is required for all Fine Arts majors, and elective for Graphic Design and Art Education majors.

ART 4723: Art History Seminar

Prerequisite: Sophomore review, senior standing, or permission of instructor.

This course will provide a forum for in-depth examination of a particular artist, movement, theme, or period in art history.

ART 4733,4736: Graphic Design Internship

Prerequisites: Art 1503, 2213, 3203, 3233, Sophomore Review, Junior Review and instructor's permission.

A supervised, practical experience providing graphic design majors with professional hands-on training in a position relating to an area within their chosen field of graphic design at a cooperating business.

ART 4803: Printmaking Studio II

Prerequisite: ART 3813, Sophomore Review and permission of Instructor.

A concentration on printmaking techniques which will develop additional strength and capability in the student.

Studio six hours. \$100 art fee.

ART 4813: Printmaking Studio III

Prerequisite: ART 3813, Sophomore Review and permission of Instructor.

A concentration on printmaking techniques which will develop additional strength and capability in the student.

Studio six hours. \$100 art fee.

ART 4823: Art Criticism and Aesthetics

Prerequisites: Sophomore Review, Art 2103 and/or 2113.

Perspectives on analyzing and interpreting works of art required for art education majors. The course may be used as an art history elective for graphics and fine arts majors.

ART 4951,4952,4953,4954: Undergraduate Research in Art

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

ART 4991,4992,4993,4994: Special Problems in Art

This course requires advance approval by the instructor, department head, and the dean of school. Designed to provide certain advanced students with further concentration in a particular area.

Fee may apply.

Business Data Analytics Course Descriptions

BDA 2003: Business Problem Solving

Prerequisites: BUAD 2003 with a 'C' or better or COMS 2003 with a 'C' or better or permission of instructor.

This course is designed to provide students training in solving business problems. Students will work individually and in groups on projects to learn and apply various problem solving frameworks, methods, and tools to realistic business situations. Frameworks include general problem solving, systems thinking, critical thinking, and ethical reasoning. Methods and tools include project management, communication and coordination techniques, quantitative models, and software applications.

BDA 2013: Business Spreadsheet Modeling

Offered: Fall

Prerequisites: BUAD 2003, BDA 2003, MATH 2223

This is an introductory course for business major undergraduate students. The main objective of the course is to teach how to solve problems arising in modern business environments using Microsoft Excel. The course will begin by teaching common tools available in Microsoft Excel. Then it will introduce the students to a variety of analytical problems arising in modern businesses and present ways in which these problems can be solved using Microsoft Excel.

BDA 3003: Data Analytics Apps Development

Offered: Fall

Prerequisites: BDA 2013 and BDA 2053 or permission of instructor

This course covers how business data analysts develop software applications to retrieve and analyze data and provide information and business intelligence useful to solve business problems, to support business decisions, and to determine business tactics and strategy. Students will learn how to design appropriate logic and user interfaces for business data analytic software as well as write and debug professional code in a typical production environment. The student will develop a set of standard data analysis techniques representing typical approaches to solving business intelligence problems.

BDA 3033: Data Modeling and Management

Offered: Fall

Prerequisites: BDA 2003 or permission of the instructor

This course covers how databases are constructed and managed so that business data analysts can store, update, manage, retrieve, and process data. Students will learn to design, implement, and use databases to create information and business intelligence useful for solving problems, making business decisions, and determining business strategy and tactics. The content addresses how to design effective and efficient data models, implement data models in commonly used database management systems, retrieve and process that data, present formation to clients and managers, and address the main issues and tradeoffs in database administration.

BDA 3053: Business Data Analysis

Offered: Spring

Prerequisites: COMS 1003 or COMS 2003 or BUAD 2003 and BDA 2003 and BUAD 2053 with a "C" or better.

This course explores the development of exploratory and predictive models for managers and business decision-makers. Specific tools addressed include analysis of variance (ANOVA), multiple regression, factor analysis, cluster analysis, logistic regression, and path analysis. Emphasis is on analyzing data using statistical software, visualizing and interpreting the results of those analyses and translating results into clear and simple insights to aid managerial decision making.

BDA 4003: Business Intelligence

Offered: Spring

Prerequisites: BDA 3003, BDA 3033 with a 'C' or better, BDA 30S3 with a 'C' or better or permission of instructor.

This course covers how data analysts can process large data sets from a variety of sources to create information by that guides leaders in crafting strategy and tactics which allow an organization to survive and thrive in a turbulent environment. Students will review how business intelligence has been created and successfully used in the past and learn appropriate processes and a variety of techniques to accomplish this transformation. The course also addresses professional and ethical conduct with respect to data mining and use of business intelligence.

BDA 4031,4032,4033: Internship

Offered: As needed

Prerequisites: Cumulative GPA greater than 2.50, junior standing, and approval of the instructor, department head, and dean.

A supervised, practical experience providing undergraduate BOA majors with a hands-on professional experience in a position relating to an area of career interest. The student will work in a local cooperating business establishment under the supervision of a member of management of that firm. A College of Business faculty member will observe and consult with the students and the management of the cooperating firm periodically during the period of the internship. Students will be required to make oral reports in the classroom, maintain an internship log, and prepare a final term paper.

Note: Only three hours of internship may be used to satisfy the curriculum requirements for Business Data Analytics electives. Additional hours may be used to satisfy the curriculum requirements for general electives.

BDA 4073: Special Topics

Offered: As needed

Prerequisites: Cumulative GPA greater than 2.0, Junior Standing, BDA 2013, and BDA 3053 or approval of Instructor.

This course offers an in-depth exploration of selected business data analytics topics. The primary topic will vary from offering to offering; thus, the course may be taken more than once.

Biology Course Descriptions

BIOL 1004: Principles of Environmental Science

Cross-listed: PHSC 1004

Offered: On demand

This course is designed to bring the student to a basic but informed awareness of and responsible behavior toward our environment and the role of the human race therein. The content will include a study of the philosophical and scientific basis for the study of ecosystems and the environment, the nature of ecosystems, the techniques used to study the environment, the origin and development of current environmental problems, the interdisciplinary nature of environmental studies, the processes of critical thinking and problem solving, and the moral and ethical implications of environmentally-mandated decisions.

Lecture three hours, Lab three hours. \$20 laboratory fee.

BIOL 1011: Orientation to the Biological Sciences

This course orients entering students to the biological sciences. Topics examined in this course include an overview of the Tech Department of Biological Sciences and careers in biology, managing a biology curriculum (registration procedures, student responsibilities, and study skills), requirements for professional schools and graduate education, and undergraduate research opportunities.

BIOL 1014: Introduction to Biological Science

An introduction to the major concepts of biological science, with an emphasis on the development of this scientific perspective and how it applies to humans.

Note: Duplicate credit for BIOL 1014 and BIOL 1114 will not be allowed. May not be taken for credit after completion of BIOL 1114, 2124, or 2134.

Lecture three hours. Laboratory two hours. \$10 laboratory fee.

BIOL 1114: Principles of Biology

Prerequisites: scores of 19 or higher on the reading, science reasoning and mathematics portions of the enhanced ACT or completion of MATH 0903 with a grade of C or higher, or a grade of C or higher in a science course.

An in depth study of biological principles and the interrelationships of biology with other sciences. Topics included are: cellular structure, intermediary metabolism and differentiation, population genetics, ecology, and evolution.

Note: Duplicate credit for BIOL 1014 and BIOL 1114 will not be allowed.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 2004: Basic Human Anatomy and Physiology

Prerequisite: A grade of C or higher in a science course or approval of the instructor.

This course is intended for students who have a need for basic studies in functional aspects of the organ systems of the human body.

Note: This course may not be taken for credit after completion of BIOL 2014, 3074, or equivalent.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 2014: Human Anatomy

Prerequisite: A grade of C or higher in a science course or approval of the instructor.

This is an introductory course in human anatomy which should be useful to students in the biological and health oriented fields. The course is designed to present an introduction to the unified concepts and data that contribute to a basic

understanding of the structure of the human body. The course will include familiarization with essential technical vocabulary; reference to general functions of organs and organ systems; and brief encounters with histology, embryology, and comparative anatomy.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 2022: Medical Laboratory Orientation and Instrumentation, Laboratory

Offered: Fall

Prerequisites: A grade of "C" or higher in BIOL 1114 or BIOL 2124. Enrollment is limited to students enrolled in BIOL 2023.

Topics covered will include laboratory orientation, laboratory procedures/ techniques, introduction to clinical laboratory instrumentation (both manual and automated), quality control principles, and care of equipment.

Laboratory four hours per week. \$10 laboratory fee.

BIOL 2023: Medical Laboratory Orientation and Instrumentation

Offered: Fall

Prerequisites: Enrollment is limited to medical assistant and/or medical technology majors who have completed at least BIOL 1114 or BIOL 2124 (AHS 2013 recommended) with a grade of "C" or higher and are in the final year of their program at Tech.

This course is concerned with both the theoretical and practical application of a wide range of clinical duties performed by the medical assistant and medical technologist. Topics covered will include hematology, urinalysis, hemostatic processes, body chemistry, microbiology, and blood typing.

BIOL 2111: Environmental Seminar

Cross-listed: CHEM 2111, GEOL 2111

Offered: Spring

A seminar for students pursuing the environmental option of biology, chemistry, or geology and other students interested in environmental sciences.

BIOL 2124: Principles of Zoology

Prerequisites: Scores of 19 or higher on the reading and science reasoning portions of the enhanced ACT; or BIOL 1014 or BIOL 1114; or approval of the instructor.

A survey of the major animal phyla: morphology, physiology, and natural history.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 2134: Principles of Botany

Prerequisites: Scores of 19 or higher on the reading and science reasoning portions of the enhanced ACT; or BIOL 1014 or BIOL 1114; or approval of the instructor.

Introduction to the structure, function, classification, and importance of nonvascular and vascular plants.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 2144: Honors Zoology

Prerequisite: Admission to the Tech Honors Program or permission of the instructor.

An honors course which includes a survey of the major animal phyla: morphology, physiology, and natural history. The presentation will foster rational inquiry, critical thinking, and analytical skills in general and specifically toward discussions of evolution and associated implications for world views.

Note: Duplicate credit for BIOL 2124 and 2144 will not be allowed.

Lecture 3 hours, lab 2 hours.

BIOL 2881,2882,2883,2884: Special Topics in Biology

Offered: On demand

Prerequisite: Consent of the instructor.

This course offers specialized instruction in an area of biological sciences that is not otherwise covered in the curriculum. The focus of the course will vary from offering to offering, thus the course may be taken more than once.

Note: BIOL 2884 includes a \$10 lab fee.

BIOL 3004: Plant Taxonomy

Offered: Spring

Prerequisites: BIOL 1114 and 2134 or permission of instructor.

An overview of the major principles of classification, identification, naming, and collection of representatives of vascular plants.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 3014: Comparative Anatomy

Offered: On demand

Prerequisite: BIOL 2124.

A comparative study of the vertebrate classes in terms of their organ systems. An emphasis is placed on evolution from aquatic to terrestrial forms and significant phylogenetic trends.

Lecture two hours, laboratory four hours. \$10 laboratory fee.

BIOL 3024: Embryology

Offered: On demand

Prerequisite: BIOL 2124.

A comparative study of the development of the frog, pig, and chick, and an introduction to human embryology.

Lecture two hours, laboratory four hours. \$10 laboratory fee.

BIOL 3034: Genetics

Prerequisites: BIOL 1114 (or equivalent) with a grade of "B" or higher, MATH 1113 (or higher) and two semesters of chemistry.

Introduction to and discussion of the principles of Mendelian, molecular and population genetics with a strong emphasis on problem solving. Laboratory exercises will involve hands-on experience with microbes, plants, animals and fungi using traditional and molecular techniques.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 3043: Conservation

Offered: On demand

Prerequisites: BIOL/CHEM/GEOL 2111.

A study of natural resources, their utilization in a technical society, and factors leading to their depletion.

BIOL 3054: Microbiology

Prerequisites: One semester of chemistry and one semester of biology.

An introduction to the microbial world with an emphasis on prokaryotes. Identification of bacteria based on staining, immunologic reactions, morphology and physiology. Symbionts and pathogens of human and domestic animals. Principles of control using chemical and physical agents. An overview of virology and immunology.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 3064: Parasitology

Offered: On demand

Prerequisite: BIOL 2124

A survey of parasitism in the various phyla. Special emphasis is given to parasites that affect humans.

Lecture two hours, laboratory four hours. \$10 laboratory fee.

BIOL 3074: Human Physiology

Prerequisites: C grade or better in BIOL 2014 and CHEM 1114 or CHEM 2124.

An introduction to the function of vertebrate body systems, i.e., muscle action, digestion, circulation, nervous control, endocrine, metabolism and respiration, with special emphasis on the human body.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 3084: Ichthyology

Cross-listed: FW 3084

Offered: Fall

Prerequisite: BIOL 2124

Systematics, collection, identification, natural history, and importance of fishes.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 3104: Introduction to Entomology

Cross-listed: AGPM 3104

This course will introduce the student to insect diversity and the identification of the major families of insects. Laboratory time will be spent learning family characteristics and collecting and preserving insect specimens. Lecture will consist of topics such as insect diversity, morphology and physiology.

\$25 course fees

BIOL 3111: Environmental Seminar

Cross-listed: CHEM 3111, GEOL 3111

Offered: Spring

A seminar for students pursuing the environmental option of biology, chemistry, or geology and other students interested in environmental sciences.

BIOL 3114: Principles of Ecology

Cross-listed: FW 3114

Prerequisites: BIOL 2124, 2134, and one semester of chemistry.

Responses of organisms to environmental variables, bioenergetics, population dynamics, community interactions, ecosystem structure and function, and major biogeographical patterns.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 3124: General Physiology

Offered: Fall

Prerequisites: BIOL 1114, 2124, 2134, and two semesters of chemistry.

An in depth study of basic physiology employing examples of both plants and animals.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

BIOL 3134: Invertebrate Zoology

Offered: Spring

Prerequisites: BIOL 1114, 2124, 2134, and two semesters of chemistry.

Morphology, physiology, natural history and taxonomy of major invertebrate phyla. Laboratory maintenance and preservation techniques.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 3144: Ornithology

Cross-listed: FW 3144

Offered: Spring

Prerequisite: BIOL 2124

An introduction to the biology of birds. The course covers aspects of anatomy, physiology, behavior, natural history, evolution, and conservation of birds. Laboratories address field identification and natural history of the birds of Arkansas.

Note: Students will be expected to participate in an extended 5-7 day field trip.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 3154: Mammalogy

Cross-listed: FW 3154

Offered: Fall

Prerequisite: BIOL 2124

Taxonomy, identification, ecology, and study natural history of the mammals.

Lecture three hours, laboratory two hours. \$20 laboratory fee.

BIOL 3174: Physiological Ecology

Prerequisites: BIOL 1114, 2124, 2134 and two semesters of chemistry.

An in-depth study of plant and animal adaptations and responses to different environmental conditions. Comparative physiology of major systems, mechanisms of adaptation and adaptations to challenging habitats will be studied.

\$10 laboratory fee.

BIOL 3184: Animal Behavior

Cross-listed: PSY 3184

Offered: Spring of even years

Prerequisites: sophomore standing in biology or psychology, or approval of instructor.

An introductory course in animal behavior covering behavioral responses in primitive and advanced animals exposed to a wide range of environmental and social conditions. Laboratory exercises will include field as well as in-lab exercises and will focus on observational techniques and analyses of behavioral patterns in vertebrates and invertebrates.

Lecture three hours, laboratory two hours. \$20 laboratory fee.

BIOL 3213: Science Education in the Elementary School

Cross-listed: PHSC 3213

Prerequisites: Junior standing, ECED 2001, ECED 2002, and at least six credit hours in science.

An overview of the most recent and research-based strategies and techniques for planning, teaching, and assessing elementary science. Inquiry-based methods and other constructivist approaches as described in the National Science Education Standards will be emphasized. Design and execution of learning activities for an elementary school setting are required.

Note: To enroll in an internet section (TC1 or AT1) of this course, one of these prerequisite courses is required: COMS 1003, EDMD 3013, or equivalent.

Lecture two hours, laboratory two hours; three credit hours. \$10 laboratory fee.

BIOL 3223: Science Education in the Middle Level

Cross-listed: PHSC 3223

Offered: Spring

Prerequisites: 16 hours in science and MLED 2001.

This course is designed to provide pre-service teachers with an integrated approach to the teaching of science in the middle grades. Theoretical and practical aspects of teaching science will be explored and students will develop curricular materials based on their explorations.

Lecture two hours, laboratory 2 hours. \$10 laboratory fee.

BIOL 3224: Herpetology

Cross-listed: FW 3224

Offered: Spring of odd years

Prerequisite: BIOL 2124

The phylogeny, classification, physiology, behavior, and distribution of reptiles and amphibians. The Laboratory will stress identification of the species found in Arkansas.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 3233: Science Education in the Secondary School

Cross-listed: PHSC 3233

Offered: Fall

Prerequisites: 16 hours in biology or 16 hours in physical science and SEED 2002.

This course will examine the issues of nature and history of science, developing lessons and assessments, and science education standards for the prospective secondary school teacher. Curriculum development, including assessment and planning skills, utilizing various instructional media and inquiry methodology are emphasized. Design and execution of learning activities for a secondary school setting are required.

Lecture two hours and lab two hours. \$10 laboratory fee.

BIOL 3252: The Nature and Context of Science

Cross-listed: PHSC 3252

Offered: On demand

Prerequisite: At least 12 hours of science courses.

This seminar course examines science from a holistic perspective. It will concentrate on examining how current science develops scientific knowledge including unifying concepts across scientific disciplines, the place of science within modern society, technology and its role in science and society, and current scientific methodology.

BIOL 3803: Applied Pathophysiology

Cross-listed: NUR 3803

Prerequisites: grade of C or better in BIOL 2014 and BIOL 3074.

This course focuses on the mechanisms and concepts of selected pathological disturbances in the human body. Emphasis is placed on how the specific pathological condition effects the functioning of the system involved, as well as its impact on all other body systems.

BIOL 4003: History and Philosophy of Science

Cross-listed: PHSC 4003

Offered: On demand

Prerequisite: a Sophomore-level science course (or higher).

A course in the historical development and philosophical basis of modern science.

Note: BIOL (PHSC) 5003 may not be taken for credit after completion of this course.

BIOL 4014: Endocrinology

Offered: Spring of odd years

Prerequisites: BIOL 1114, 2124 and one semester of chemistry.

An in-depth study of the endocrine systems of animals with emphasis on vertebrates. Histology and embryology of endocrine organs or cell groups, mechanisms of stimulation, response, and actions plus comparative aspects of similar organs in different animal groups will be studied.

Lecture 3 hours, laboratory two hours. \$10 laboratory fee.

BIOL 4023: Immunology

Offered: Spring

Prerequisites: Four hours each in biology and chemistry and/or consent of instructor.

An overview of the human immune system, including cellular and humoral defense mechanisms, immunity to infection, hypersensitivity, transplant rejection, and tumor destruction. Immune deficiency and autoimmune diseases. Antibody structure and the use of antibodies in medicine and research.

BIOL 4024: Limnology

Cross-listed: FW 4024

Offered: Spring

Prerequisite: BIOL(FW) 3114.

A study of physical and chemical processes in fresh water and their effects on organisms in lakes and streams. Laboratory sessions and field trips demonstrate limnological instrumentation and methodology.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 4033: Cell Biology

Offered: Fall

Prerequisites: BIOL 1114, 2124 or 2134 plus four additional hours of biology and one course from BIOL 3034, 3054, 4023 or CHEM 3343; eight hours of chemistry.

The primary goal of this course is to introduce the basic cell structures and the molecular mechanisms whereby the cell functions through the directed application of energy and processing of information. Topics include methods of cell study, cellular organelles and their ultrastructures, membrane structure and function, cell differentiation, and reproduction.

BIOL 4044: Dendrology

Offered: Fall

Prerequisites: BIOL 1114 and 2134.

A study of woody plants with emphasis on field recognition throughout the year.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

BIOL 4054: Vertebrate Histology

Offered: Spring of even years

Prerequisites: BIOL 1114, 2124 and an additional four hours in biology.

A study of functional/structural relationship of cells, tissues, and organs. Exercises in the preparation and observation of tissues and development of general principles of micro techniques.

Lecture two hours, laboratory four hours. \$10 laboratory fee.

BIOL 4064: Evolutionary Biology

Offered: Spring of even years

Prerequisites: BIOL 3034 or permission of instructor.

This course focuses upon the principles and major concepts in evolutionary biology from a historical and contemporary viewpoint. Morphological and molecular evolution, population genetics, systematics, the fossil record, a history of life on earth, macroevolution, and adaptation are among the topics examined in this course.

Lecture 3 hours, lab 3 hours. \$10 laboratory fee.

BIOL 4074: Molecular Genetics

Offered: Spring of odd years

Prerequisite: BIOL 3034

This course continues the material introduced in Genetics (BIOL 3034) with a focus upon the major concepts and

techniques in contemporary molecular genetics. Current viewpoints of the gene, gene regulation, developmental genetics, recombinant DNA technology, genomics, proteomics, and molecular evolution are among the topics examined in the course.

Lecture 3 hours, laboratory 3 hours. \$10 laboratory fee.

BIOL 4083: Cancer Biology

Prerequisite: BIOL 3034

An in-depth study of major areas and topics in cancer biology, including etiology and epidemiology of cancer, impact of the human genome mapping project, molecular genetics and cell biology of cancer, cancer modeling and clinical aspects of human cancer.

BIOL 4094: Coastal Ecology

Offered: May Mini-Term

Prerequisites: BIOL 2124 and BIOL 2134 and one semester of chemistry.

A focused study of coastal ecology, as represented by the Mississippi Gulf Coast. Coastal plants, animals, their interactions, and relationship to the physical environment are explored.

Note: The course includes a required field trip to the Gulf Coast. Investigations are conducted in the marshes, bays, estuaries, bogs, and barrier island systems. Students bear the cost of food and a nominal housing fee.

\$20 laboratory fee.

BIOL 4111: Environmental Seminar

Cross-listed: CHEM 4111, GEOL 4111

Offered: Spring

A seminar for students pursuing the environmental option of biology, chemistry, or geology and other students interested in environmental sciences.

BIOL 4112: Biology Internship

Prerequisites: Junior or senior standing and consent of internship program director.

A supervised, practical experience providing BIOL majors with a hands-on, professional experience related to their career interests. The course will allow students to gain experience in an occupational environment. Students will be placed in positions under the direction of the internship program director and work supervisor. The program will emphasize application of classroom knowledge to career goals. Approximately 200 clock hours, a proposal, a log book or journal, a summary letter from the employment supervisor, and a written report are required.

Note: A maximum of four credit hours is allowed for BIOL internship.

BIOL 4114: Biology Internship

Prerequisites: Junior or senior standing and consent of internship program director.

A supervised, practical experience providing BIOL majors with a hands-on, professional experience related to their career interests. The course will allow students to gain experience in an occupational environment. Students will be placed in positions under the direction of the internship program director and work supervisor. The program will emphasize application of classroom knowledge to career goals. Approximately 400 clock hours, a proposal, a log book or journal, a summary letter from the employment supervisor, and a written report are required.

Note: A maximum of four credit hours is allowed for BIOL internship.

BIOL 4163: Biodiversity and Conservation Biology

Cross-listed: FW 4163

Offered: Fall of even years

Prerequisite: A course in ecology or permission of instructor

The concepts of, processes that produce, and factors that threaten biological diversity are introduced and examined. Further emphasis is placed on unique problems associated with small population size, management of endangered species and practical applications of conservation biology.

BIOL 4701: Special Methods in Biology

Prerequisite: Admission to student teaching phase of the teacher education program.

Co-requisite: SEED 4909

Intensive on campus exploration of the principles of curriculum construction, teaching methods, use of community resources, and evaluation as related to teaching biology.

BIOL 4881,4882,4883,4884: Advanced Topics in Biology

Offered: On demand

Prerequisites: an upper level science course and consent of the instructor.

This course offers advanced instruction in an area of biological sciences that is not otherwise covered in the curriculum. The focus of the course will vary from offering to offering, thus the course may be taken more than once.

Offered on demand. \$10 laboratory fee.

BIOL 4891: Seminar in Biology

Prerequisite: An upper level biology course and senior standing.

Designed to integrate all aspects of biology by covering current topics in many fields of biology and to acquaint the student with fields of biology not covered in the general curriculum.

BIOL 4951,4952,4953,4954: Undergraduate Research in Biology

Offered: On demand

Prerequisites: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

Business Law Course Descriptions

BLAW 2033: Legal Environment of Business

Prerequisite: Sophomore standing

A survey of the basic framework of the American and international legal systems, including civil procedure, constitutional law, administrative regulation, and topics in business law, with particular emphasis on the ethical, sociocultural and political influences affecting such environments.

BLAW 3063: Commercial Law

Prerequisites: BLAW 2033. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

An in-depth analysis of the Uniform Commercial Code and its effect on the business environment. Course focuses on sales, negotiable instruments, secured transactions, and bankruptcy. Significant federal and state statutes affecting commerce also are explored.

BLAW 4073: Special Topics in Law

Prerequisites: BLAW 2033. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Course offers an in-depth exploration of selected legal issues affecting business. The primary focus of the course will vary from offering to offering; thus the course may be taken more than once.

Business Administration Course Descriptions

(Additional prerequisites for 3000-level and 4000-level courses are listed in the [College of Business](#) section of this catalog.)

BUAD 1023: Keyboarding

Instruction and supervised practice in basic keyboarding skills with emphasis on alphabetic and numeric keyboard, ten-key pad, and basic applications transferable to computer terminal keyboards. The purpose of the course is to prepare Business Education majors for teaching secondary education students how to use computer and typewriter keyboards. The course is required by Business Education majors, but may be taken by other majors as well.

Note: May not be taken for credit after successful completion of BUAD 2002.

BUAD 1111: Introduction to Business

The course provides university orientation and a general business perspective. Fundamentals of organizing and managing business enterprises and the American enterprise system. Principles and frame work for analysis of business problems with a systems emphasis.

Note: This course may not be taken for credit after completion of MGMT 3003.

BUAD 2003: Business Information Systems

Prerequisite: Sophomore standing

An introduction to business information systems with emphasis on concepts and applications utilizing spreadsheets, word processing, and database management as productivity tools; provides basic rationale for using computers in generating and managing information necessary for the business decision making process.

BUAD 2043: Principles of Word Processing

Prerequisites: BUAD 1023 or BUAD 2003 or COMS 1003

A course designed to develop technology skills using current software; application documents include letters, memos, reports, tables, desktop publishing, and graphics for business as well as personal use.

BUAD 2053: Business Statistics

Prerequisites: COMS 1003, COMS 2003, BUAD 2003 or MGMT 2013, and MATH 2223 or any higher level math course.

This course reviews basic descriptive statistics and probability distributions. The course introduces inferential statistics and their application to business problems. Topics covered include data collection, the t-tests for one sample, matched-pairs, and independent groups, the F-test for one and two-way analysis of variance, the z-test for one and two proportions, the chi-square tests for independence and goodness of fit, the t- and F- tests as they relate to simple and multiple regression, control charts, time-series analysis, the visual display of quantitative information, and the reporting of results. Problems are addressed using technology such as statistical calculators and advanced statistical software.

BUAD 3023: Business Communications

Prerequisites: 6 hours of English Composition and COMS 1003 or BUAD 2003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Course includes principles of effective business communication using technology to generate documents including letters, memos, and reports; international, ethical, legal, and interpersonal topics are integrated throughout the course.

BUAD 3123: Management

A study of the basic principles of management and organizational behavior including planning, organizing, leading, controlling, staffing, decision making, ethics, interpersonal influence, and group behavior; and organizational change and development.

BUAD 3143: Marketing

This course covers marketing fundamentals, consumer behavior, the retailing and wholesaling systems, marketing functions, marketing policies, marketing costs, critical appraisal of marketing, marketing ethics and social responsibility, and the relationship between marketing, society, and the government.

BUAD 3293: International Business

This course covers all aspects of international business including, but not limited to, international politics, culture, economics, finance, technology, marketing, ethical decision-making, strategic planning and management, and human resource development in a global environment.

BUAD 3393: Small Business Firm Planning

Application of business planning principles to the creation and operation of small-scale enterprises. The emphasis for this course is on the preparation and implementation of business plans for small firms. Focus will be given to plans used for business strategy and for seeking financial investment in the firm.

Chemistry Course Descriptions

CHEM 1111: Survey of Chemistry Laboratory

Co-requisite: CHEM 1113.

An introduction to laboratory experiences in chemistry.

\$10 laboratory fee

CHEM 1113: A Survey of Chemistry

Prerequisite: A score of 19 or above on the mathematics section of the ACTE exam, or completion of MATH 0903, Intermediate Algebra, with a grade of C or better.

A survey of selected topics in chemistry for life science majors. A brief introduction to fundamental concepts, atomic structure, chemical bonding, and periodic law as applied in the life sciences and allied areas. May not be taken for credit after completion of CHEM 2124 or 2134.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 2111: Environmental Seminar

Cross-listed: BIOL 2111, GEOL 2111

(See CHEM 4111).

CHEM 2124: General Chemistry I

Prerequisites: Score of 21 or higher on the math portion of the ACTE; or MATH 1113 or equivalent; or a "C" or better in CHEM 1114; or approval of the instructor.

The first of a two semester sequence designed for science and engineering majors. Topics include qualitative and quantitative, applied and theoretical analyses of the interactions of matter; atoms, molecules, ions, the mole concept, chemical equations, gases, solutions, intermolecular forces, thermochemistry, quantum theory, periodic law, ionic and covalent bonding, molecular geometry.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 2134: General Chemistry II

Prerequisite: Completion of CHEM 2124 or equivalent.

A continuation of CHEM 2124, encompassing chemical kinetics, equilibrium, acid/base systems, atmospheric chemistry, thermodynamics, electrochemistry, descriptive inorganic chemistry and nuclear chemistry.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 2201,3301: Chemistry Seminar

(See CHEM 4401).

CHEM 2204: Organic Physiological Chemistry

Offered: Spring

Prerequisites: CHEM 1114 or CHEM 2124.

For students who desire only one semester of organic/physiologic chemistry, such as wildlife biology and various allied health programs. A brief introduction to organic and physiological chemistry. The structures, reactions and biological aspects of organic compounds will be stressed.

Note: Will not be counted for chemistry credit toward the ACS approved BS in chemistry.

Lecture three hours, laboratory three hours. \$10 lab fee.

CHEM 2991,2992,2993,3991,3992,3993: Special Problems in Chemistry

Prerequisite: Permission of instructor

One to three credits, depending on the nature and extent of the problem. This course is designed to encourage creative, independent scientific activity on the part of advanced students. Problems will be designed to fit the future aspirations of individual students and will be supervised by a faculty mentor.

CHEM 3111: Environmental Seminar

Cross-listed: BIOL 3111, GEOL 3111

(See CHEM 4111).

CHEM 3245: Quantitative Analysis

Offered: Spring

Prerequisite: CHEM 2134

This is a lab intensive course, that focuses on a variety of experimental techniques that enable the chemist to characterize and quantify many types of samples.

Lecture three hours, laboratory six hours. \$10 laboratory fee.

CHEM 3254: Fundamentals of Organic Chemistry

Prerequisite: CHEM 2134

An introduction to the chemistry of covalently bonded carbon. Special emphasis will be given to descriptive and structural aspects of Organic Chemistry.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 3264: Mechanistic Organic Chemistry

Offered: Spring

Prerequisite: Completion of CHEM 3254 or equivalent.

A continuation of CHEM 3254 with special emphasis on theory and mechanisms of organic reactions.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 3313: Environmental Chemistry

Offered: Spring

Prerequisite: Chemistry 3254

An examination of the chemistry of the environment including the origins, natural processes, and anthropogenic influences.

CHEM 3324: Physical Chemistry I

Offered: Fall

Prerequisites: CHEM 3245, PHYS 2024, or 2124, MATH 2924

Upper division chemistry course designed for chemistry, physical science, and engineering majors desiring a deeper understanding of the physical and mathematical processes of chemistry. Course content includes ideal and non-ideal gases, laws of thermodynamics, enthalpy, heat capacity, free energy, Maxwell's relations, chemical and phase equilibria,

electrochemical equilibria, fugacities, activity coefficients, mixtures, colligative properties, surfaces.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 3334: Physical Chemistry II

Offered: Spring

Prerequisite: CHEM 3324.

Continuation of CHEM 3324 (Physical Chemistry I). Upper division chemistry course designed for chemistry, physical science and engineering majors desiring a deeper understanding of the physical and mathematical processes of chemistry. Course content includes chemical kinetics and reaction mechanisms, molecular collisions, transition state theory, quantum mechanics, electronic structure of atoms and diatomic molecules, molecular spectroscopy, solid-state chemistry.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 3344: Principles of Biochemistry

Prerequisites: CHEM 3264 and BIOL 1014 or 1114

The chemistry of metabolism of carbohydrates, lipids, and proteins. Basic concepts of the biochemistry of DNA, vitamins, enzymes, biological oxidations, and bioenergetics with introduction to biochemical laboratory techniques.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 3353: Fundamentals of Toxicology

Offered: On demand

Prerequisite: CHEM 3254

An introduction to the science of poisons. Toxicological principles studied include structures, dose/response relationships, metabolism, mechanism of action, and gross effects of chemicals.

CHEM 3363: Metabolic Biochemistry

Prerequisite: CHEM 3343

The study of metabolism of carbohydrates, lipids, proteins, and nucleic acids, and the study of biological information flow in organisms. Metabolic pathways and genetic informational flow in plants and animals will be addressed.

CHEM 3423: Descriptive Inorganic Chemistry

Prerequisite: CHEM 2134

Basic descriptive inorganic chemistry dealing in a systematic way with the elements and the structures, properties and reactions of their inorganic compounds. Topics range from coordination chemistry to organometallic chemistry to bioinorganic chemistry.

CHEM 4111: Environmental Seminar

Cross-listed: BIOL 4111, GEOL 4111

Offered: Spring

A seminar for students pursuing the environmental option of chemistry, biology, or geology and other students interested in environmental sciences.

CHEM 4401: Chemistry Seminar

Offered: Spring

Participants will prepare written reviews, present oral reports, and defend their reports. Emphasis will be on the use of the library and current chemical research.

CHEM 4414: Instrumental Analysis

Offered: Fall

Prerequisite: CHEM 3245

This course is designed for chemistry majors. It will focus on the understanding of the instrumental methods used in analytical chemistry. A variety of spectrometric, chromatographic, and electrometric techniques will be covered in the lecture and laboratory.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

CHEM 4422: Advanced Organic Chemistry

Offered: On demand

Prerequisite: CHEM 3264

An expansion and/or continuation of theoretical topics addressed in CHEM 3264.

CHEM 4424: Advanced Inorganic Chemistry

Offered Spring

Prerequisite: CHEM 3423

CHEM 4424 is a senior level inorganic chemistry course. The course gives an overview of some of the many advanced areas of study in inorganic chemistry including atomic and molecular structure, acid-base chemistry, symmetry and group theory, coordination chemistry and organometallic chemistry.

Lecture three hours, laboratory three hours. \$10 laboratory fee

CHEM 4432,4433,4434: Advanced Topics in Chemistry

Offered: On demand

Prerequisite: Permission of instructor.

Various advanced topics in any specialty area of chemistry, e.g., polymers, coordination chemistry, and nuclear chemistry.

CHEM 4951,4952,4953,4954: Undergraduate Research in Chemistry

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

CHEM 4991,4992,4993,4994: Special Problems in Chemistry

Prerequisite: Permission of instructor.

One to four credits, depending on the nature and extent of the problem. This course is designed to encourage creative, independent scientific activity on the part of advanced students. Problems will be designed to fit the future aspirations of individual students and will be supervised by a faculty mentor.

Chinese Course Descriptions

CHIN 1014: Beginning Chinese I

Prerequisite: Consent of Instructor.

Student will be given credit for 40 hours of set construction participation.

CHIN 1024: Beginning Chinese II

Continued emphasis on conversation and fundamental language skills.

CHIN 2014: Intermediate Chinese I

Prerequisite: Beginning Chinese II (CHIN 1024) or equivalent.

Instruction designed to develop communication skills and knowledge of grammar, reading, writing, and culture.

CHIN 2024: Intermediate Chinese II

Prerequisite: Intermediate Chinese I (CHIN 2014) or equivalent.

Instruction designed to enhance communication skills and knowledge of grammar, reading, writing, and culture.

Criminal Justice Course Descriptions

CJ 2003: Introduction to Criminal Justice

Cross-listed: SOC 2003

An overview of the criminal justice system and the workings of each component. Topics include the history, structure, and functions of law enforcement, judicial and correctional organizations, their interrelationship and effectiveness, and the future trends in each.

CJ 2033: Social Problems

Cross-listed: SOC 2033

Prerequisite: SOC 1003

A sociological analysis of contemporary social problems including inequalities, deviance, population changes, and troubled institutions.

CJ 2043: Crime and Delinquency

Cross-listed: SOC 2043

Prerequisite: SOC 1003 or CJ(SOC) 2003

A study of the major areas of crime and delinquency; theories of crime, the nature of criminal behavior and the components of the criminal justice system. Topics include: crime statistics, criminology research, theories of crime and delinquency, criminal typologies and operations of the criminal justice system.

CJ 3023: Judicial Process

Cross-listed: POLS 3023

The structure and operations of the state and national court systems. Emphasis is upon the role of the criminal courts in the political system and the consequences of judicial policy making.

CJ 3033: The Criminal Mind

Cross-listed: PSY 3033

Prerequisite: PSY 2003 and CJ(SOC) 2003 or (CJ)SOC 2043

The course familiarizes students with various models, theories, and research regarding criminality from a psychological perspective. Genetic, constitutional, and biological factors will be emphasized and some practical applications to dealing with criminals will be considered.

CJ 3083: Social Deviance

Cross-listed: SOC 3083

Prerequisites: SOC 1003 or SOC(CJ) 2003

An introduction to the sociological and criminological study of human deviance. Various theories of deviance will be examined and applied to real life examples.

CJ 3103: The Juvenile Justice System

Cross-listed: SOC 3103

Prerequisite: CJ(SOC) 2003 or permission of instructor

An in-depth look at the juvenile justice system including the structure, statuses and roles as well as current issues, problems, and trends.

CJ 3153: Prison and Corrections

Cross-listed: SOC 3153

Prerequisite: SOC 1003 and SOC(CJ) 2033

An introduction to and analysis of contemporary American corrections. Emphasis will be on current and past correctional philosophy, traditional and modern correctional facilities, correctional personnel and offenders, new approaches in corrections, and the relationship of corrections to the criminal justice field.

CJ 4013: Drugs in Society

Prerequisites: SOC 1003 or CJ 2003

This course presents a comprehensive study of the history and prohibition of drug use in the United States, as well as the effects of drugs on society in the form of crime, prison and treatment. The main focus of this class is on the history of drug use, how certain drugs become illegal, and the intended and unintended consequences of drug prohibition for communities and society.

CJ 4023: Law and the Legal System

A comprehensive study of judicial process and behavior in criminal and civil law.

Note: May not be taken for credit after completion of POLS 5023 or equivalent.

CJ 4053: Criminal Law and the Constitution

A survey of the procedures and issues associated with American criminal justice as viewed from a Constitutional perspective.

CJ 4141,4142,4143,4144: Seminar in Criminal Justice

Prerequisite: CJ 2003 and consent of instructor.

This course is a directed seminar in an area of criminal justice selected by both the student and supervising faculty member. Topics will vary depending on the research underway, community or student need, and the unique educational opportunity available.

This course may be repeated for course credit if the content differs.

CJ 4206: The Law in Action

Cross-listed: SOC 4206

Offered: Summer only

Prerequisite: SOC/CJ 2043, 9 hours of Criminal Justice coursework, senior classification, and instructor permission.

An examination of sociological theories of law and main currents of legal philosophy is followed by participant observation of actual community legal agencies, including police, courts, and others as available.

Note: Requires insurance fee.

CJ 4951,4952,4953,4954: Undergraduate Research in Criminal Justice

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

CJ 4991,4992,4993,4994: Special Problems in Criminal Justice

Prerequisite: Prior approval of instructor and department.

Content is to be determined by faculty student conference and based on student background and interest.

Computer/Information Science Course Descriptions

COMS 1003: Introduction to Computer Based Systems

Provides students with both computer concepts and hands-on applications. Although little or no prior computer experience is required for this course, keyboarding proficiency is assumed. Topics include PC basics, file maintenance, and hardware and software components. Students will gain experience in the use of Windows, e-mail, the Internet, word processing, spreadsheets, databases, and presentation packages. The integration of software packages will also be covered.

Note: This course may not be taken for credit after completion of COMS 2003 or BUAD 2003.

Note: Credit by examination is offered to students who have notable experience with computers and MS Office applications. Information regarding this examination can be found at cs.atu.edu/coms1003.

COMS 1103: FORTRAN Programming

Prerequisites: MATH 1113 or equivalent

An introduction to programming using the FORTRAN language with emphasis on numerical computing, including the use of scientific subroutine libraries.

COMS 1203: Programming in BASIC

An introduction to programming using BASIC and/or Visual Basic.

COMS 1303: Computer Applications for Technical Majors

Co-requisite: MATH 1113 or equivalent

The purpose of this course is to give the students in engineering, mathematics, chemistry, and other technical disciplines the prerequisite computer skills necessary to make effective use of the computer in their major degree programs where computer applications have been integrated into the course of study.

COMS 1333: Web Publishing I

Prerequisites: COMS 1003 or BUAD 2003

This course focuses on how to develop web pages for display on the World Wide Web. Topics covered include markup languages, style sheets, links, images, multimedia, tables, forms, design issues, and other topics as appropriate. Students will learn how to publish a web site to a server and maintain the site.

COMS 1403: Orientation to Computing, Information, and Technology

Co-requisite: MATH 1113 and COMS 1411

(Required of all students who have declared a major in computer science, information systems, and information technology). An introduction to the professions of computer science, information systems, and information technology. Topics include ethics, professionalism, and opportunities within the three fields as well as an overview of hardware, software, technology, and information systems concepts and terms.

COMS 1411: Computer and Information Science Lab

Co-requisite: COMS 1403

An introduction to the computing resources of the department and the university.

COMS 2003: Microcomputer Applications

Prerequisites: COMS 1003 or BUAD 2003

This course provides hands-on experience with several software applications. Topics include intermediate and advanced word processing and desktop publishing features; spreadsheet design, formulas, and charts; database design principles

and implementation; presentation design and techniques; and integration among these applications. Students will be required to apply each package on a semester project related to their major.

COMS 2104: Foundations of Computer Programming I

Prerequisites: MATH 1113, and either COMS 1403 and 1411 or consent of instructor.

An introduction to structured programming using C++. This is the beginning programming course for students majoring in computer science, information systems, and information technology. Programming principles covered in lecture are practiced in lab. Major topics include sequential, selection, and iterative control structures, functions, parameter passing, and file processing. Arrays are introduced as a structured data type.

COMS 2163: Scripting Languages

Prerequisite: Minimum of 3 hour programming course.

This course introduces the student to script writing in several languages. The primary categories of scripts will be UNIX shell, text processing, and Perl. CGI Scripts, using Perl, will be introduced.

COMS 2203: Foundations of Computer Programming II

Prerequisites: MATH 1113 and completion of COMS 2104 with a grade equal to or greater than a C.

Topics include multi-dimensional arrays, functions, string processing, classes, and records. Students are introduced to object-oriented programming using C++.

COMS 2213: Data Structures

Prerequisites: COMS 2203, and COMS 2903

This course involves a study of abstract data structures and the implementation of these abstract concepts as computer algorithms.

COMS 2223: Computer Organization and Programming

Prerequisite: COMS 2203 and ELEG 2134

Introduction to organizing and structuring hardware components of computers. Topics include internal data representation, data transfer and control, I/O, memory hierarchy, and programming in assembly.

COMS 2233: Introduction to Databases

Prerequisite: COMS 1003 or 1403

This course develops a detailed understanding of a database software package developed for microcomputer applications. Topics include how to design, implement, and access a personal database. Entity relationship diagrams are emphasized in design. The use of macros, data conversion operations, linking, and complex selection operations are used in implementation. Advanced report generation mechanisms are covered along with custom-designed menus and user interfaces.

COMS 2333: Web Publishing II

Prerequisites: COMS 1333 or consent of instructor.

This course is a continuation of COMS 1333. Students are introduced to multimedia design concepts and software. Multimedia applications and design tools are used to create and maintain multimedia products such as dynamic graphics, animation, interactive websites, and video.

COMS 2700: Networking and Architecture Laboratory

Co-requisite: COMS 2703

Laboratory exercises repairing and networking computers.

COMS 2703: Computer Networks and Architecture

Prerequisites: COMS 1411 and COMS 1403

Co-requisite: COMS 2700

This course covers how to install and administer a local area network and connect it to the Internet. Topics include network architecture, hardware, and software, along with popular protocols for establishing connectivity for sharing resources such as printers and files. Participation in a designated lab outside of the regularly scheduled meeting time is required.

COMS 2713: Survey of Operating Systems

Prerequisites: COMS 1411; COMS 1003 or COMS 1403

Several Operating Systems (such as Unix, Microsoft, AS/400) will be examined with regard to the user's view of the system. This view includes the types of files supported, the kinds of operations that can be performed on files (from the shell and from programs), the mechanisms for starting and controlling processes (i.e. running programs), some basic utility programs that a beginning or intermediate level administrator would need to use.

COMS 2733: Introduction to Computer Forensics and Security

Prerequisite: COMS 2703

Co-requisite: COMS 2713

An introduction to the fundamentals of computer forensic technology. The course emphasizes techniques for identifying and minimizing the threats to, and vulnerabilities of computer systems. These techniques include methods and tools for tracking suspicious activity, for recovering and preserving digital media, and for doing post-mortem analysis.

COMS 2803: Programming in C

Corequisite: MATH 1113

Not for majors. This course involves the design, coding, debugging, and implementation of programs using the C language. The UNIX operating system is introduced.

Note: May not be taken for credit after the successful completion of COMS 2104.

COMS 2853: Business Application Programming using COBOL

Prerequisites: COMS 2203

This course involves the analysis, design, development, testing, implementation, and maintenance of business application programs using the COBOL language. Topics include traditional data file organization, access, and processing methodologies. Additional topics include data validation, tables, sorting, searching, screen I/O, and report-based output. Programs are developed in PC and IBM mid-range computing environments.

COMS 2903: Discrete Structures for Technical Majors

Prerequisite: MATH 1113

Fundamental mathematical concepts related to computer science, information systems, and information technology, including logic and proof techniques; sets, sequences, relations, and functions; combinatorics; algebraic structures and Boolean algebra; trees and graphs.

COMS 2981,2982,2983,2984: Special Topics

Prerequisite: Permission of the department.

This course will be offered on an "as-needed" basis to cover those topics and subject areas in computing that are emerging in a technological sense, but that do not yet warrant the addition of a new course to the curriculum. This course may be repeated for credit if course content differs.

COMS 3053: Implications of Technology on Society

Prerequisite: Junior standing

This course explores social, legal, philosophical, political, economic, and constitutional issues related to information technology. The focus will be on those issues faced as members of a complex technological society and as professionals in a technology-related field. Extensive research on current issues is expected.

COMS 3163: Web Programming

Prerequisite: COMS 2163

This course expands on the concept of CGI programming introduced in COMS 2163. Topics include features of web forms and CGI processing via a scripting language. Basic database interaction and Server-Side Includes (SSI), client-side implementation of pop-up windows, form validation, cookies, security, and other concepts will also be discussed.

COMS 3213: Advanced Data Structures and Algorithm Design

Prerequisite: COMS 2213 and 3913

Concepts, implementation, and application of B trees, AVL trees, hashing, graphs, and other abstract data structures will be studied.

COMS 3333: Implementation of e-Commerce

Prerequisites: COMS 2333 and 3163

This course covers technical issues involved in developing online stores. The primary emphasis of this course will be the design, implementation, and configuration of the "shopping carts" used for online business. Particular attention will be paid to areas of security, privacy, and protection.

COMS 3503: Visual Programming

Prerequisites: COMS 2003 (or equivalent) and COMS 2213

This course covers the design and development of event-driven programs using an object-oriented visual programming language such as Visual Basic.

COMS 3513: Administering and Using the IBM Platform

Prerequisites: COMS 2104 or consent of instructor.

This course is an introduction to the operations of the IBM midrange computer system. Topics include architecture, system security, user interface, and work management. Coverage will also extend to applications and programming using an introduction to DB2 and RPG.

COMS 3523: Human Factors in Information Technology

Prerequisites: Junior standing in a computing major or instructor consent.

A study of the major factors involved in Human-Computer Interaction. A system-oriented, multi-disciplinary approach to understanding the human considerations in the design, testing, implementation, and administration of computer-based systems and information technology.

COMS 3603: Principles of Management Science

Prerequisites: BUAD 2053 and junior standing.

An introduction to management science analytical techniques, including such topics as the simplex method of linear programming, dual problem and sensitivity analysis, and integer programming. Emphasis is placed on the application of these methods using case studies and examples from the area of finance, marketing, and production. Applicable management science software will be used.

COMS 3703: Operating Systems

Prerequisites: COMS 2213 and 2223

This course explores the fundamental concepts upon which modern operating systems are based. Topics include CPU, memory, file and device management, concurrent processes, protection mechanisms, and distributed systems. Several important algorithms will be implemented by the student.

COMS 3803: Computer Applications in Accounting and Business

Prerequisites: COMS 2003 or equivalent, ACCT 2013, Junior standing.

Topics to be covered include intermediate and advanced microcomputer applications in business.

COMS 3903: Systems Software and Architecture

Prerequisites: COMS 2703 and junior standing.

This course covers the implementation of production operating systems, the fundamentals of digital logic, and machine architecture.

Note: This course does not count as credit toward a degree in Computer Science.

COMS 3913: Advanced Discrete Structures

Prerequisites: COMS 2203, COMS 2903

Advanced topics in discrete mathematics applicable to modeling, analysis, and computer theory. Topics include relations, graphs, analysis of algorithms, and computability.

COMS 4013: Quality Management in Information Technology

Prerequisites: BUAD 2053 and COMS 4203

The study of quality management and quality assurance with regard to the analysis, design, development, and implementation of information systems and information technology. Topics include measurement techniques and standards, including ISO 9001 and other associated best practices regarding process management and process improvement.

COMS 4033: Systems Analysis and Design I

Prerequisite: COMS 4203

The application of concepts, tools, procedures, and techniques involved in the development of information systems. Emphasis is placed on the systems approach to problem solving, user involvement, the management of quality, project control, and teamwork.

COMS 4043: Systems Analysis and Design II

Prerequisites: COMS 4033 and either COMS 4133, 4163, or 4313

A continuation of COMS 4033, with emphasis on the application of the theory and techniques covered in the previous course. Students will research, analyze, design, implement, test and document a complete system. Students will complete and present their final system project as a team.

COMS 4053: Information Systems Resource Management

Prerequisites: Junior standing in information systems, information technology, or computer science.

A study of the principles and concepts involved in the management of organizational maintenance of all information resources, including hardware, software, and personnel. Includes coverage of departmental functions within computer services and information systems. Additional topics include legal, ethical, and professional issues, quality management, and the strategic impact of information systems.

COMS 4063: IT Project Administration

Prerequisite: Junior standing in information technology, information systems, or computer science.

This course provides a thorough introduction to the art and science of Project Management, as applied in the domain of information technology. Theories, best practices, and tools of project management are studied in relation to the completion of a successful project life cycle.

COMS 4103: Organization of Programming Languages

Prerequisites: COMS 2213, COMS 2223, and COMS 3913

This course emphasizes the comparative structures and capabilities of several programming languages. Major emphasis will be placed on language constructs and the run-time behavior of programs.

COMS 4133: Application Program Development

Prerequisites: COMS 2213 and COMS 2853

Object-oriented application development. Topics include OO Programming, three-tier design, and model-driven development. The course involves a major individual programming project. Students will develop and present their own large-scale application program.

COMS 4163: Personal Software Engineering

Prerequisite: COMS 3213

Formal methods for software specification. Program analysis, verification, and testing. Principles of software design. Object-oriented program implementation. Personal software process and product measurements. Program documentation. Software tools. Each student will implement a large application.

COMS 4203: Database Concepts

Prerequisites: COMS 2003, COMS 2203 and COMS 2903

Problems associated with common data processing systems, reasons for database system development; objectives such as data, device, user, and program independence; hierarchical, network, and relational models; data structures supporting database systems; operational considerations such as performance, integrity, security, concurrency, and reorganization; characteristics of existing database systems.

COMS 4213: Database Administration

Prerequisite: COMS 4203

This course develops a comprehensive foundation in the planning, implementation and execution of database management policies and procedures. Topics include installation, storage and replication implementation, security management, indexing and performance tuning, and backup and recovery.

COMS 4253: Computer Graphics

Prerequisites: COMS 2213 and MATH 4003

Developing algorithms to do line drawing, two and three dimensional displays, clipping and windowing, and hidden line removal. Other areas will include graphic I/O devices, display processors, and data structures for graphics.

COMS 4303: Client/Server Systems

Prerequisites: COMS 2213 and COMS 4203

This course provides in- depth coverage of client/server concepts. The student will use object-oriented visual programming tools and SQL in the construction of client/server programs. Emphasis will be placed on the proper design of server databases and on programming techniques used in event- driven environments.

COMS 4313: Web Server Administration

Prerequisites: COMS 2333 and COMS 2733

The tools and techniques needed to administer a web server. Installation, configuration, and administration of a variety of web servers on different platforms.

COMS 4353: Artificial Intelligence

Prerequisites: COMS 2213 and junior standing

General concepts, wide overview of AI history, and development and future of AI. Implementation of AI techniques using the LISP and or PROLOG languages. Additional topics include pattern recognition, natural language processing, learning process, and robotics.

COMS 4403: Compiler Design

Prerequisites: COMS 2223, 3213 and 4103

This course covers syntax translation, grammars and parsing, symbol tables, data representation, translating control structures, translating procedures and functions, processing expressions and data structures, and multipass translation. Students will design a computer language and implement the compiler.

COMS 4603: System Programming

Prerequisites: COMS 2213 and either COMS 3703 or COMS 3903

This course is intended to give the student practical experience in the implementation, modification, and maintenance of system software.

COMS 4700: Data Communications and Networking Lab

Co-requisite: COMS 4703

Students will complete network lab exercises in support of COMS 4703.

COMS 4703: Data Communications and Networks

Prerequisites: COMS 2703, COMS 2903; COMS 2223 or COMS 3903.

Co-requisite: COMS 4700

Basic elements and functional aspects of the hardware and software required to establish and control data communications in a stand-alone or network environment. Topics include communication protocols, media, network topologies, and system support software. Participation in a designated lab outside of the regularly scheduled meeting time is required.

COMS 4710: Heterogeneous Networks Lab

Co-requisite: COMS 4713

Students will complete network lab exercises in support of COMS 4713.

COMS 4713: Heterogeneous Networks

Prerequisite: COMS 4703

Co-requisite: COMS 4710

The student will design, develop, implement and manage numerous heterogeneous networking operating system environments. Required policies and procedures are examined and developed. Networking tools required for the development of a seamless heterogeneous networking environment are studied and applied.

COMS 4803: System Simulation

Prerequisite: COMS 2213 and 3 hours of Statistics.

Three hour programming course and junior/senior classification. An introduction to simulation methodology as it applies to the analysis and synthesis of systems. Design of simulation experiments and the analysis of data generated therefrom. Random sampling of the Monte Carlo method are used to develop computer procedures for simulated sampling. A broad range of applications is discussed.

COMS 4951,4952,4953,4954: Undergraduate Research in Computer and Information Science

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

COMS 4981,4982,4983: Seminar in Computer and Information Science

Prerequisite: Permission of department

A directed seminar in an area of computer and information science. Seminars will focus on topics relating to emerging technologies which are beyond the scope of other computer and information science courses. This course may be repeated for credit if course content differs.

COMS 4991,4992,4993,4994: Special Problems in Computer and Information Science

Prerequisite: Permission of department

This course will allow the student to work individually or as part of a small team to study and design practical computerized systems in order to solve problems of particular interest. This course may be used to offer a variety of subjects that strengthen the student's knowledge in areas not covered by other course offerings.

College Student Personnel Course Descriptions

CSP 1013: Principles of Collegiate Success

This course is designed specifically to enhance student adjustment to college life, student adaptation to the higher education learning experience, student comprehension of personal responsibility, and student advancement regarding career pathways.

Note: Open to undergraduate students with no more than 30 earned semester hours or by permission of the Vice President for Academic Affairs.

Culinary Course Descriptions

CUL 1013: Sanitation Safety

Cross-listed: HA 1013

This course provides knowledge of food safety, potable water, bioterrorism and risk management particularly in the areas of food service and storage. The student will gain knowledge on safe food handling from; receiving and storage through preparing and serving food. This course will also analyze ethical considerations with regards to food and water safety and food service. ServSafe certification from the NRAEF will result upon successful completion of standardized exam.

CUL 1923: Introduction to Food and Beverage Management

Cross-listed: HA 1923

Co-requisites: CUL (HA) 1013.

This course introduces the practical skills and knowledge necessary for the effective management of food and beverage operations encompassing the historical timeline of food and beverage, non-alcoholic beverages, the identification of meats, fishes, fruits, vegetables, dairy products and proteins. This course also introduces the front-of-the-house essentials for food and beverage operations encompassing glassware, service ware and other front-of-the-house equipment.

CUL 2003: Cost Controls

Cross-listed: HA 2003

This course will study the role of cost control management on overall profitability of hospitality entities. Basic principles of purchasing food, beverage, and non-food items with regards to maintaining an operation's competitive advantage within the industry will be covered.

CUL 2023: Hospitality Supervision and Leadership

Cross-listed: HA 2023

This course provides comprehensive coverage of the principles, theories, human-relations techniques, leadership styles, and decision-making skills that are required to manage a team to profitable results in the food service and lodging industries.

CUL 2053: Work Experience

Cross-listed: HA 2053

Prerequisites: HA/CUL major or HA minor.

Sophomore standing or permission of instructor. Placement in selected hospitality settings as a student worker under professional guidance of both agency and faculty. Students are given the opportunity to take part in meaningful work experiences in actual work situations and managerial observation.

Minimum of 200 clock hours of work experience.

CUL 2063: Guest Service Management

Cross-listed: HA 2063

The analysis and development of guest services management skills including leadership behavior, motivation, communication, training, staffing, etiquette, and professional service.

Lecture two hours, lab minimum of three hours depending on the special event requirements. \$100 lab fee which helps to cover your meal costs and/or travel.

CUL 2813: Basic Human Nutrition in Hospitality Administration

Cross-listed: HA 2813

Study of the relationship between nutrition and health as a basis for food choices of all ages; the application of nutrient functions in human life processes and cycles; how balanced eating promotes healthy lifestyles. Current concepts and controversies are highlighted.

CUL 2903: Introduction to Garde Manger

Prerequisite CUL (HA) 1013

This course is an introduction to three main areas of the cold kitchen: reception foods, plated appetizer and buffet arrangements. Students will learn to prepare canapes, hot and cold hors d'oeuvre, appetizers, forcemeats, pates, galantine, terrines, roulades, salads and sausages. Curing and smoking techniques for meat, seafood and poultry items will be covered. Cheese identification, production, presentation and service will be studied. The student will also explore contemporary styles of presenting foods and buffet preparation.

Lecture 1 hour, lab 3 hour minimum. \$100 lab fee required. Additional Costs: professional uniforms and knives are required and are to be considered additional out-of-pocket expenses to the student.

CUL 2913: Principles of Food Preparations

Cross-listed: HA 2913

Prerequisites: CUL (HA) 1013

Co-requisite: CUL (HA) 2813 and CHEM 1114

Upon completion of this course the student should be able to demonstrate skills in basic cooking techniques and methods, recipe conversion, and professional food preparation and handling. Additionally, the student should be able to recognize and safely operate common foodservice equipment used in commercial kitchens and demonstrate proficient culinary knife skills.

This course is 2 hours lecture and a 4 hour lab depending upon special event requirement(s). \$100 lab fee required. Additional costs: professional uniforms and knives are required and are to be considered additional out-of-pocket expenses to the student.

CUL 2923: Stock, Sauces, and Soups

Corequisite: CUL (HA) 2913

This course is an introduction to the basic stocks, sauces and soups and is based on the classical model by Escoffier. Fundamental elements covered include the entire classic French repertoire of hot sauces; the five leading sauces; bechamel, veloute, espagnole (also known as brown), tomato and hollandaise as well as small compound sauces, cold sauces, compound butter, court bouillon and marinades, roux and other thickening agents. Clear soups, thick soups and specialty soups will be introduced and expanded upon.

Lecture 1 hour, lab 3 hour minimum. \$100 lab fee required. Additional costs: professional uniforms and knives are required and are to be considered additional out-of-pocket expenses to the students.

CUL 2933: Advanced Food Preparations

Prerequisite: CUL (HA) 2913

This course reviews basic cooking methods and techniques and refines the understanding of/and application of culinary terminology, proper care and use of tools and equipment as well as safety and sanitation techniques. Students will gain an advanced knowledge of the correct procedures for the following methods: poach, fry, bake, broil, boil, roast, stew, saute, grill and steam. Students will gain an advanced knowledge of vegetable, pasta, grain, and potato cookery as well as preparation of game, fish, shellfish, lamb, and veal.

Lecture 1 hour, lab 3 hour minimum. \$100 lab fee required. Additional costs: professional uniforms and knives are required and are to be considered additional out-of-pocket expenses to the student.

CUL 2943: Introduction to Baking & Pastry

Prerequisite: CHEM 1114

This course introduces basic methods used in baking and pastry. Methods introduced include, creaming, thickening for custards, pre-cooked, foaming, cut-in/rubbing, straight dough, blending and lamination. This course will focus on the range of baking ingredients in original, modified, and prepared forms as well as the theory and operation of large and small equipment used in bakeries and pastry shops. Through preparing, tasting and testing, students will learn to identify and select quality grains, dairy products, baking spices, flours, chocolates, fats, and oils used in baking.

Lecture 1 hour, lab 3 hour minimum. \$100 lab fee required. Additional costs: professional uniforms and knives are required and are to be considered additional out-of-pocket expenses to the student.

CUL 2996: Externship

Prerequisite: Culinary major, sophomore standing, current certifications in CPR, Standard and Advanced First Aid, consent of the department head and completion of all other courses applicable to degree.

This course provides industry experience for students in cooperating businesses, agencies and organizations under professional guidance of both agency supervisor and faculty. While enrolled in this course, a student must work a minimum of 600 hours and a minimum of 15 weeks in an approved position in the hospitality industry. Student cannot document more than 40 hours of work experience per week. No prior experience credit will be given. A written report is required within two weeks of externship completion.

\$100 supervisor travel fee is required.

Driver Education Course Descriptions

DE 4543: Driver and Traffic Education II

Prerequisites: A valid driver's license, admission to teacher education program, a driving record free from frequent and unusual violations.

This course is designed to prepare teachers to organize and teach driver education and traffic safety programs in secondary schools. It includes administration, supervision of personnel, design of facilities, and a research project.

Note: May not be repeated for credit as DE 5543 or equivalent.

DE 4613: Driver and Traffic Education I

Prerequisites: A valid driver's license, admission to teacher education program, and a driving record free from frequent and unusual violations.

This course is designed to prepare teachers to organize and teach driver education and traffic safety programs in secondary schools. This course provides a survey of materials and methods of instruction plus evaluation of textbooks and in car training of a student driver.

Two hour lecture, two hours laboratory.

Note: May not be repeated for credit as DE 5613 or equivalent.

Emergency Admin/Mgmt Course Descriptions

EAM 1003: Living in a Hazardous Environment

Overview of emergency management systems with an analysis of the causes, characteristics, nature and effects of such disasters as avalanches, drought, earthquakes, epidemics, fires, flooding, hazardous materials, hurricanes, industrial accidents, nuclear power plant accidents, power failures, volcanoes, and other catastrophic hazards. Required for major.

EAM 1013: Aim and Scope of Emergency Management

Analysis of disasters in historical settings and current situations. Areas covered include the role of local, state, and federal government, the unique problems of business/industry crisis management, disaster prevention and mitigation policy, technology support, and professionalism and litigation issues. Required for major.

EAM 2033: Citizen/Family/Community Disaster Preparedness Education

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The course covers the need for citizen disaster preparedness; research findings on the subject; program design models; team and coalition building, materials and approaches, effective presentation skills, overcoming disaster denial and apathy; preparedness with children, the elderly, and other high-risk populations.

EAM 3003: Developing Emergency Management Skills

Prerequisites: EAM 1003 and 1013 or consent of instructor.

Topics covered in this course include: program planning and management, financial planning and management, managing information, managing people and time, personality types, leadership styles, followership styles, decision-making skills, team-building skills and group dynamics; community-building skills, intergovernmental relationships, negotiating skills, communications skills, emergency management ethics, and professionalism.

EAM 3013: Public Policy Issues in Emergency Management

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The course will analyze the role of public policy in relation to disaster planning issues, financial impact of disasters, disaster mitigation issues, land use planning, disaster recovery issue, legal and liability issues, management of large-scale disaster response/recovery, and disaster legislation.

EAM 3023: Principles and Practice of Disaster Planning and Response Operations

Prerequisites: EAM 1003 and 1013 or consent of advisor.

The course is an in- depth study of pre-plan requirements, hazards and resource assessments, vulnerability analysis, methodology of planning, and public policy considerations. Course content will include steps necessary for implementing a disaster plan and recovery efforts with consideration given to disaster warning systems, emergency center operations, public health issues in large-scale disasters, the press and communications issues, utilizing local, state, and federal interfaces.

Note: May not be taken for credit after completion of EAM 1023 and 2023.

EAM 3033: The Social Dimension of Disaster

Prerequisites: EAM 1003 and 1013 or consent of instructor.

Overview of empirical vs. theoretical approaches; human behavior in disaster, myths and reality; group disaster behavior; community social systems and disaster; cultures, demographics and disaster behavior distinctions, and model-building in sociological disaster research.

EAM 3123: Public Information Skills for Emergency Managers

This course provides the student with experience in dealing with the media before, during and after a crisis or disaster. The student will be able to demonstrate presentation skills using a variety of communication styles, graphics integration, informational brochures, and electronic resources.

Note: Much of the course will involve working at onsite locations with actual media contact.

EAM 3143: The Economics of Disaster

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The course concentrates on the implications of disaster on state, regional, national, and international economies; case studies in false economies; economics of disaster modeling; and current issues in state, federal, and global economic disaster policy.

EAM 3206: Externship

Prerequisites: EAM 1003 and 1013 or consent of instructor.

This course should be completed by the end of the junior year. Students will enroll in this course, pay the regular tuition and fees, and complete an assessment portfolio documenting their experience and training totaling 150 contact hours. No more than 100 contact hours of FEMA study courses can be applied. At least 50 hours of training or related activities must be included. This course is graded Pass/Fail.

EAM 3243: Introduction to Terrorism

Prerequisites: EAM 1003 and 1013 or consent of instructor.

This course is an overview of terrorism in which students will explore various aspects of terrorism in a Post 9/11 world leading to a basic understanding of a global phenomenon. Subject matter will include the history of terrorism, its strategies, and why those strategies are effective. The student will examine the psychology of fundamentalist religious movements and extreme political organizations. While studying the effects of terrorism the student will examine governmental concerns, preparedness and response operations and the politics of dealing with terrorism.

EAM 4003: Principles and Practice of Disaster Relief and Recovery

Prerequisites: EAM 1003 and 1013 or consent of instructor.

Recovery issues are studied and how they relate to ethical, medical, and economic and environmental considerations; initial, short-term, and long-term recovery efforts and group exercises; and documentation and record-keeping.

EAM 4013: Business and Industry Crisis Management

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The course provides an analysis of the players involved; conjunction with governmental emergency management; legal requirements; employee disaster awareness and preparedness; disaster mitigation and response; business resumption considerations and public policy considerations and community outreach.

EAM 4023: Information Technology and Emergency Management

Prerequisites: EAM 1003 and 1013 or consent of instructor.

This course emphasizes the application of computer technology to emergency management issues. It includes determining information requirements and the acquisition, analysis, modeling and data management processes used to address those requirements. Technologies covered include geospatial, networking, communications, remote sensing, and decision support systems and other emerging technologies related to emergency management. Required for major.

EAM 4033: Emergency Management Research Methods/Analysis

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The course covers the basic research methodology and statistical analysis required for managing a research/data base to be utilized for decision-making and policy development. Required for major.

EAM 4043: Disaster and Emergency Management Ethics

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The course will involve a study of a variety types of ethical theory (teleological, deontological, distributive theories of justice, natural law), a review of specific ethical dilemmas per disaster phase, professional ethics, overcoming biases, avoiding discrimination, and developing sensitivity. Detailed ethical case studies will be conducted (Bhopal, Chernobyl, Three-Mile Island, Love Canal, Exxon Valdez).

EAM 4053: Community Management of Hazardous Materials

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The course addresses chemical properties of hazardous materials and wastes; legal requirements for their handling, storage, transportation, and disposal; and methods for protecting employees, facilities, and the community.

EAM 4106: Practicum/Internship

Prerequisites: EAM 1003 and 1013 or consent of instructor.

Students will enroll in this course and pay the regular tuition and fees in order to obtain credit on their transcripts toward degree requirements. A portfolio will be required to document competencies attained. A minimum of 400 hours of relevant work experience must be completed in an approved internship site. The student will work with an advisor to have a site approved at least one semester in advance.

EAM 4951,4952,4953,4954: Undergraduate Research in Emergency Administration and Management

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

EAM 4991,4992,4993: Special Problems and Topics

Prerequisites: EAM 1003 and 1013 or consent of instructor.

The topics will vary to reflect the continual changes in the emergency management field. This course may also serve as an independent study course upon recommendation of the advisor and approval by the dean.

Early Childhood Education (AS) Course Descriptions

Associate Degree Program

ECE 2113: Basic Child Growth and Development

A study of the various developmental principles affecting the individual from the prenatal period through early adolescence. The course includes observational experiences in settings for young children.

ECE 2313: Foundations and Theories in Early Childhood Education

An introduction to the profession including historical and social foundations, awareness of value issues, ethical and legal issues, staff relations, and the importance of becoming an advocate for children and families.

ECE 2513: Curriculum for Early Childhood Education

Prerequisite or Co-requisite: ECE 2113

A study and application in the field of the theoretical base for early learning. Covers curriculum for young children based on research and theory.

ECE 2613: Methods and Materials Using Developmentally Appropriate Practices and Activities for Young Children

Prerequisite or Co-requisite: ECE 2113

A combination of classroom and field based experiences stressing developmentally appropriate techniques and materials fostering successful development and learning in young children.

ECE 2991,2992,2993,2994,2995,2996,2997,2998,2999: Practicum in Early Childhood Education

Prerequisites: Completion of 12 hours of ECE courses taken for meeting assessment requirements for the Child Development Associate credential.

Variable credit available for documented early childhood training related to the principles and procedures which support the development and operation of an effective early childhood education program. Credit may also be awarded for portfolio development for the Child Development Associate assessment. Equivalencies for awarding credit will be determined by the advisor in accordance with guidelines of the National Association for the Education of Young Children (NAEYC). Additional coursework approved by the advisor may be applied toward any balance of credit needed to complete the nine hours.

Early Childhood Education (BS) Course Descriptions

Bachelor Degree Program

ECED 2001: Introduction to Early Childhood Education

Co-requisite: ECED 2002

This course studies the social, historical, and philosophical foundations in American Education. Basic technology skills including the portfolio will be introduced.

ECED 2002: Field-Based Experience Seminar in Early Childhood

Co-requisite: ECED 2001

This course provides an opportunity for prospective education majors to participate in guided classroom observation with time for reflection and discussion.

ECED 3023: Foundations of Early Childhood Education

Co-requisite: ECED 3033

An introduction to the field of early childhood education, including a history of the movement, influencing concepts and theories, and relevant issues.

ECED 3033: Child Development

Co-requisite: ECED 3023

A study of the physical, cognitive, and psychosocial development of the individual beginning with the prenatal period and continuing through early adolescence. This course includes an on-site field experience in settings for young children.

ECED 3043: Developmentally Appropriate Practice

Prerequisites: ECED 3023 and ECED 3033 and admission to Stage II.

Co-requisite: ECED 3053

A study of developmentally appropriate practice for young children, birth through age 9. This exploration is an integrated curricular study of appropriate early childhood curriculum, materials, environments, assessments, expectations, instructional strategies, and considerations for early childhood educators. Appropriate field observations and experiences are an integral part of this course, and will be integrated with course content.

ECED 3053: Children and Families in a Diverse Society

Prerequisites: ECED 3023 and ECED 3033 and admission to Stage II.

Co-requisite: ECED 3043

A study of the characteristics of young children with developmental disabilities in the contexts of family theory and intervention. Particular emphasis will be placed on how these characteristics impact the child's family and educational needs.

ECED 3113: Integrated Curriculum I (3-5 years)

Prerequisites: ECED 3043 and ECED 3053 and admission to Stage II.

Co-requisites: ECED 3122, ECED 3162, ECED 3172, ECED 3183, ECED 3192

In this course, pre-service teachers build a working knowledge of curriculum strategies and techniques on which to base wise curriculum decision making for children ages 3-5. This course is connected to the ECED 3122 Practicum.

ECED 3122: Practicum I

Prerequisites: ECED 3043 and ECED 3053 and admission to Stage II.

Co-requisites: ECED 3113, ECED 3162, ECED 3172, ECED 3183, ECED 3192

Practicum I is designed to provide pre-service teachers with field-based experiences for children age 3-5 years.

ECED 3162: Diagnosis and Assessment of Young Children I (3-5 years)

Prerequisites: ECED 3043 and ECED 3053 and admission to Stage II.

Co-requisites: ECED 3113, ECED 3122, ECED 3172, ECED 3183, ECED 3192

A study of observational and developmentally appropriate tools and methods of collecting data for decision making. Emphasis is on qualitative assessment techniques that are specific to 3-5 year-old children. This course is connected to the ECED 3122 Practicum.

ECED 3172: Guiding Young Children I (3-5 years)

Prerequisites: ECED 3043 and ECED 3053 and admission to Stage II.

Co-requisites: ECED 3113, ECED 3122, ECED 3162, ECED 3183, ECED 3192

Emphasis is placed on the guidance and management, individually and in groups, of young children ages 3-5 years. The course focuses on developmentally appropriate practices in early childhood settings. Creation of learning environments that foster social competence, build self-esteem in young children, and assist them in the exploration of ways to independently solve problems and gain self-control are emphasized. This course is connected to the ECED 3122 Practicum.

ECED 3183: Language and Literacy I (3-5 years)

Prerequisites: ECED 3043 and ECED 3053 and admission to Stage II.

Co-requisites: ECED 3113, ECED 3122, ECED 3162, ECED 3172, ECED 3192

A study of teaching strategies and support systems for encouraging the various areas of literacy in the 3-5 year-old child. This course is connected to the ECED 3122 Practicum.

ECED 3192: Children's Literature I (3-5 years)

Prerequisites: ECED 3043 and ECED 3053 and admission to Stage II.

Co-requisites: ECED 3113, ECED 3122, ECED 3162, ECED 3172, ECED 3183

Study of sources and types of reading materials available for 3-5 year old children and ways to use them to enhance learning. This course is connected to the ECED 3122 Practicum.

ECED 3213: Integrated Curriculum II (6-9 years)

Prerequisites: ECED 3113 and admission to Stage II.

Co-requisites: ECED 3222, ECED 3262, ECED 3272, ECED 3283, ECED 3292

ECED 3213 builds on the concepts presented in ECED 3113 and emphasizes developmentally appropriate curriculum for children ages 6-9; mandated curriculum; and contemporary issues related to curriculum. This course is connected to the ECED 3222 Practicum.

ECED 3222: Practicum II

Prerequisites: ECED 3122 and admission to Stage II.

Co-requisites: ECED 3213, ECED 3262, ECED 3272, ECED 3283, ECED 3292

Practicum II is designed to provide pre-service teachers with field- based experiences for children age 6-9 years.

ECED 3262: Diagnosis and Assessment of Young Children II (6-9 years)

Prerequisites: ECED 3162 and admission to Stage II.

Co-requisites: ECED 3213, ECED 3222, ECED 3272, ECED 3283, ECED 3292

A study of fundamental observation, assessment, and evaluation concepts and tools. Emphasis on both qualitative and quantitative methods of measuring and reporting student progress and learning. Designed to give the beginning teacher a background in the collection and interpretation of data with the goal of making valid data-driven decisions. This course is connected to the ECED 3222 Practicum.

ECED 3272: Guiding Young Children II (6-9 years)

Prerequisites: ECED 3172 and admission to Stage II.

Co-requisites: ECED 3213, ECED 3222, ECED 3262, ECED 3283, ECED 3292

Emphasis is on the guidance and management, individually and in groups, of primary-aged children, 6-9 years. The course focuses on developmentally appropriate practices in multi-cultural school settings that encourage children to become self- regulated learners. Creation of a context for positive discipline and a guidance approach for an encouraging classroom are explored. This course is connected to the ECED 3222 Practicum.

ECED 3283: Language and Literacy II (6-9 years)

Prerequisites: ECED 3183 and admission to Stage II.

Co-requisites: ECED 3213, ECED 3222, ECED 3262, ECED 3272, ECED 3292

A study of teaching strategies and support systems for encouraging the various areas of literacy in the 6-9 year-old child. This course is connected to the ECED 3222 Practicum.

ECED 3292: Children's Literature II (6-9 years)

Prerequisites: ECED 3192 and admission to Stage II.

Co-requisites: ECED 3213, ECED 3222, ECED 3262, ECED 3272, ECED 3283

Study of sources and types of reading materials available for 6-9 year old children and ways to use them to enhance learning. This course is connected to the ECED 3222 Practicum.

ECED 4915: Early Childhood Education Internship

Prerequisite: Admission to Internship.

(Fifteen hour course.) An intensive field experience and campus seminar class which culminates the early childhood program. Students will spend time in early childhood environments and in campus seminars applying their knowledge and skills in reflective decision making with children and families.

\$100 fee.

Economics Course Descriptions

(Additional prerequisites for 3000-level and 4000-level courses are listed in the [College of Business](#) section of this catalog.)

ECON 2003: Principles of Economics I

Macroeconomic analysis of output, income, employment, price level, and business fluctuations, including the monetary system, fiscal and monetary policy, and international economics.

ECON 2013: Principles of Economics II

Prerequisite: ECON 2003

Microeconomic analysis of consumer and producer behavior. Includes theory of production and cost, the effects of market structure on resource allocation, distribution of income, and welfare economics.

ECON 2103: Honors Principles of Economics I

Prerequisites: Admission to University Honors or permission of Honors Director.

Macroeconomic analysis of output, income, employment, price level, and business fluctuations, including the monetary system, fiscal and monetary economics, and international economics.

ECON 3003: Money and Banking

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Nature, principles and functions of money, macroeconomic theory, development and operation of financial institutions in the American monetary system, with emphasis on processes, problems, and policies of commercial banks in the United States.

ECON 3013: Economics of Labor Relations

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

An overview of U.S. labor sector including demographic trends, labor unions, human capital issues and work-leisure values. A brief review of neo-classical wage theory with critiques. Selected labor sector issues such as global labor developments, public sector employment, migration/mobility and discrimination.

ECON 3073: Intermediate Microeconomic Theory

Prerequisites: ECON 2003 and 2013, MATH 2243 or 2914, and junior standing. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

An examination of the theories of consumer behavior and demand, and the theories of production, cost and supply. The determination of product prices and output in various market structures and an analysis of factor pricing.

ECON 3093: Econometrics

Prerequisites: BUAD 2053, PSY 2053 or MATH 2163 or consent of instructor. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course develops the theory and applications of regression analysis, which is the primary tool for empirical work in economics. Emphasis is placed on techniques for estimating economic relationships, economic modeling, inference, and testing economic hypotheses in the context of real world problems. Students will also be exposed to other empirical techniques to prepare them for further studies.

ECON 4001,4002,4003: Readings in Economic Theory

Offered: On demand

Prerequisites: Senior standing, background of courses needed for problem undertaken and permission of the department head. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Advanced study on an individual basis is offered in money and banking, public finance, general economics, international trade, labor relations, transportation.

ECON 4033: Current Economic Problems

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Emphasis is on a "way of thinking" about current economic problems including a conceptual context, critical thinking and problem solving approaches. Major domestic and global economic trends are reviewed. Current economic issues are selected for evaluation.

ECON 4053: Comparative Economic Systems

Offered: Fall

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Survey of a conceptual framework for comparing national economies and for studying a global economic system. Review of the current world economic environment and of policy issues at the national and multinational levels.

ECON 4073: World Economic Systems

Offered: On demand

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of the institutional framework of an economic system selected by the instructor. The course includes a visit to the country being studied.

ECON 4093: International Economics and Finance

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A course designed specifically for economics and finance majors desiring an understanding of the interplay of economic and financial forces between nations. While developing the theoretical base underlying these forces, the course will emphasize practical aspects of cross border flows of goods, services, and capital from the point of view of the firm. Lecture and discussion will be supplemented by analysis of cases and current events where appropriate. The content of the course should be readily applicable to any private or public sector policy making situation involving an international dimension in which students find themselves.

Educational Media Course Descriptions

EDMD 3013: Integrating Instructional Technology

An instructional technology course for preservice to teachers introducing students to the incorporation of technology into instructional situations. Students will become familiar with classroom computer utilization for instructional and classroom management technology, state and national standards for technology and curriculum areas, and create lessons centered upon those standards.

EDMD 4033: Introduction to Instructional Technology

A media methods course for teachers providing an introduction to classroom computer utilization; applications of the principles of graphic design, visual literacy, communications and learning theory to the selection, evaluation and use of instructional materials, and a survey of production techniques for teacher made materials. Includes basic production principles, operation of audiovisual equipment, and an introduction to computer assisted instruction and computerized classroom management.

Note: May not be repeated for credit as EDMD 5033 or equivalent.

Electrical Engineering Course Descriptions

ELEG 1012: Introduction to Electrical Engineering

An introductory course to acquaint students with the fundamental techniques in the field of electrical engineering. Topics include technical and ethical aspects of electrical engineering, problem solving skills, electrical measurements and calculations, basic circuits and prototyping.

Lecture/lab two hours

ELEG 2103: Electric Circuits I

Co-requisite: MATH 3243 or consent of instructor.

An introduction to circuit theory and electrical devices. Topics include resistive circuits, independent and dependent sources; analysis methods, network theorems; RC and RL first order circuits, and RLC second order circuits.

ELEG 2111: Electric Circuits Laboratory

Co-requisite: ELEG 2113

Report writing; use of basic electrical measurement devices; voltmeters, ammeters, R meters, wattmeters, and oscilloscopes. Computer modeling and data analysis of AC and DC circuits. Emphasis on developing laboratory techniques through experiments paralleling topics in ELEG 2103 and ELEG 2113.

Laboratory three hours per week.

ELEG 2113: Electric Circuits II

Prerequisites: ELEG 2103 or consent of instructor

A continuation of ELEG 2103 covering phasor analysis, steady state power, complex network functions, frequency response, transformers, Laplace methods.

ELEG 2130: Digital Logic Design Lab

Co-requisites: ELEG 2134 and COMS 2104 or consent of instructor.

Laboratory must be taken during the same semester as the lecture, ELEG 2134. A study of basic digital logic circuit design and implementation. Circuit schematic development utilizing computerized automated design tools. Computer modeling and simulation of digital systems. Emphasis will be placed on proper laboratory techniques, including data collection, data reduction, and report preparation.

Laboratory three hours

ELEG 2134: Digital Logic Design

Co-requisites: ELEG 2130 and COMS 2104 or consent of instructor.

Binary numbers and codes, Boolean algebra, combinational and sequential logic including: minimization techniques, memory systems, register transfers, control logic design, and state machines.

ELEG 3003: Engineering Modeling and Design

Cross-listed: MCEG 3003

Prerequisites: COMS 2803 or MCEG 2203 and MATH 3243

Reduction of engineering systems to mathematical models; methods of analysis using computers; interpretation of numerical results; optimization of design variables. Examples are drawn from various engineering disciplines.

ELEG 3103: Electronics I

Prerequisite: ELEG 2111 and ELEG 2113

Physics and electrical characteristics of diodes, bipolar transistors, and field effect transistors, behavior of these devices as circuit elements; common electronic circuits in discrete and integrated form; digital circuits including standard IC gates and flip flops, linear circuits including standard discrete and integrated amplifier configurations and their characteristics.

ELEG 3123: Signals and Systems

Prerequisites: MATH 3243, ELEG 2113

Signal and system modeling, time and frequency domain analysis, singularity functions, the Dirac Delta function, impulse response, the superposition integral and convolution, Fourier series and Fourier and Laplace transformations.

ELEG 3133: Microprocessor Systems Design

Prerequisites: ELEG 2134 and ELEG 2130 or consent

Digital design using microprocessors. Microcomputer architecture, memory structures, I/O interfaces, addressing modes, interrupts, assembler programming, development tools. This course should also attract computer science students interested in hardware.

ELEG 3143: Electromagnetics

Prerequisites: MATH 2934 and PHYS 2124

Prerequisite or Co-requisite: ELEG 3123

An introduction to static and dynamic electromagnetic fields using vector methods. Transmission lines, electrostatic fields, magnetostatic fields, Maxwell's equations, plane electromagnetic wave propagation, reflection, refraction, attenuation, antennas, reciprocity, and gain.

ELEG 3153: Electrical Machines

Prerequisite: ELEG 2113

Steady state analysis of single phase and polyphase transformers, direct current machines, synchronous machines, induction machines, and special purpose machines. Special emphasis will be given to the modeling and control of these machines.

ELEG 3163: Electric Power Systems

Prerequisite: ELEG 2113, PHYS 2124

Introduction to power system analysis and operation. Topics included: mathematical modeling of power system components, power flow analysis, symmetric and asymmetric faults and economic operation of power systems.

ELEG 3173: Math Methods for Engineers

Offered: Annually

Prerequisite: MATH 3243

This course is designed to give the undergraduate student an introduction to a variety of advanced mathematical techniques used in solving engineering problems. The course will cover linear algebra, complex variables, discrete mathematics, and applied statistics.

ELEG 4103: Electronics II

Prerequisite: ELEG 3103

A continuation of ELEG 3103 specializing in characteristics and applications of both linear and digital integrated circuits;

amplifiers, feedback analysis, frequency response, oscillators, amplifier stabilization, microprocessors, memory systems, emphasis on design.

ELEG 4113: Digital Signal Processing

Prerequisite: ELEG 3123, ELEG 3133 and ELEG(MCEG) 3003

The study of discrete-time signals and systems, convolution, correlation, z-transform, discrete-time Fourier transform, analysis and design of digital filters.

ELEG 4122: Electrical Systems Lab

Offered: Annually

Prerequisite: ELEG 3103

Co-requisite: ELEG 4103

The course presents advanced topics in electrical engineering system design. Topics include discrete components, ICs, PLCs, and data acquisition systems.

\$15 laboratory fee.

ELEG 4133: Advanced Digital Design

Prerequisite: ELEG 2134

Principles of digital systems design and the use of hardware description languages (HDL) are targeted toward the development of programmable logic devices in this project oriented course. The basic tenets of HDL will be presented including design flow, structural and behavioral descriptions, data types, concurrent and sequential statements, processes, procedures, functions, and packages. Approximately one hour per week will be devoted to supervised project development.

ELEG 4143: Communication Systems I

Prerequisite: ELEG 3123

An introduction to design and analysis of analog and digital communication systems. Amplitude and angle modulation and demodulation, bandwidth, frequency division multiplexing, sampling and pulse-code modulation, detection error statistics in digital communication.

ELEG 4153: Communication Systems II

Prerequisite: ELEG 4143

Continuation of ELEG 4143. Design and analysis of analog and digital communication systems, taking into account the effects of noise. Random variables, random processes, analog and digital communication systems in the presence of noise.

ELEG 4193: Electrical Design Project

Prerequisites: ELEG 3003 and ELEG(MCEG) 4202, senior standing and consent of instructor.

Co-requisite: ELEG 4103

An independent or group project in electrical engineering design. Where appropriate, a team approach will be employed. Emphasis will be placed on designing an electrical system or sub system with due regard for: safety, environmental concerns, reliability, longevity, ease of manufacturing, maintainability, and cost effectiveness. A written and oral report are required.

ELEG 4202: Engineering Design

Cross-listed: MCEG 4202

Prerequisites: ELEG major, senior standing

Co-requisite: ELEG 3103

This course serves as the first part of a two course sequence in which the student completes a senior design project. Design methodologies and tools including real world design considerations such as environmental impact, engineering ethics, economics, safety, product costing and liability are introduced. Design for manufacture, project management, scheduling and proposal writing will be covered. Successful completion of this course shall require completion of a proposal for a senior design project being accepted by the faculty design project review process.

ELEG 4303: Control Systems

Prerequisites: ELEG(MCEG) 3003 and ELEG 2113

An introduction to the field of control system engineering. Topics include: open and closed loop systems; mathematical modeling of electrical and mechanical systems; linearization; stability; block diagram reduction; signal flow graphs; transient analysis; stability analysis; root locus analysis; frequency analysis; and an introduction to compensator design.

ELEG 4313: Modern Control Systems

Prerequisite: ELEG 4303

A continuation of ELEG 4303 Control Systems. Topics include: frequency response design, state space analysis, controllability, observability, state space design, robustness, and an introduction to digital control.

ELEG 4951,4952,4953,4954: Undergraduate Research in Electrical Engineering

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

ELEG 4991,4992,4993,4994: Special Problems in Engineering

Prerequisite: Minimum of three hours at the junior level in area of study.

Individual study in advanced area of the student's choice under the direction of a faculty advisor.

English Course Descriptions

ENGL 0203: English as a Second Language

A course in basic English grammar, composition, reading, aural comprehension, and oral communication designed to prepare speakers of English as a second language for the six hour, college level composition sequence.

Note: The grade in this course will be computed in semester and cumulative grade point averages, but the course may not be used to satisfy general education requirements nor provide credit toward any degree.

Students who are placed in ENGL 0203 must earn a grade of C or better in the course before enrolling in ENGL 1013. A student who makes a D or F in ENGL 0203 must repeat the course in each subsequent semester until he or she earns a grade of C or better.

ENGL 0303: Foundational Composition

A course in basic grammar and writing to prepare students for the required six hour composition sequence.

Note: The grade in the course will be computed in semester and cumulative grade point averages, but the course may not be used to satisfy general education requirements nor provide credit toward any degree.

A student who is placed in ENGL 0303 must earn a grade of C or better in the course before enrolling in ENGL 1013. A student who makes a D or F in ENGL 0303 must repeat the course in each subsequent semester until he or she earns a grade of C or better.

ENGL 0404: Developmental Reading and Writing

A course in basic reading and writing skills designed to prepare students for success in the six-hour composition sequence.

Note: The grade in ENGL 0404 will be computed in semester and cumulative grade point average, but the course may not be used to satisfy general education requirements nor provide credit toward any degree.

A student may enroll in ENGL 0404 and ENGL 1013 concurrently. A student who makes a "D" or "F" in ENGL 0404 must repeat the course in each subsequent semester until he or she earns a grade of "C" or better.

ENGL 1013: Composition I

Prerequisites: Score of 19 or above on English section of the Enhanced ACT, 460 or above on the quantitative portion of the SAT, 40 or above on the TSWE, 75 or above on the COMPASS writing section, or a grade of C or better in ENGL 0203 or 0303.

A review of grammar, introduction to research methods, and practice in writing exposition using reading to provide ideas and patterns.

Note: May not be taken for credit after successful completion of ENGL 1043.

ENGL 1023: Composition II

Prerequisites: Minimum grade of C in ENGL 1013 or 1043.

A continuation of ENGL 1013 with readings in poetry, fiction, and drama.

Note: May not be taken for credit after successful completion of ENGL 1053.

ENGL 1043: Honors Composition I

Prerequisite: Admission to the Tech Honors Program or permission of the Honors Program Director.

An honors course that concentrates on advanced reading and writing skills.

Note: A grade of C or better must be earned in each of the two composition courses used to satisfy the general education requirement of English/ Communication.

ENGL 1053: Honors Composition II

Prerequisite: Successful completion of ENGL 1013 or ENGL 1043 and admission to the Tech Honors Program or permission of the Honors Program Director.

An honors writing course that includes the study of poetry, fiction, and drama.

Note: A grade of C or better must be earned in each of the two composition courses used to satisfy the general education requirement of English/ Communication.

ENGL 2003: Introduction to World Literature

Prerequisite: ENGL 1013 or equivalent.

An exploration of significant authors and themes in world literature.

Note: ENGL 2003 may be used to fulfill the general education humanities requirements.

ENGL 2013: Introduction to American Literature

Prerequisite: ENGL 1013 or equivalent.

An exploration of significant authors and themes in American literature.

Note: ENGL 2013 may be used to fulfill the general education humanities requirement.

ENGL 2023: Honors World Literature

Prerequisites: Successful completion of ENGL 1013 or 1043 and admission to the Tech Honors Program, or permission of the Honors Program Director.

An honors course that explores significant authors and themes in world literature.

Note: ENGL 2023 may be used to fulfill the general education humanities requirement.

ENGL 2043: Introduction to Creative Writing

Prerequisite: ENGL 1023 or equivalent

Introduction to techniques of writing both fiction and poetry.

ENGL 2053: Technical Writing

Prerequisite: ENGL 1023 or equivalent

Practice in composing abstracts, instructions, visuals, proposals, questionnaires, letters, memos, and a variety of informal and formal reports.

ENGL 2063: Advanced Composition: Practice and Theory

Prerequisite: ENGL 1023 or equivalent

Practice with several types of expository writing. An introduction to research techniques and composition theory.

ENGL 2173: Introduction to Film

Cross-listed: Jour 2173

Prerequisite: ENGL 1013 or equivalent

A study of film as an art form with particular attention given to genres, stylistic technique and film's relation to popular culture.

Note: ENGL 2173 may be used to fulfill the General Education fine arts requirement.

Note: ENGL 2173 may not be repeated for credit after the completion of JOUR 2173.

ENGL 2213: Introduction to Drama

Prerequisite: ENGL 1013 or equivalent

A study of drama as literature; a study of terminology and elements of drama and the reading of selected works, including both classic and contemporary.

ENGL 2223: Introduction to Poetry

Prerequisite: ENGL 1013 or equivalent

A study of basic form, terminology and specific works.

ENGL 2233: Introduction to Fiction

Prerequisite: ENGL 1013 or equivalent

A study of form, terminology, and specific works of fiction.

ENGL 2263: Mythology

Prerequisite: ENGL 1013 or equivalent

An introduction to the Western mythologies and a study of their influence on Western literature.

ENGL 2283: Science Fiction and Fantasy

Prerequisite: ENGL 1013 or equivalent

A survey course which covers classics of the science fiction and fantasy genres. Approach to the works is both historical and thematic.

ENGL 2881: Practicum-Literary Journal Publication

Prerequisite: ENGL 1013 or equivalent

Students will work as staff members of NEBO: A Literary Journal.

Note: May be repeated for a maximum of five semester hours. Cumulative hours in ENGL 2881 and ENGL 4881-4 may not exceed nine.

ENGL 3013: Systems of Grammar

Prerequisite: ENGL 1023 or equivalent

Students are recommended to complete ENGL 3023 before enrolling in this course. A synthesis of the most useful elements of traditional, transformational, and structural grammar.

ENGL 3023: Introduction to Linguistics

Cross-listed: FR 3023, GER 3023, SPAN 3023, SPH 3023

Prerequisite: ENGL 1023 or equivalent

A study of basic concepts in language, comparative characteristics of different languages, and the principles of linguistic investigation.

ENGL 3043: Literary Editing and Publishing

Prerequisite: ENGL 1023

A study of literary editing and publishing in print and online.

ENGL 3083: Fiction Workshop

Prerequisite: ENGL 2043.

Concentration in the writing and evaluation of fiction.

Note: May be repeated once for credit as ENGL 3083.

ENGL 3093: Poetry Workshop

Prerequisite: ENGL 2043

Concentration in the writing and evaluation of poetry.

Note: May be repeated once for credit as ENGL 3093.

ENGL 3103: Literary Theory

Prerequisite: ENGL 1023 or equivalent

A study of contemporary critical approaches to literature.

ENGL 3173: Studies in Film

Prerequisite: ENGL 1023 or equivalent

A focused study of selected films. Course content will vary.

Note: May be repeated for credit as ENGL 3173 if course content differs.

ENGL 3203: Modern Novel

Prerequisite: ENGL 1023 or equivalent

Reading in representative novels written since 1900.

ENGL 3223: Young Adult Literature

Prerequisite: ENGL 1023 or equivalent

A survey of young adult literature.

ENGL 3243: Early Novel

Prerequisite: ENGL 1023 or equivalent

Reading in representative novels written before 1900.

ENGL 3293: Studies in Literature and Language

Prerequisite: ENGL 1023 or equivalent

A focused study of selected literary works or selected language topics. Course content will vary.

Note: May be repeated for credit as ENGL 3293 if course content differs.

ENGL 3303: Literature of the South

Prerequisite: ENGL 1023 or equivalent

Reading in representative works by writers in the South since the Civil War.

ENGL 3313: American Literature to 1900

Prerequisite: ENGL 1023 or equivalent

Readings in the works of colonial and nineteenth century American authors.

ENGL 3323: Modern American Literature

Prerequisite: ENGL 1023 or equivalent

Readings in the works of twentieth century American authors.

ENGL 3413: British Literature to 1800

Prerequisite: ENGL 1023 or equivalent

Readings in the works of selected early British authors.

ENGL 3423: British Literature since 1800

Prerequisite: ENGL 1023 or equivalent

Readings in the works of nineteenth-and twentieth-century British authors.

ENGL 3453: Chaucer

Prerequisite: ENGL 1023 or equivalent

A study of representative works.

ENGL 3463: Shakespeare

Prerequisite: ENGL 1023 or equivalent

A study of selected comedies, histories, and tragedies.

ENGL 3513: Methods of Research

Prerequisite: ENGL 2063, equivalent, or consent.

A study of techniques for research.

ENGL 4013: History of the English Language

Prerequisite: ENGL 3023, equivalent, or consent.

The development of English sounds, inflections and vocabulary.

ENGL 4023: Second Language Acquisition

Prerequisite: ENGL 1023, equivalent, or permission of the instructor.

An investigation and analysis of the theoretical foundations of learning a second language as a guide to the effective teaching of English to limited English proficiency (LEP) students.

ENGL 4053: Seminar in Technical Communication

Prerequisite: ENGL 2053 or consent.

Course content will vary.

Note: May be repeated for credit as ENGL 4053 if course content differs.

ENGL 4083: Seminar: English Language

Prerequisite: ENGL 1023 or equivalent

Course content will vary.

Note: May be repeated for credit as ENGL 4083 or ENGL 5083 if course content differs.

ENGL 4093: Seminar in Creative Writing

Prerequisite: ENGL 2043

Course content will vary.

Note: May be repeated for credit as ENGL 4093 if course content varies.

ENGL 4173: Seminar in Film Studies

Prerequisite: ENGL 1023 or equivalent

Course content will vary.

Note: May be repeated for credit as ENGL 4173 or ENGL 5173 if course content differs.

ENGL 4213: American Folklore

Prerequisite: ENGL 1023 or equivalent

A study of the forms and subjects of American folklore, folklore scholarship and bibliography; field work in collecting folklore.

Note: May not be repeated for credit as ENGL 5213.

ENGL 4283: Seminar: World Literature

Prerequisite: ENGL 1023 or equivalent

Course content will vary.

Note: May be repeated for credit as ENGL 4283 or ENGL 5283 if course content differs.

ENGL 4383: Seminar: American Literature

Prerequisite: ENGL 1023 or equivalent

Course content will vary.

Note: May be repeated for credit as ENGL 4383 or ENGL 5383 if course content differs.

ENGL 4483: Seminar: British Literature

Prerequisite: ENGL 1023 or equivalent

Course content will vary.

Note: May be repeated for credit as ENGL 4483 or ENGL 5483 if course content differs.

ENGL 4683: Seminar In Gender Studies

Prerequisite: ENGL 1023 or equivalent

Course content will vary.

Note: May be repeated for credit as ENGL 4683 or ENGL 5683 if course content differs.

ENGL 4703: Teaching English as a Second Language

Prerequisite: ENGL 1023, equivalent, or consent.

An investigation and practice in teaching different levels of English grammar, oral communication, comprehension skills, reading, and composition to foreign students.

ENGL 4713: ESL Assessment

Prerequisite: ENGL 1023, equivalent, or consent.

An introduction to the tools, techniques, and procedures for evaluating the English proficiency and language development of ESL students.

ENGL 4723: Teaching People of Other Cultures

Prerequisite: ENGL 1023, equivalent, or consent.

An examination of cultural diversity in Arkansas and the United States, designed for prospective ESL teachers.

ENGL 4733: Teaching English in the Secondary School

Prerequisite: ENGL 2003, SPH 2003, and admission to Stage II of the teacher education program.

To be taken within one year before student teaching. An introduction to methods and materials used to teach secondary English.

ENGL 4813: Senior Project in Creative Writing

Prerequisites: Completion or concurrent enrollment in ENGL 3083 and ENGL 3093.

Completion of a significant creative writing project approved by the instructor.

ENGL 4881,4882,4883,4884: Practicum-Editing Literary Journal

Prerequisites: ENGL 3083, 3093, or consent.

To select and edit writing for publication and to direct staff members in the production of NEBO: A Literary Journal. Candidates for editorial positions must apply to the English Department at the start of the spring semester.

Note: May be repeated for a maximum of six semester hours. Cumulative hours in ENGL 2881 and ENGL 4881-4 may not exceed nine.

ENGL 4951,4952,4953,4954: Undergraduate Research in English

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

ENGL 4991,4992,4993,4994: Special Problems in English

Prerequisites: English major or minor and consent of instructor and department head.

Course content and credit are designed to meet the needs of the student.

Finance Course Descriptions

(Additional prerequisites for 3000-level and 4000-level courses are listed in the [College of Business](#) section of this catalog.)

FIN 2013: Personal Finance

Prerequisite: Sophomore standing

A course designed to provide students with the fundamental skills of personal financial planning and goal achievement. Topics covered include financial planning, cash and credit management, insurance, investment, and retirement and estate planning.

FIN 3043: Investments I

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course provides the fundamental concepts of the investment area including markets, stocks and bonds, investment environments, economic, industry and security analysis, and portfolio concepts.

Note: May not be taken for credit after successful completion of ECON 3043.

FIN 3063: Business Finance

Prerequisites: BUAD 2053. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Nature of business finance and its relation to economics, accounting, and law; role of the financial manager and financial markets; financial forecasting, planning, and budgeting; securities valuation, capital budgeting, and cost of capital; capital structure and working capital management; international finance.

Note: May not be taken for credit after successful completion of ECON 3063.

FIN 4023: Investments II

Prerequisites: FIN 3043 (ECON 3043). Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course provides further work with investment concepts involving derivative securities, specialized investment products, international investing, real estate, insurance products, construction of a portfolio, and work with computerized investment software.

Note: May not be taken for credit after successful completion of ECON 4023.

FIN 4043: Principles of Risk and Insurance

Prerequisites: FIN 3063 (ECON 3063). Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A course designed to provide an understanding of the insurance field. Course content includes a survey of the extent and types of risk in business; ways of dealing with business risk; and a survey of insurance for risk-bearing purposes.

Note: May not be taken for credit after successful completion of ECON 4043.

FIN 4053: Internship I in Economics/Finance

Prerequisites: Permission of the Instructor, Department Head and Dean; Junior Standing; minimum 2.5 overall GPA. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A supervised, practical experience providing undergraduate ECON/FIN majors with a hands-on, professional experience in a position relating to an area of career interest. The student will work in a local cooperating business establishment under the supervision of a member of management of that firm. A College of Business faculty member will observe and consult with the students and the management of the cooperating firm periodically during the period of the internship.

Students will be required to make a classroom presentation, maintain an internship log, and prepare a final term paper.

Note: Only three hours of internship may be used to satisfy the curriculum requirements for economics and finance electives. Additional hours may be used to satisfy the curriculum requirements for general electives.

FIN 4063: Internship II in Economics/Finance

Prerequisites: Internship I, permission of the Instructor, Department Head and Dean; Junior Standing; minimum 2.5 overall GPA. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

To be taken following completion of Internship I. A supervised, practical experience providing undergraduate ECON/FIN majors with a hands-on, professional experience in a position relating to an area of career interest. The student will work in a local cooperating business establishment under the supervision of a member of management of that firm. A College of Business faculty member will observe and consult with the students and the management of the cooperating firm periodically during the period of the internship. Students will be required to make a classroom presentation, maintain an internship log, and prepare a final term paper.

Note: Only three hours of internship may be used to satisfy the curriculum requirements for economics and finance electives. Additional hours may be used to satisfy the curriculum requirements for general electives.

FIN 4103: Special Topics in Finance

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course provides in-depth exploration of selected finance topics. The primary topic will vary from offering to offering; this, the course may be taken more than once.

French Course Descriptions

FR 1014: Beginning French I

Training in the elements of French communication and comprehension.

Note: Advanced placement and credit by examination are available to students who have previously studied French.

Four hours of applied class work. One hour of foreign language lab per week is required.

FR 1024: Beginning French II

Prerequisite: FR 1014 or equivalent

Training in basic French communication and comprehension skills to satisfy minimum survival needs in French-speaking countries.

Four hours of applied class work. One hour of foreign language lab per week is required.

FR 2014: Intermediate French I

Prerequisite: FR 1024 or equivalent

Development of the skills necessary to understand and communicate in everyday situations in French speaking countries.

Four hours of applied class work. One hour of foreign language lab per week is required.

FR 2024: Intermediate French II

Prerequisite: FR 2014 or equivalent

Further development of the skills necessary to understand and communicate in everyday situations in French-speaking countries.

Four hours of applied class work. One hour of foreign language lab per week is required.

FR 3003: Conversation and Composition I

Prerequisite: FR 2024 or permission of instructor.

Development of advanced control of French communication and comprehension through the study of French language media (radio broadcasts, television newscasts and commercials, prose texts, periodical articles) and through classroom debates and simulations.

Laboratory work by arrangement.

FR 3013: Conversation and Composition II

Prerequisite: FR 3003 or permission of instructor.

Continuation of FR 3003.

FR 3023: Introduction to Linguistics

Cross-listed: ENGL 3023, GER 3023, SPAN 3023, SPH 3023

Prerequisites: ENGL 1023 or equivalent and FR 2024 or equivalent.

A study of basic concepts in language, comparative characteristics of different languages, and the principles of linguistic investigation.

FR 3113: Culture and Civilization

Prerequisite: FR 3013 or permission of instructor.

Development of an understanding of French life through study and analysis of French history and geography texts, film, advertising, and mass media.

FR 3143: Study Abroad

Prerequisite: Enrollment in a Tech-sanctioned study program in a French-speaking country, completion of FR 2024 or equivalent, and permission of the Study Abroad supervisor.

Study of the contemporary language and culture in a French speaking country.

Note: May substitute for FR 3003 or FR 3013, depending on the student's proficiency level.

FR 3163: Community Internship Experience

Prerequisite: Completion of FR 2024 or equivalent.

Study of contemporary language and culture in a French-speaking community or setting.

Note: May be taken instead of FR 3143 to meet degree requirements.

FR 3213: Advanced Grammar and Usage

Prerequisites: FR 3013 or permission of instructor.

The course is designed to build writing competence and strengthen grammatical competence. Grammar will be studied within the context of writing assignments. The course will deepen the knowledge of the language through the usage of applied linguistics, syntax, grammar, and semantics.

FR 3223: Short Story

Prerequisites: FR 3013 or permission of instructor.

The course is designed to build writing competence and strengthen grammatical competence. Grammar will be studied within the context of writing assignments. The course will deepen the knowledge of the language through the usage of applied linguistics, syntax, grammar, and semantics.

FR 4003: Oral Communication

Prerequisite: FR 3013 or permission of instructor.

This course is designed to strengthen students' oral communication skills by enabling them to converse easily with native speakers on everyday topics in preparation for the oral proficiency interview (OPI).

\$134 interview fee.

FR 4213: French Literature to 1800

Prerequisite: FR 3223 or permission of instructor.

Careful study of selected French texts to introduce students to various literary genres and general literary trends.

FR 4223: French Literature since 1800

Prerequisite: FR 3223 or permission of instructor.

A study of representative texts from the period for understanding of genres, styles, and language.

FR 4283: Seminar in French

Prerequisite: FR 3013

Course content will vary. May be repeated for credit if course content varies.

FR 4701: Foreign Language Pedagogy

Cross-listed: GER 4701, SPAN 4701

Prerequisites: Admission to student teaching phase of the teacher education program.

Co-requisite: SEED 4909

Intensive on-campus exploration of the principles of curriculum construction, applied methods, professional collaboration, and evaluation as related to teaching French, German, or Spanish, followed by professional internship application of these principles under the supervision of a qualified departmental instructor.

FR 4703: Foreign Language Teaching Methods

Cross-listed: GER 4703, SPAN 4703

Prerequisites: FR 3013 and 3113 or equivalent; admission to Stage II of the Secondary Education sequence or equivalent.

Survey of instructional methods with discussions and demonstrations of practical techniques for the teaching of foreign language.

FR 4801: Cultural Immersion and Research

Prerequisites: Enrollment in French Immersion Weekend and permission of instructor.

Intensive study of French cultural topics followed by individual research projects. May be repeated for credit if content varies.

FR 4901,4902,4903: Foreign Language Internship

Prerequisites: Advanced foreign language proficiency; permission of the instructor and the department head.

The Foreign Language Internship is intended primarily for majors in foreign languages or international studies. It is designed to provide outstanding students the opportunity to perfect their language proficiency and to acquire specific training and skills overseas. The overseas sponsor and the foreign language instructor of record will supervise the intern. Performance evaluations and a research paper will be required.

FR 4951,4952,4953,4954: Undergraduate Research in French

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

FR 4991,4992,4993,4994: Special Problems in French

Prerequisite: FR 2024 and consent of the instructor and the department head.

Designed to provide advanced students with a course of study in an area not covered by departmental course offerings.

Fisheries Wildlife Biology Course Descriptions

FW 1001: Orientation to Fisheries and Wildlife Science

Offered: Fall

An introduction to professions in fisheries and wildlife science. Required of fisheries and wildlife students during their first fall term on the Tech campus.

FW 2003: Elements of Fish and Wildlife Management

Offered: Fall

Principles of fish and wildlife management for the non major, including fish and wildlife identification and the role of various natural resource organizations in conservation.

FW 2013: Natural Resources Communications

Offered: Spring

Prerequisite: ENGL 1023 or alternate

An investigation and practice of effective communication techniques typically used in natural resources management. The focus of this course is to teach students to effectively communicate complex scientific messages to diverse audiences. Specific types of communication explored will include construction of figures, graphs and tables, power point presentations, abstracts and technical reports specific to the natural resources discipline.

FW 2833: Introduction to Geographic Information Systems

Cross-listed: GEOG 2833

An introductory course dealing with computer organized spatial and attribute data. GIS is a system of specialized computer programs with the capability to manipulate and analyze data for problem solving.

FW 3053: Fisheries and Wildlife Administration

Offered: Fall of even years

Prerequisites: FW 1001 and junior standing, or permission of instructor.

Administration of fish and wildlife agencies, including organizational designs and policies, planning, directing, budgeting, personnel management, and public relations. Special consideration will be given to public, scientific, and economic considerations in the decision making process.

FW 3074: Habitat Evaluation

Offered: Fall of even years

Introduction to aquatic and terrestrial habitat mensuration and evaluation for field biologists, with emphasis on the description and demonstration of evaluation procedures and software.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

FW 3084: Ichthyology

Cross-listed: BIOL 3084

Offered: Fall

Prerequisite: BIOL 2124

Systematics, collection, identification, natural history, and importance of fishes.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

FW 3114: Principles of Ecology

Cross-listed: BIOL 3114

Prerequisites: BIOL 2124, 2134, and one semester of chemistry.

Responses of organisms to environmental variables, bioenergetics, population dynamics, community interactions, ecosystem structure and function, and major biogeographical patterns.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

FW 3144: Ornithology

Cross-listed: BIOL 3144

Offered: Spring

Prerequisite: BIOL 2124

An introduction to the biology of birds. The course covers aspects of anatomy, physiology, behavior, natural history, evolution, and conservation of birds. Laboratories address field identification and natural history of the birds of Arkansas.

Note: Students will be expected to participate in an extended 5-7day field trip.

Lecture two hours, lab four hours. \$20 laboratory fee.

FW 3154: Mammalogy

Cross-listed: BIOL 3154

Offered: Fall

Prerequisite: BIOL 2124

Taxonomy identification, ecology, and study natural history of the mammals.

Lecture three hours, laboratory two hours. \$20 laboratory fee.

FW 3173: Biostatistics

Offered: Fall

Prerequisite: one semester of statistics.

An analysis and interpretation of fisheries and wildlife data including descriptive statistics, hypothesis testing, analysis of variance, simple linear regression, correlation, goodness of fit, and contingency tables.

FW 3204: Aquaculture

Offered: Spring

Prerequisite: BIOL 2124 or permission of instructor.

Course is designed to provide students with the essentials of successful warmwater aquaculture including crayfish and alligators. Basics of cool and coldwater aquaculture are also covered. Emphasis ranges from maintenance of brood stock and culture of fingerlings to production of market size fish.

Lecture three hours, laboratory two hours plus several full-day field trips that may involve weekend or overnight travel. \$20 laboratory fee.

FW 3224: Herpetology

Cross-listed: BIOL 3224

Offered: Spring of odd years

Prerequisite: BIOL 2124.

The phylogeny, classification, physiology, behavior, and distribution of reptiles and amphibians. The Laboratory will stress identification of the species found in Arkansas.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

FW 4001: Senior Seminar in Fisheries and Wildlife Biology

Offered: Fall

Prerequisites: Senior fisheries and wildlife biology major or by consent of instructor.

Designed to integrate various aspects of fisheries and wildlife biology by covering current topics and to acquaint students with areas not covered elsewhere in the curriculum.

FW 4003: Principles of Wildlife Management

Offered: Spring

Prerequisite: FW(BIOL) 3114 or permission of instructor.

Principles of managing wildlife resources with emphasis on the history of wildlife resources in the United States, population ecology, wildlife values, and the administration of wildlife resources and resources agencies.

FW 4013: Wildlife Techniques

Offered: Fall

Prerequisite: FW(BIOL) 3114 or permission of instructor.

Instruction in current wildlife techniques including habitat evaluation and manipulation, estimation of wildlife abundance, capturing and marking, identification, aging, and scientific writing. Course is structured around a research project that requires use of popular wildlife techniques.

Lecture one hour, laboratory four hours. \$20 laboratory fee.

FW 4014: Forest Ecology and Management

Offered: Fall

Prerequisite: FW(BIOL) 3114

An in-depth coverage of ecological interactions in forested ecosystems. Lectures cover biotic and abiotic factors that influence development and species compositions of forest stands. Wildlife habitat relationships in forested ecosystems will also be discussed. Laboratories will familiarize students with field techniques and management activities important in the major forest types of Arkansas.

Lecture two hours, lab four hours. \$20 laboratory fee.

FW 4024: Limnology

Cross-listed: BIOL 4024

Offered: Spring

Prerequisite: FW(BIOL) 3114.

A study of physical and chemical processes in fresh water and their effects on organisms in lakes and streams. Laboratory sessions and field trips demonstrate limnological instrumentation and methodology.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

FW 4034: Geographic Information Systems in Natural Resources

Offered: Spring

Prerequisites: a course in GIS or permission of instructor

Use of GIS technology in wildlife and fisheries management and research. Emphasis placed on creation, maintenance, and analysis of spatially explicit data.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

FW 4043: Fisheries Techniques

Offered: Spring

Prerequisites: FW(BIOL) 3114 and a computer science elective, or permission of instructor.

The techniques and practices of warmwater fish management. Major emphasis will be placed on survey techniques, data collection, and data analysis techniques.

Lecture one hour, laboratory four hours. \$20 laboratory fee.

FW 4054: Waterfowl Ecology and Management

Offered: Spring

Prerequisite: BIOL/FW 3114.

Ecology and management of North American waterfowl and their habitats. Laboratory exercises will focus on identification, life histories, sex and age determination, and abundance survey methods. Lectures and discussions will cover behavioral ecology, reproductive ecology, winter ecology, harvest management, and habitat management and conservation.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

FW 4064: Wetland Ecology and Management

Offered: Fall of even years

Prerequisites: A course in ecology or permission of instructor

An in-depth coverage of wetlands including occurrence, morphology, hydrology, soils, ecology, and regulation. The types of wetlands and their functions are discussed, as are local, state and federal regulations pertaining to their use, management and protection. Laboratory focuses on identification of common wetland vegetation, delineation of wetland boundaries, as well as field techniques and management activities commonly used in Arkansas wetlands.

Lecture two hours, laboratory four hours. \$20 laboratory fee

FW 4083: Principles of Fisheries Management

Offered: Fall

Prerequisites: FW(BIOL) 3114, one semester of statistics, and one semester of calculus, or permission of instructor.

The principles and theory of warmwater fish management with major emphasis on the human dimension in fisheries management, fishery assessment, population dynamics, and common management practices.

FW 4103: Human Dimensions of Fisheries and Wildlife Management

Offered: Spring

Prerequisite: BIOL/FW 3114 (Ecology) or permission of instructor.

Exploration of the complex interactions of social, political, institutional, economic and ecological processes that contribute to natural resource use and management. The primary focus is on interactions and conflict resolution among various stakeholders, resource management agencies, and wildlife and fisheries resources. Topics covered include public attitudes and expectations; agency structure and policy; values of fishes, wildlife; and public relations.

FW 4112: Internship

Prerequisite: Consent of program director.

A supervised, practical experience providing FW majors with a hands-on, professional experience related to their career interests. Approximately 200 clock hours, a proposal, a log book, and a written report are required.

Note: A maximum of four credit hours is allowed for FW internship.

FW 4114: Internship

Prerequisite: Consent of program director.

A supervised, practical experience providing FW majors with a hands-on, professional experience related to their career interests. Approximately 400 clock hours, a proposal, a log book, and a written and oral report are required.

Note: A maximum of four credit hours is allowed for FW internship.

FW 4163: Biodiversity and Conservation Biology

Cross-listed: BIOL 4163

Offered: Fall of even years

Prerequisite: a course in ecology or permission of instructor

The concepts of, processes that produce, and factors that threaten biological diversity are introduced and examined. Further emphasis is placed on unique problems associated with small population size, management of endangered species and practical applications of conservation biology.

FW 4881,4882,4883,4884: Advanced Topics

Offered: On demand

Prerequisite: Consent of instructor. Open to junior and senior students only.

Offers special instruction on fisheries and wildlife topics that are not otherwise covered in the curriculum. The primary focus of the course will vary from offering to offering, thus the course may be taken more than once.

\$10 laboratory fee for four credit hour class only.

FW 4951,4952,4953,4954: Undergraduate Research in Fisheries and Wildlife

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

Geography Course Descriptions

GEOG 2013: Regional Geography of the World

A survey of major regions with particular emphasis upon Europe, the Commonwealth of Independent States, the Orient, the Mid East, Africa, and Latin America.

GEOG 2023: Human Geography

A systematic treatment of the major concepts of human geography and their application to modern problems. consideration of population, cultural patterns and processes, political organization of space, agricultural and rural land use, industrialization and economic development, and cities and urban land use.

GEOG 2833: Introduction to Geographic Information Systems

Cross-listed: FW 2833

An introductory course dealing with computer organized spatial and attribute data. GIS is a system of specialized computer programs with the capability to manipulate and analyze data for problem solving.

GEOG 3033: Physical Geography

A description and interpretation of the physical features of the surface zone of the earth and how man interrelates with this complex natural environment.

GEOG 3113: Geography of the United States and Canada

A regional study emphasizing the physical and cultural aspects of Anglo America.

GEOG 3303: Geography of Latin America

A regional study of the lands and people of Latin America and their interrelationships. Particular attention will be given to Mexico, Brazil, and Argentina.

GEOG 3413: Geography of Europe

A regional study of the physical and cultural aspects of Europe (including the C.I.S.) and their interrelationships.

GEOG 3703: Geography of Asia

A regional study of the lands and peoples of Asia and their interrelationships with particular emphasis on India, China, and Japan.

GEOG 3803: Historical Geography

A study of how space and place is transformed through time. Through a focus on the geographies of the past throughout North America, this course examines the ways humans interact with the environment to create a material-cultural landscape.

GEOG 4023: Economic Geography

A study of the resources at man's disposal and his economic activities in utilizing these resources. Special attention is given to industrial and agricultural resources of leading nations.

Note: May not be repeated for credit as GEOG 5023 or equivalent.

GEOG 4203: Place and Collective Memory

An examination of the way society remembers the past and portrays this collective memory through socially constructed monuments.

GEOG 4803: Seminar in Global Studies

A seminar on current world geographic influences that affect the nations of the world, such as demographics, complex environmental and physical changes, and political and economic relationships.

GEOG 4951,4952,4953,4954: Undergraduate Research in Geography

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

GEOG 4983: Geography Seminar:

A directed seminar in an area of cultural geography. The specific focus will depend upon research under way, community or student need, and the unique educational opportunity available.

May be repeated for credit if course content changes.
(for a maximum of six hours)

GEOG 4993: Special Problems in Geography

Admission requires consent of department head.

Geology Course Descriptions

GEOL 1004: Essentials of Earth Science

An introduction to the fundamental topics of earth science including physical and historical geology, oceanography, and meteorology. Laboratory exercises include the study of minerals, rocks, fossils, topographic and geologic maps, and oceanographic and meteorological phenomena. Laboratory work will stress the use of the scientific method of problem solving. This course is designed as a general education science requirement and for prospective early childhood and middle level school teachers.

Note: Duplicate credit for GEOL 1004 and GEOL 1014 will not be allowed.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

GEOL 1014: Physical Geology

A survey of the earth's features and forces which modify its surface and interior. Laboratory exercises include the study of minerals, rocks, and landforms through the use of topographic maps and aerial photography.

Note: Duplicate credit for GEOL 1014 and GEOL 1004 will not be allowed.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

GEOL 2001,3001,4001: Seminar

Prerequisites: GEOL 1014 and 2001

Participants will prepare oral and written reports and participate in discussions of the reports. Topics for the seminar will be determined by the instructors but will be subjects which are beyond the scope of other geology courses.

GEOL 2024: Historical Geology

Prerequisite: GEOL 1014

A survey of the physical and biological history of the earth. Laboratory exercises include the study of fossils, geologic maps, and cross sections.

Lecture three hours, laboratory three hours. \$20 laboratory fee.

GEOL 2111: Environmental Seminar

Cross-listed: BIOL 2111, CHEM 2111

A seminar for students pursuing the environmental option of geology, biology, or chemistry and other students interested in environmental sciences.

GEOL 3004: Structural Geology

Prerequisites: GEOL 1014, 2024, and MATH 1203 or 1914

A study and analysis of the structural features of the earth's crust.

Lecture three hours, laboratory two hours. \$20 laboratory fee.

GEOL 3014: Mineralogy

Prerequisites: GEOL 1014, 2024; CHEM 1114 or 2124

A study of crystallography, physical and chemical properties, origin, occurrence, and structure theory of minerals.

Lecture two hours, laboratory four hours. \$20 laboratory fee.

GEOL 3023: Geologic Field Techniques

Prerequisites: GEOL 1014, 2024 and 3004

Interpretation of aerial photographs; mensuration techniques using the Brunton compass, hand level, and Jacob's staff, measurement and description of stratigraphic sections; construction of and geologic maps; collecting, sampling, and collation procedures.

Lecture laboratory four hours. \$20 laboratory fee.

GEOL 3044: Geomorphology

Prerequisites: GEOL 1014, 2024, 3004, and 3164

A study of land forms and the processes which shape the earth's surface. Special emphasis will be placed on slope forming and fluvial processes.

Lecture three hours, laboratory three hours. \$20 laboratory fee.

GEOL 3053: Geology of Energy and Metallic Resources

Prerequisites: GEOL 1014, 3014, and 3164

A study of the principal earth materials essential to local and national economies. Location, genesis, methods of extraction, and primary utilization and conservation are emphasized.

GEOL 3083: Hydrogeology

Prerequisites: MATH 1113 and GEOL 1014 or permission of the instructor.

The earth's hydrologic system is studied in terms of both empirical and quantitative aspects of the steady-state condition of groundwater and its interaction with surface water, as well as transient behavior from the influence of wells. Basic water chemistry is also covered along with transport and fate of pollutants in groundwater.

GEOL 3111: Environmental Seminar

Cross-listed: BIOL 3111, CHEM 3111

A seminar for students pursuing the environmental option of geology, biology, or chemistry and other students interested in environmental sciences.

GEOL 3124: Invertebrate Paleontology

Prerequisite: GEOL 2024

A systematic study of invertebrate fossils and their geologic significance.

Lecture laboratory six hours. \$20 laboratory fee.

GEOL 3153: Environmental Geology

Prerequisite: GEOL 1014

A study of the geological factors which influence the pollution of land, water, and biological resources; the role of rock and soil in the geobiological community; hydrology; land sliding and faulting in the human environment, natural resource problems; urban and land use planning based on geological data.

GEOL 3164: Petrology

Prerequisite: GEOL 3014

A study of the classification, origin, geologic occurrence, physical and chemical properties of igneous, sedimentary, and metamorphic rocks.

Lecture three hours, laboratory three hours. \$20 laboratory fee.

GEOL 3174: Computer Applications in Geology

Participants will focus on mastering common geotechnical, oil and gas, and Geographic Information Systems (GIS) software utilized throughout the geologic profession. Course will include techniques on GIS analysis; generating stratigraphic sections, cross-sections, structure contours, fence diagrams, rose diagrams, and other geologic documents; geologic data management.

\$20 course fee.

GEOL 4006: Field Geology

Offered: Each summer by arrangement

Prerequisites: GEOL 1014, 2024, 3004, 3014, 3023, 3124, and 3164

A six week summer course of instruction in the use of geologic mapping instruments, interpretation of aerial photographs and their use in the construction of geologic maps, development of techniques necessary in geological field work, recognition and interpretation of geologic phenomena, and potentially in environmental evaluation. The course is offered through arrangements with various universities. Students have the option of picking the field camp that best meets their interest from a list of pre-approved camps.

Note: Field camp expenses will vary, but the average cost for room/board and tuition is \$3,000.

\$10 laboratory fee.

GEOL 4013: Optical Mineralogy

Prerequisites: PHYS 2024, GEOL 3014, 3164

A study of minerals in thin sections with the petrographic microscope.

Lecture laboratory four hours. \$10 laboratory fee.

GEOL 4023: Principles of Stratigraphy and Sedimentation

Prerequisites: GEOL 3124 and 3164

A study of sedimentary rocks and their stratigraphic relationships.

GEOL 4034: Subsurface Geology

Prerequisites: GEOL 3004, 3164, 4023, MATH 1113, PHYS 2014, 2024

A study of analytic procedures in selected topics in geophysics, well logging, and subsurface geological relationships.

Lecture three hours, laboratory two hours. \$10 laboratory fee.

GEOL 4111: Environmental Seminar

Cross-listed: BIOL 4111, CHEM 4111

A seminar for students pursuing the environmental option of geology, biology, or chemistry and other students interested in environmental sciences.

GEOL 4951,4952,4953,4954: Undergraduate Research in Geology

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study.

Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

GEOL 4991,4992: Special Problems in Geology

Open to geology majors with the approval of the department head.

German Course Descriptions

GER 1014: Beginning German I

Introduction to conversation, basic grammar, reading, and writing.

Note: Advanced placement and credit by examination are available to students who have previously studied German.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

GER 1024: Beginning German II

Prerequisite: GER 1014 or equivalent.

Continued instruction in grammar and fundamental language skills.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

GER 2014: Intermediate German I

Prerequisite: GER 1024 or equivalent

Instruction designed to develop greater facility in fundamental skills and more extensive knowledge of grammar.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

GER 2024: Intermediate German II

Prerequisite: GER 2014 or equivalent

Instruction intended to complete the survey of the basic grammar of the language and to provide the mastery of fundamental skills essential for enrollment in upper level German courses.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

GER 3003: Conversation and Composition I

Prerequisite: GER 2024 or permission of instructor

Further study of German based on analysis of short texts (newspaper articles, short stories, plays, poetry). Students are expected to use German in oral and written expression.

GER 3013: Conversation and Composition II

Prerequisite: GER 3003 or permission of instructor.

Continuation of GER 3003.

GER 3023: Introduction to Linguistics

Cross-listed: ENGL 3023, FR 3023, SPAN 3023, SPH 3023

Prerequisites: ENGL 1023 or equivalent and GER 2024 or equivalent

A study of basic concepts in language, comparative characteristics of different languages, and the principles of linguistic investigation.

GER 3113: Culture and Civilization

Prerequisite: GER 3013 or permission of instructor

Study of the geography, history, arts, institutions, customs, and contemporary life of the German speaking peoples.

GER 3143: Study Abroad

Prerequisites: Enrollment in a Tech-sanctioned study program in a German-speaking country, completion of GER 2024 or equivalent, and permission of the Study Abroad supervisor.

Study of the contemporary language and culture in a German speaking country.

Note: May substitute for GER 3003 or GER 3013, depending on the student's proficiency level.

GER 3163: Community Internship Experience

Prerequisite: completion of GER 2024 or equivalent

Study of contemporary language and culture in a German speaking community or setting.

Note: May be taken instead of GER 3143 to meet degree requirements.

GER 3213: Advanced Grammar and Usage

Prerequisite: GER 3013 or permission of instructor.

The course is designed to build writing competence and strengthen grammatical competence. Grammar will be studied within the context of writing assignments. The course will deepen the knowledge of the language through the usage of applied linguistics, syntax, grammar, and semantics.

GER 3223: Short Story

Prerequisite: GER 3013 or permission of instructor.

An introductory study of German short stories. Students will analyze short texts to strengthen their reading and text interpretation skills and to increase their knowledge of vocabulary.

GER 4003: Oral Communication

Prerequisite: GER 3013 or permission of instructor.

This course is designed to strengthen students' oral communication skills by enabling them to converse easily with native speakers on everyday topics in preparation for the oral proficiency interview (OPI).

\$134 interview fee.

GER 4213: German Literature to 1832

Prerequisite: GER 3223 or permission of instructor.

A survey of major writers and representative works from early Middle Ages through the Age of Goethe.

GER 4223: German Literature since 1832

Prerequisite: GER 3223 or permission of instructor.

A survey of major writers and representative works since the Age of Goethe.

GER 4283: Seminar in German

Prerequisite: GER 3013 or permission of instructor.

Course content will vary. May be repeated for credit if course content varies.

GER 4701: Foreign Language Pedagogy

Cross-listed: FR 4701, SPAN 4701

Prerequisites: Admission to student teaching phase of the teacher education program.

Co-requisite: SEED 4909

Intensive on-campus exploration of the principles of curriculum construction, applied methods, professional collaboration, and evaluation as related to teaching French, German, or Spanish, followed by professional internship application of these principles under the supervision of a qualified departmental instructor.

GER 4703: Foreign Language Teaching Methods

Cross-listed: FR 4073, SPAN 4703

Prerequisites: GER 3013 and GER 3113 or equivalent; admission to Stage II of the Secondary Education sequence or equivalent.

Survey of instructional methods with discussions and demonstrations of practical techniques for teaching of foreign language.

GER 4901,4902,4903: Foreign Language Internship

Prerequisites: Advanced foreign language proficiency; permission of the instructor and the department head.

The Foreign Language Internship is intended primarily for majors in foreign languages or international studies. It is designed to provide outstanding students the opportunity to perfect their language proficiency and to acquire specific training and skills overseas. The overseas sponsor and the foreign language instructor of record will supervise the intern. Performance evaluations and a research paper will be required.

GER 4951,4952,4953,4954: Undergraduate Research in German

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

GER 4991,4992,4993,4994: Special Problems in German

Prerequisites: GER 2024 and consent of the instructor and the department head.

Designed to provide advanced students with a course of study in an area not covered by departmental course offerings.

Greek Course Descriptions

GRK 1013: Beginning Classical Greek I

Instruction in the fundamentals necessary to read and write classical Greek.

GRK 1023: Beginning Classical Greek II

A continuation of GRK 1013.

Hospitality Administration Course Descriptions

HA 1013: Sanitation Safety

Cross-listed: CUL 1013

This course provides knowledge of food safety, potable water, bioterrorism and risk management particularly in the areas of food service and storage. The student will gain knowledge on safe food handling from; receiving and storage through preparing and serving food. This course will also analyze ethical considerations with regards to food and water safety and food service. ServSafe certification from the NRAEF will result upon successful completion of standardized exam.

HA 1043: Introduction to Hospitality Management

The history and development of the hospitality industry which comprises food, lodging, and tourism management, an introduction to management principles and concepts used in the service industry, and career opportunities in the field.

HA 1063: Hospitality Technology

Co-requisite: COMS 1003

This course will focus on the fundamental features and components of computerized hotel, restaurant, and tourism management systems. The selection and implementation of technology applications to specific hotel, restaurant, and tourism management systems will be presented and discussed.

HA 1923: Introduction to Food and Beverage Management

Cross-listed: CUL 1923

Co-requisites: CUL (HA) 1013.

This course introduces the practical skills and knowledge necessary for the effective management of food and beverage operations encompassing the historical timeline of food and beverage, non-alcoholic beverages, the identification of meats, fishes, fruits, vegetables, dairy products and proteins. This course also introduces the front-of-the-house essentials for food and beverage operations encompassing glassware, service ware and other front-of-the-house equipment.

HA 2003: Cost Controls

Cross-listed: CUL 2003

This course will study the role of cost control management on overall profitability of hospitality entities. Basic principles of purchasing food, beverage, and non-food items with regards to maintaining an operation's competitive advantage within the industry will be covered.

HA 2023: Hospitality Supervision and Leadership

Cross-listed: CUL 2023

This course provides comprehensive coverage of the principles, theories, human-relations techniques, leadership styles, and decision-making skills that are required to manage a team to profitable results in the food service and lodging industries.

HA 2043: Front Office Management

A survey of the lodging industry to include its history, growth and development, and future direction. Emphasis on front office procedures and interpersonal dynamics from reservations through the night audit.

HA 2053: Work Experience

Cross-listed: CUL 2053

Prerequisites: HA/CUL major or HA minor; sophomore standing or permission of instructor.

Placement in selected hospitality settings as a student worker under professional guidance of both agency and faculty.

Students are given the opportunity to take part in meaningful work experiences in actual work situations and managerial observation.

Minimum of 200 clock hours of work experience.

HA 2063: Guest Service Management

Cross-listed: CUL 2063

Prerequisite HA 1063

The analysis and development of guest services management skills including leadership behavior, motivation, communication, training, staffing, etiquette, and professional service.

Lecture two hours, lab minimum of three hours depending on the special event requirements. \$100 lab fee which helps to cover your meal costs and/or travel.

HA 2133: Introduction to Travel and Tourism

Cross-listed: RP 2133

The introduction to travel and tourism, its components and relationship to the recreation and hospitality industry. The course will explore the current and future trends in travel and tourism and the effects on the economy, as well as the social and political impacts of travel and tourism.

HA 2813: Basic Human Nutrition in Hospitality Administration

Cross-listed: CUL 2813

Study of the relationship between nutrition and health as a basis for food choices of all ages; the application of nutrient functions in human life processes and cycles; how balanced eating promotes healthy lifestyles. Current concepts and controversies are highlighted.

HA 2913: Principles of Food Preparations

Cross-listed: CUL 2913

Prerequisite: CUL (HA) 1013

Co-requisites: CUL (HA) 2813 and CHEM 1114

Upon completion of this course the student should be able to demonstrate skills in basic cooking techniques and methods, recipe conversion, and professional food preparation and handling. Additionally, the student should be able to recognize and safely operate common foodservice equipment used in commercial kitchens and demonstrate proficient culinary knife skills.

This course is 2 hours lecture and a 4 hour lab depending upon special event requirement(s). \$100 lab fee required. Additional costs: professional uniforms and knives are required and are to be considered additional out-of-pocket expenses to the student.

HA 3133: Tourism Planning

Cross-listed: RP 3133

An examination of the tourism planning process and techniques. Topics include tourism as a system, levels of planning, environmental, cultural and economic components, attractions, transportation, infrastructure and marketing.

HA 3143: Executive Housekeeping

Prerequisite: HA 2043

This course evaluates the role of housekeeping, the planning and organization of various organizing tasks, and the importance of maintaining and training quality housekeeping staff. This course will evaluate managing inventories, controlling expenses and monitoring safety and security functions.

This class is 2 hours lecture and 1 hour lab and will require students to have a minimum of 15 contact hours throughout the semester under supervision in a hotel housekeeping environment.

HA 4001: Internship Preparation

Cross-listed: RP 4001

Prerequisites: PRHA major, senior standing, and completion of RP 3043 or HA 2053 or permission of department head.

Preparation for the internship experience. This course is graded Pass/Fail.

HA 4013: Hospitality Marketing and Sales

The organization of the marketing function and its role and responsibility in developing an integrated marketing program. Special attention to convention sales and management, and the role of travel related services to the marketing function.

HA 4023: Hospitality Facilities Management and Design

Prerequisites: Junior standing plus nine hours of HA courses or by permission.

The fundamental principles of facilities planning, facilities management, and maintenance for all segments of the hospitality industry. Application principles in the preparation of a typical layout and design.

HA 4033: Legal Aspects of Hospitality Administration

Prerequisites: Senior standing or permission of instructor.

Examination of the laws regulating the hospitality industry. Development of an appreciation of the interrelationship between the law and the hospitality industry. Exploration of how legal principles apply in the global environment of the hospitality industry.

HA 4053: Meetings and Conventions Management

Prerequisites: Junior standing plus nine hours of HA courses or by permission.

Planning and managing meetings and conventions in the hospitality industry.

HA 4063: Beverage Management

Prerequisites: 21 years of age, HA major or permission of the instructor.

Selection, storage, and service of beverages with emphasis on controls, merchandising, pricing, history, social and legal concerns. Successful completion of standardized exam results in Serv Safe Alcohol certification from the National Restaurant Association Educational Foundation.

Lecture two hours, lab two hours. \$50.00 Lab fee required.

HA 4073: Hospitality Financial Analysis

Prerequisites: ACCT 2003 and 2013

Accounting principles and procedures for the Hospitality Industry as an aid in management planning, decision making and control, financial statements, statement analysis, flow of funds, cash analysis, accounting concepts, cost accounting budgets, capital expenditures, and pricing decisions.

HA 4093: Resort Management

Cross-listed: RP 4093

Prerequisites: Junior standing and nine hours of RP or HA courses or by permission.

An in-depth study of resorts with respect to their planning, development, organization, management, marketing, visitor characteristics, and environmental consequences.

HA 4113: Personnel Management in Parks, Recreation, and Hospitality Administration

Cross-listed: RP 4113

Prerequisites: Junior standing and nine hours of RP or HA courses.

An overview of personnel considerations in various Recreation and Park agencies and the Hospitality industry. Laws, legal issues, structure, staffing, motivation, training, conduct, policies and other aspects of agency/industry personnel relations will be examined using case-studies, as well as other methods.

HA 4116: Internship

Cross-listed: RP 4116

Prerequisites: Parks, Recreation, and Hospitality Administration major; senior standing; current certifications in CPR; Standard and Advanced First Aid; consent of department head and completion of all other courses applicable to degree.

Placement in selected agency settings as a student intern under professional guidance of both agency supervisor and faculty. Emphasis will be placed on application of classroom theory to agency requirements which fulfill student's individual career interest. No prior experience credit will be granted. Minimum of 600 clock hours during a minimum of 15 weeks of supervised internship is required. Student cannot document more than 40 hours of work experience per week. A written report is required within two weeks of internship completion.

\$100 supervisor travel fee required.

HA 4203: Hospitality Operational Problem Solving

Prerequisites: Senior standing, MGMT 3003

Solving practical hospitality and tourism management problems through planning, establishment of policy, analysis and application of qualitative and/or quantitative methods.

HA 4243: Advanced Lodging Operations Management

Prerequisites: HA 3143 and HA 4113

An in-depth study of hotel and lodging operations management. The analysis of competitive strategies, leadership styles, teamwork, technology and creativity in the hotel and lodging industry.

HA 4253: Club Management

Prerequisites: Junior standing and nine hours of HA courses, or permission of instructor.

This course analyzes the organizational diversity of clubs exploring governance, management and operations of profit and non-profit clubs.

HA 4951,4952,4953,4954: Undergraduate Research in Hospitality Administration

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

HA 4983: Advanced Food Production

Prerequisite: HA 2913

Upon completion of this course the student should be able to demonstrate advanced level cooking techniques and methods, recipe conversion, and professional food preparation and handling as well as managerial competencies.

This course is one hour lecture and a minimum five hour lab depending on the event requirements. Advanced preparation may be required the day before or the day of an event. \$100 lab fee required which helps to cover your meal costs.

HA 4991,4992,4993: Special Problems and Topics

Offered: On demand

Investigative studies and special problems and topics related to hospitality administration.

Health Information Management Course Descriptions

HIM 1001: Health Information Management Orientation

Offered: Fall

An introductory course with emphasis on the basics of health information management as related to career choices, giving the student a better understanding of opportunities in the field. The course will also focus on helping the student develop good study skills, career goals, and understand policies and information needed for a successful college career.

HIM 2033: Coding Principles Medical Office

Prerequisites: AHS 2013, 1023, BIOL 2004, or permission of instructor.

A study of medical coding using ICD-9-CM and CPT codes in the medical office. Students will be taught to evaluate patients' medical records to correctly assign both diagnostic and procedural codes required for healthcare reimbursement in the medical office setting.

HIM 3023: Introduction to Health Information Management

Offered: Fall

Prerequisite: Admission to the HIM Program.

A study of the history of health records, professional ethics, the functions of a health information department, retention of records, medical forms, health information practices, and responsibilities to healthcare administration, medical staff, and other medical professionals.

HIM 3033: Basic Coding Principles

Offered: Fall

Prerequisites: BIOL 2004, AHS 2013, or permission of instructor.

An in depth study of the principles of disease and procedural coding using the ICD 9 CM classification system. Areas emphasized during the course include: the purpose of coding, the definition of key terms, accurate application of coding principles, methods to assure quality data, and a review of the impact of prospective reimbursement on the function of coding.

HIM 3043: Advanced Concepts in Health Information

Offered: Fall

Prerequisite: HIM 3023

A study of such advanced concepts as quality improvement, utilization review, licensure and accreditation standards, medical staff, and interdisciplinary relationships.

HIM 3132: Health Data and Statistics

Offered: Spring

Prerequisite: HIM 3023 or permission of instructor.

A study of the methods of recording diagnoses and operations by recognized systems of disease, procedural and pathological nomenclatures and classification systems, manual and computerized systems of indexing and abstracting, research and statistical techniques, and health information data handling.

HIM 3133: Alternative Health Records

Offered: Spring

Prerequisite: HIM 3023

A study of health record requirements in non- traditional settings such as cancer programs, ambulatory care facilities, mental health centers, and long term care facilities.

HIM 3153: Current Issues in Health Information Management

Prerequisite: HIM 3023

An in-depth study of the latest issues affecting the field of health information management. Specific topics will vary to reflect emerging technology including such topics as eHIM, electronic health records, personal health records and HIPAA privacy concepts.

HIM 4034: Advanced Coding Principles

Offered: Spring

Prerequisite: HIM 3033

A continuation of HIM 3033, dealing with advanced principles of coding using ICD-9-CM and CPT-4. Experience with coding of health records as well as DRG grouping and the administrative aspects of coding will be emphasized.

Note: May not be taken for credit after completion of HIM 4032.

\$10 lab fee.

HIM 4063: Organization and Administration

Offered: Fall

Prerequisites: HIM 3023 and senior standing.

A study of the application of the principles of organization, administration, supervision, human relations, work methods, and organizational patterns in the health information department. The duties and relationships of the health information manager and the social forces affecting the department and current trends in hospital and medical care are investigated.

HIM 4073: Legal Concepts for the Health Fields

Offered: Spring

Prerequisites: HIM 3023 and senior standing, or permission of instructor.

A study of the principles of law as applied to the health field. Consideration is given to the importance of health records as legal documents as well as a general introduction to the law, administration of the law, legal aspects of healthcare facility and medical staff organization, release of information, confidential communication and consents and authorizations.

HIM 4083: Health Organization Trends

Offered: Spring

Prerequisites: HIM 3023 and senior standing, or permission of instructor.

A comprehensive review of the trends and changes in the healthcare field. Historical aspects of healthcare organization and governmental health agencies are reviewed. Emphasis is placed on current events in the healthcare arena.

HIM 4092: Research in Health Information Management

Offered: Spring

Prerequisites: HIM 3023 and senior standing.

A study of the specific research methodology used in a health information management setting. Emphasis will be given to hands on performance of research in conjunction with area health care facilities and agencies. Formal presentation of research will also be a component of the course.

HIM 4153: Principles of Disease

Offered: Spring

Prerequisites: AHS 2013, BIOL 2004, and permission of instructor.

An introduction to medical science, including the etiology, treatment and prognosis of various diseases. Emphasis is given to the medical information as viewed from the standpoint of a health information management professional.

HIM 4182: Professional Practice Experience I

Offered: Fall

Prerequisites: HIM 3023, HIM 3043, HIM 3133, HIM 3132 and HIM 3033

Active participation within an actual health information management department providing a supervised learning experience through which the student develops insight, understanding, and skills in health information procedures, accepts responsibilities and recognizes the need for confidentiality.

\$10 laboratory fee.

HIM 4292: Professional Practice Experience II

Offered: Spring

Prerequisite: HIM 4182

A supervised learning experience through which the student learns to recognize the contribution of and learns to work with other professional and non professional personnel, learns to recognize and deal with personnel problems in a health information department.

\$10 laboratory fee.

HIM 4892: Seminar in Health Information

Offered: First summer term

Co-requisite: HIM 4895

A seminar, utilizing the case method approach, on problem situations encountered in the field of health information management. This course includes discussion of problems that arise during their affiliation experience.

HIM 4895: Affiliation

Offered: First summer term

Prerequisites: Successful completion of all required HIM courses except HIM 4892.

Provides the student with a four-week management experience in the activities and responsibilities of the health information management professional. Augments theoretical instruction received during previous courses. Student is actively involved in the management process while under direct supervision of a qualified health information management professional.

Note: Although every effort is made to secure a convenient locale, the student must assume full financial responsibility for this assignment.

\$10 laboratory fee.

HIM 4951,4952,4953,4954: Undergraduate Research in Health Information Management

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

HIM 4983: Systems Analysis for Health Information Management

Offered: Fall

Prerequisites: COMS 1003, COMS 2003, HIM 3023, and senior standing.

A course designed to provide a detailed study of the relationship between health information management departments and computerized information systems. Students will learn from a variety of projects related directly to the clinical setting.

HIM 4991,4992,4993,4994: Special Problems in Health Information Management

Open to health information management senior students only. The problems will vary to fit the needs of the student and reflect the continual changes in the allied health field.

History Course Descriptions

HIST 1503: World Civilization I

The history of humanity from prehistoric times to the sixteenth century.

HIST 1513: World Civilization II

The history of humanity from the sixteenth century to the present.

HIST 1543: Honors World Civilizations I

Prerequisite: Admission to University Honors or permission of Honors Director.

The history of humanity from prehistoric times to the sixteenth century with an emphasis on the critical analysis of primary source documents and the methods by which historians and other scholars interpret historical evidence.

HIST 1903: Survey of American History

Survey of American History. An overview of American history from the pre-colonial period to the present.

Note: May not be taken for credit after completion of HIST 2003 or 2013.

HIST 2003: United States History I

The study of the development of the American nation to the Civil War and Reconstruction Era.

HIST 2013: United States History II

The study of the development of the American nation since the Civil War and Reconstruction Era.

HIST 2043: Honors U.S. History I

Prerequisite: Admission to University Honors or permission of Honors Director.

History 2043 concentrates on the development of the American nation with emphasis upon the winning of independence, the origin of the Constitution, the rise of Jeffersonian Democracy, European influence up America, Jacksonian Democracy, westward expansion, the emergence of sectionalism, and the Civil War.

HIST 2153: Introduction to Arkansas History

An introductory course on the history of Arkansas. Lectures, discussions, and applied activities will be central to this course.

Note: This course is a professional education requirement for Early Childhood and Middle Level Education majors, and may not be counted toward the History and Political Science nor the History and Political Science Education degree.

Note: Students may not take this course after completion of HIST 4153.

HIST 2203: Introduction to Public History

An introduction to the theory and disciplines of public history, including museum studies, historic preservation, archive and manuscript management, and historical editing. The course also explores the current theoretical and practical issues confronting public historians.

HIST 2513: Sources and Methods in History

This course is designed as an introduction to the field of historical research. This course introduces techniques and methods of historical research, basic historiography, bibliographical aids, and the study and writing of history. It is a hands-on course where students will use the skills learned to evaluate social science research

HIST 3013: Colonial America

The European background, the settlement of British colonies, the development of provincial institutions, and the emergence of an American civilization in the seventeenth and eighteenth centuries.

HIST 3023: The Era of the American Revolution

The deterioration of empire relationships from 1763 to 1776, with an examination of the causes and consequences of the American Revolution and the post war problems leading to the establishment of a new government under the Constitution in 1789.

HIST 3033: The Early American Republic

The social, cultural, economic, and political climate in which Jeffersonian Jacksonian democracy developed.

HIST 3043: Civil War and Reconstruction

The social, political, economic, and intellectual backgrounds of the war; the military operations; analysis of Reconstruction.

HIST 3063: The Gilded Age/Progressive Era, 1877-1914

Explores the major issues associated with Gilded Age America (immigration, industrialization, urbanization, imperialism, rise of organized labor) and examines the origins, goals, and legacies of the Populist and Progressive reform movements.

Note: May not be taken for credit after completion of HIST 3053.

HIST 3073: The United States: 1914-1945

Examines the American entry and contribution in World War One; the post-war settlement; the various social, economic, and political trends of the 1920s; the Great Depression; the New Deal; American foreign policy in the inter-war era; and the American role in World War Two, and its effects on American society and culture.

HIST 3083: The United States: 1945-Present

Explores the origins of and American responses to the Cold War, the rise of various reform movements in the 1950s-60s, the New Frontier and Great Society programs, the Vietnam War, and the rise of the New Right.

Note: May not be taken for credit after completion of HIST 4003.

HIST 3103: The Old South

A survey of the political, social, and economic development of the American South before the Civil War.

HIST 3123: The New South

Prerequisite: HIST 2013 or permission of department head.

A survey of the political, social, and economic development of the American South from the end of the Civil War to the present.

HIST 3223: Local and Oral History

The course has two main, inter-related themes, local history and oral history. This course examines the nature and practice of local history and explores the various methods and approaches central to local history research. In addition, this course introduces students to the literature and theory of oral history and trains them in related fieldwork methodologies.

HIST 3243: Archive and Manuscript Management

An introduction to the administration of archival and manuscript collections in various types of institutions. This course explores the basic theoretical principles and archival practices of appraisal, acquisition, accessioning, arrangement, description, preservation, and user services. Topics will include: records management programs, collecting archives

programs, legal and ethical issues, public programming and advocacy, and the impact of the new information technologies for preservation and access.

HIST 3281: Grant Writing for Historians

An introductory course designed to provide students with the basic tools necessary to successfully compete for external grant funds. The focus of the course is public history grants, although the skills and knowledge presented will also benefit historians who propose professional development proposals on research and study plans.

HIST 3283: Historical Editing

An introduction to historical editing in both print and electronic applications. Students will gain practical experience by editing documents and surveying the relevant literature.

HIST 3291: Practicum in Public History

Practicum facilitating the integration, synthesis, and application of theories, concepts, and skills associated with public history.

Note: Course requires 75 clock hours of supervision in the museum.

HIST 3313: Colonial Latin America

A survey of the political, economic, social and cultural aspects of Latin America to 1825. Emphasis is on cross-cultural accommodation and the role of indigenous, African, and European cultures in shaping Latin American development.

HIST 3323: Modern Latin America

A survey of the political, economic, social and cultural aspects of Latin America since 1825. Emphasis is on cultural values and structures from the colonial period, continuing patterns of authoritarianism, the struggle to establish democratic institutions, and Latin America's role in world affairs.

HIST 3413: History of Classical Greece and Rome

The origins and development of Classical civilization in ancient Greece, the rise of the Roman Republic, and the ascendancy and decline of the Roman Empire.

HIST 3423: History of the Middle Ages, 300-1300

Decline of the ancient Roman civilization; rise, ascendancy, and decline of medieval civilization; emphasis upon the Christian church and the rise of national monarchies.

HIST 3433: The Renaissance and European Expansion, 1300-1550

Fuelled by a growing urban economy and despite the setbacks of the Black Death, Europeans during the Renaissance revived and adapted models of classical learning, created new forms of artistic and vernacular expression, forged national identities, opened up new trade routes, and encountered a New World.

HIST 3443: The Reformation and Early Modern Europe, 1500-1688

A study of the social, political, intellectual and cultural impact of the Protestant Reformation, the Roman Catholic response, the sixteenth and seventeenth-century Wars of Religion, the development of confessional cultures, and the continued rise of the European nation-state in both its absolutist and constitutional forms.

HIST 3463: The Enlightenment, French Revolution, and Napoleonic Eras

This upper-division course will address the intellectual, social, and political events of the turbulent eighteenth century in Europe, a period known for the Enlightenment, as well as for the French Revolution and the rise and fall of Napoleon's Empire. Historians often argue that this period ushered in many of the hallmarks of the modern world, including nationalism, open class conflict, and popular democracy. The intent of this course is to examine the period in the context of its long-lasting influence upon world events.

HIST 3483: Reaction and Reform, 1815-1871

A study of the changes in the political, cultural, intellectual, and social environments which characterized Europe during the period between the Congress of Vienna through the rise of the modern nation states.

HIST 3493: The Age of Empire, 1871-1919

A study of the changes in the political, cultural, intellectual, and social environments which characterized Europe during the period between the rise of the modern nation states to the end of the First World War.

HIST 3503: Europe Between the Wars, 1919-1939

A study of the changes in the political, cultural, intellectual, and social environments which characterized Europe during the period between the end of the First World War to the beginning of the Second World War.

HIST 3513: Europe Since 1939

A study of the changes in the political, cultural, intellectual, and social environments which characterized Europe during the period between the beginning of the Second World War to the present.

HIST 3533: History of Russia

A study of the cultural and political history of Russia from the reign of Peter the Great to the present, emphasizing trends in the nineteenth century which culminated in the Bolshevik Revolution.

Note: May not be repeated for credit as HIST 5463 or equivalent.

HIST 3563: History of England

A study of the history of England from national origins to modern times.

HIST 3573: History of Eastern Europe

A study of the cultural and political history of eastern Europe from the Napoleonic Wars to the present.

HIST 3603: History of Modern East Asia

This course deals with the history of East Asia after 1800. The major stress is placed upon the history of China, Korea, and Japan.

HIST 3613: History of Japan

Offered: Once every two years

The History of Japan with an emphasis on the social, cultural, and political roots of Modern Japan.

HIST 3623: History of India

Offered: Once every two years

The History of India and the South Asian subcontinent with an emphasis on the social, cultural, and political development leading to modern India.

HIST 3703: History of Modern Africa

A treatment of African history since 1600, dealing with the development of African states in sub Saharan Africa up to present African nations.

Note: May not be repeated for credit as HIST 5703 or equivalent.

HIST 3803: History of the Middle East

Political, social, and cultural survey of the history of the Middle East from the rise of Islam to modern times.

HIST 4013: American Military History

A study of the American military from its colonial origins to the present, including the development of the military establishment and its relationship with American society.

Note: May not be repeated for credit as HIST 5013 or equivalent.

HIST 4023: Vietnam War

A study of the American involvement in Vietnam, from 1945 until 1975. Emphasis will rest on the actual period of war in Vietnam.

Note: May not be taken for credit after completion of the equivalent course under HIST/POLS 4983 nor be repeated for credit as HIST 5023.

HIST 4033: The Frontier in American History

Study of the American frontier as a place, as a process, and as a state of mind influential in shaping institutions and attitudes during the expansion of this nation westward from Atlantic to Pacific.

Note: May not be repeated for credit as HIST 5033 or equivalent.

HIST 4053: Economic History of the United States

A study of the major economic forces which have helped influence, and been influenced by, United States history. Particular emphasis will be given to the development of agriculture, business, industry, and labor in their American setting.

Note: May not be repeated for credit as HIST 5053 or equivalent.

HIST 4073: American Diplomatic History, 1776-1912

This course is a study of America's diplomatic relationships with other nations and peoples from 1776 to 1912. Of particular emphasis will be the changes in international affairs brought about by the evolving economic and political conditions. This course follows the United States' early struggles in diplomacy through its expansion and eventual emergence as a world power.

HIST 4083: American Diplomatic History, 1912 to the Present

This course is a study of America's diplomatic relationships with other nations and peoples from 1912 to the present. Of particular emphasis will be the changes in international affairs brought about by the evolving economic and political conditions. This course follows the United States from its emergence as a world power through two world wars, a cold war, and a war on terrorism.

HIST 4093: American Culture Since 1800

The history and development of American regional and national culture from the early republic to the present. Topics include antebellum nationalism and regional cultures, slave and slaveholding culture, the rise of consumerism, popular and intellectual aesthetic and artistic development, and the evolution of American mass, commercial, and popular culture through the nineteenth and twentieth centuries.

HIST 4103: American Political Ideas

The background and development of American political ideas from the colonial period to the present. Emphasis is placed on colonial political theory, the Founding, conflict and consensus prior to the Civil War, the response to industrialization, the rise of the positive state, nationalism, the New Left and New Right, and current trends.

HIST 4123: African American History

This course examines the unique role and contribution of African Americans in the overall development of American history from the colonial era to the present. Topics include African societies; black colonial life; the institution of slavery, and African American responses to slavery; the free black community; African American cultural, political, and economic development; issues of assimilation, separatism, and African American responses to institutional racism; the Civil Rights Movement, and recent developments.

Note: May not be repeated for credit as HIST 5123.

HIST 4133: Latinos in the United States

This course is an analysis of the historical and cultural heritage of Latinos who have lived or are currently living in the United States. This course includes the colonial origins of Latino groups and their general migration patterns to the United States. This course also explores the development of Latino communities as well as the relationship between Latinos and social institutions.

Note: May not be repeated for credit as HIST 5133 or equivalent.

HIST 4143: Native American History

A survey of Native American history from the Archaic period to the present. This course will present an interpretation of the historical experience of the diverse nations native to North America utilizing an ethno- historical approach. Some emphasis will be placed on the formation and operation of United States government policy regarding Native Americans in both the 19th and 20th centuries.

Note: May not be repeated for credit as HIST 5143.

HIST 4153: History of Arkansas

A study of the history of Arkansas from prehistoric times to the present, noting political, social, economic, and cultural trends.

Note: May not be taken for credit after completion of HIST 2153 nor repeated for credit as HIST 5153 or equivalent.

HIST 4163: American History Through Film

This course examines 20th century American history through the study of American film, and film as cultural and historical text. Subjects for analysis include the Great Depression, World War II, the Cold War and Cold War culture, the 1960s, Vietnam, and the Reagan era. Emphasis will be on the uses of film as both primary and secondary source material for the study of history.

HIST 4173: History of American Disasters

A comparative examination of the greatest disasters in American history, the response to them, and how they affected the future of the nation.

HIST 4183: American Legal History

This course concerns the history and development of law, legal institutions, and legal culture in the United States from its colonial origins to the present day, with emphasis on constitutional case law and the interaction of law with the overall development of American society.

HIST 4193: American Labor History

This course examines the history of working people-men and women, paid and unpaid, of various racial and ethnic groups, in diverse geographic regions-primarily from the Early Republic to the present. This study will include a review of changes in work environments due to industrialization, unionization, and legal decisions.

HIST 4203: Women in American History

A treatment of women in Western and American social history in their lifestyles and economic and family roles.

Note: May not be taken for credit after completion of HIST 3203 nor repeated for credit as HIST 5203 or equivalent.

HIST 4213: Southern Women's History

A social history of the lives of women in the American South from approximately 1700 to the present which examines their lifestyles, economic, and family roles. This study includes, but is not limited to, experiences of Arkansas women.

HIST 4293: Historic Preservation

Upper-level survey of historic preservation in the United States. Course examines the theory, philosophy, and methods of maintaining the culture of the past. An introduction to the wide range of ideas underpinning the practice of preservation is covered through readings, discussions, presentations, class projects and field trips.

HIST 4403: Interpretation/Education through Museum Methods

Cross-listed: ANTH 4403, MUSM 4403

Prerequisite: Senior or Graduate standing, or permission of instructor.

Museum perspectives and approaches to care and interpretation of cultural resources, including interpretive techniques of exhibit and education outreach materials, and integrating museum interpretation/education into public school and general public programming. Class projects focus on special problems for managing interpretive materials in a museum setting.

HIST 4483: World Economic History

World Economic History traces the development of the modern global economy from the late middle ages to the present. Special attention is given to the emergence of capitalism in Europe and its migration to other parts of the world.

Note: May not be repeated for credit as HIST 5483 or equivalent.

HIST 4503: History of Christianity

A study of Christianity, from its beginnings to the present day, focusing especially on ancient Mediterranean, medieval European, and modern American Christian traditions. Emphasis will be on the interaction between individual beliefs, group identity, and institutional forces, how each have been shaped by broader social, political and cultural contexts, and finally how these interactions have resulted in profound changes for the Christian religion.

HIST 4513: History of Science

A study of the origins, nature, and development of Western science and its social, economic, and cultural context.

Note: May not be repeated for credit as HIST 5513.

HIST 4714: Social Studies Methods for Secondary Teachers

Prerequisites: SEED 2002 and the completion of 36 hours in the Social Sciences.

A course in subject-matter applications for secondary teacher education candidates (grades 7-12) in social studies. The course will incorporate a variety of instructional models, activities, and examples, as well as the integration of traditional and non-traditional resource materials.

Note: Must be completed prior to student teaching.

HIST 4813: World War II

A study of World War II, 1939 through 1945, in its origins and spread through world theaters.

Note: May not be taken for credit after completion of the equivalent course under HIST/POLS 4983 nor repeated for credit as HIST 5813.

HIST 4823: Nationalism

The course looks at the development of the idea of nation in European and World history in the last two centuries. By using historical examples the course will introduce the students to the current theoretical debate on ethnicity and nationalism. The special attention will be placed on the relationship between state power and the nation. The course will look at ethnicity in history before and after the emergence of effective means of communication, such as the printing press, radio, and television. It will also look at the role culture plays in the formation of national consciousness and how the past was used and abused to drum-up political support.

HIST 4951,4952,4953,4954: Undergraduate Research in History

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

HIST 4963: Senior Seminar

Prerequisites: HIST 1503, 1513, 2003, and 2013

Required course for History/Political Science and History Education majors. Course content will cover a directed seminar in specified American or European History. Research techniques will be emphasized.

HIST 4971: Internship

Cross-listed: POLS 4971

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/ trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

HIST 4972: Internship

Cross-listed: POLS 4972

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/ trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

HIST 4973: Internship

Cross-listed: POLS 4973

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/ trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

HIST 4974: Internship

Cross-listed: POLS 4974

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/ trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

HIST 4975: Internship

Cross-listed: POLS 4975

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/ trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

HIST 4976: Internship

Cross-listed: POLS 4976

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/ trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

HIST 4983: History Seminar

A directed seminar in an area of social sciences. The specific focus will depend upon research under way, community or student need, and the unique educational opportunity available.

Note: May be repeated for credit if course content changes.

HIST 4991,4992,4993,4994: Special Problems in History

Prerequisite: Consent by department head.

A course for majors and minors only.

Health Education Course Descriptions

HLED 1513: Personal Health and Wellness

The course is designed to motivate students toward an individual responsibility for their health status and an improved quality of life. An introspective study of personal lifestyle behavior is encouraged. The interrelationship of the multi causal factors which directly affect health status and the various dimensions of personal health are addressed.

HLED 3203: Consumer Health Programs

A study of current health services and the products offered by health providers to the health consumer and an examination of various diseases and disorders.

HLED 4303: Methods and Materials in Health for Grades K-12

Exploration of teaching methods and strategies, use of school and community resources, and evaluation related to teaching health in grades K 12.

HLED 4403: Nutrition and Physical Fitness

Prerequisite: PE 2653

A health education course which is designed to familiarize students with food as it relates to optimal health and performance. Focus is on nutrition as it affects the physical work capacity of humans from resting states to high output performance.

HLED 4991,4992,4993: Special Problems in Health

Prerequisite: Consent of department head

Independent work on approved health topics under the individual guidance of a faculty member.

Honors Program Course Descriptions

HONR 1001: Freshman Honors Seminar

Prerequisite: Acceptance into the honors program, approval of Honors Program Director.

An introductory course to the honors program, teamwork and multidisciplinary problem solving.

HONR 4093: Senior Honors Project

Prerequisites: Approval of the Director of Honors Program (if used for departmental requirement, all applicable prerequisites also apply).

A team or individual independent research project will be completed. Projects will include some aspect of academic investigation appropriate to the subject area chosen. Presentation of project findings at annual Senior Honors Symposium will be required.

Humanities Course Descriptions

HUM 2001,2002,2003: Topics in Arts and Humanities

This course offers instruction in an area of the arts and humanities not otherwise covered in the curriculum. The focus of the course will vary from semester to semester, thus the course may be repeated.

Italian Course Descriptions

ITAL 1014: Beginning Italian I

Emphasis on conversation; introduction to basic grammar, reading, writing, and culture.

ITAL 1024: Beginning Italian II

Continued emphasis on conversation and fundamental language skills.

ITAL 2014: Intermediate Italian I

Prerequisite: Beginning Italian II (ITAL 1024) or equivalent.

Instruction designed to develop communication skills and knowledge of grammar, reading, writing, and culture.

ITAL 2024: Intermediate Italian II

Prerequisite: Intermediate Italian I (ITAL 2014) or equivalent.

Instruction designed to enhance communication skills and knowledge of grammar, reading, writing, and culture.

ITAL 3113: Culture and Civilization

Prerequisite: ITAL 2024 or equivalent.

Course will be geared towards students at the intermediate or above level of linguistic competence. The course will introduce students to Italian culture through the use of authentic written texts, videos and Internet materials. Although historical background information will be provided whenever necessary, the focus will be on contemporary Italian society. Students will examine current cultural issues presented on Italian TV or in newspapers and magazines.

Journalism Course Descriptions

JOUR 1163: Basic Photography

Cross-listed: ART 1163

A study of the use of the camera, films, equipment, and the basics of black and white processing and printing. Includes introduction to lighting techniques, composition, and color photography.

JOUR 1411,1421,2411,2421,3411,3421,4411: Print Practicum

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

JOUR 1811,1821,2811,2821: Broadcast Practicum

Practical work experience in the studios of KXRJ FM and Tech television productions.

Note: Only four hours count for the journalism major.

JOUR 1911,1921,2911,2921,3911,3921,4911,4921: Multimedia Practicum

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

JOUR 2133: Introduction to Mass Communication

An introduction to the mass communication process and industry.

JOUR 2143: News Writing

A study of and practice in writing news stories.

JOUR 2153: Introduction to Telecommunication

A study of the technical, legal, programming, advertising and journalistic aspects of the telecommunication industry with practical exercises in radio, television and the Internet.

JOUR 2163: Introduction to Multimedia

Prerequisite: JOUR 2133

Introduction to Digital Multimedia is designed to teach fundamental principles of multimedia to give students a working understanding of digital media formats and their applications.

JOUR 2173: Introduction to Film

Cross-listed: ENGL 2173

Prerequisite: ENGL 1013 or equivalent.

A study of film as an art form with particular attention to genres, stylistic technique and film's relation to popular culture.

Note: JOUR 2173 may be used to fulfill the fine arts General Education requirement.

Note: JOUR 2173 may not be repeated for credit after the completion of ENGL 2173.

JOUR 3111,3121: Editorial Conference

Prerequisite: Permission of instructor.

Student news executives meet regularly with faculty to critique publication and broadcast products.

JOUR 3114: News Editing

Prerequisite: JOUR 2143, 3143.

A study of copy reading, headline writing, design, and problems and policies of editing the news.

Three hours lecture, two hours laboratory arranged.

JOUR 3133: Publications Management

An analysis of the problems in managing newspapers, magazines and other mass media.

JOUR 3143: News Reporting

Prerequisite: ENGL 1013 or 1043 and JOUR 2143

A study of news gathering and writing techniques.

JOUR 3153: Feature Writing

Prerequisite: Permission of the instructor.

A study of and practice in writing of newspaper features and magazine articles.

JOUR 3163: News Photography

Prerequisite: ENGL 1013 or 1043

A study of the use of the camera, communication through pictures, news value in pictures, and the history of photojournalism.

JOUR 3173: Public Relations Principles

A study of public opinion and the role of the mass media in shaping it, including practice in public opinion research, communications techniques and solving public relations problems.

JOUR 3183: Broadcast News Writing

Prerequisite: JOUR 2143 or 3143

Principles and techniques of writing and production of radio and television news.

Two hour class, two hour laboratory.

JOUR 3193: New Media News Gathering

Prerequisite: JOUR 2143, JOUR 3183 or consent of instructor.

Study and practice in producing news packages, including training and experience in new and traditional news gathering, preparing scripts and digital video, and operating cameras, editing decks, and other studio and field equipment.

JOUR 3273: Public Relations Writing

Prerequisites: JOUR 3173.

Provides the knowledge and skill training for students to become effective public relations writers. The course will focus on style and content of writing news releases, speeches, newsletters, brochures, annual reports and other public relations communications.

JOUR 3811,3821: Broadcast Practicum

Practical work experience in the studios of KXRJ FM and Tech television productions, including work as manager, producer, or director.

Note: Only four hours count for the journalism major.

JOUR 4011,4012,4013: Practical Editing

Actual experience editing news. Arranged with an instructor.

Note: May be taken for a maximum of three hours.

JOUR 4023: Social Media

This course offers students a solid understanding of social media, its roots and how to effectively utilize this culture from personal and corporate perspectives.

JOUR 4033: Community Journalism

A study of journalism as practiced in weeklies, small dailies, and broadcast stations in small towns and cities, including the relationship of the media to the community.

Note: For majors and non-majors.

JOUR 4043: Journalism Ethics

A study of ethical theory and basic principles needed in solving ethical challenges facing media professionals.

JOUR 4053: Mass Communication Seminar

Prerequisite: Permission of instructor.

Studies of the relationship of mass communication to social, political, technical, and economic issues. Course content will vary.

Note: May be repeated for credit as JOUR 4053 or 5053 when course content changes.

JOUR 4073: Graphic Communication

Prerequisites: JOUR 3173 and JOUR 3273

Presents the elements of effective print design as well as the other decision making processes involved with creating an effective visual communication (type, art and illustration, basic design principles, paper and ink, printing processes, etc.). Students will create visually appealing projects using the industry standard design and photo manipulation software programs.

JOUR 4083: Computer Mediated Communication

A study of communication processes in the Digital Age. Discussions and content will include contemporary emerging communication technologies and exploration into the impact those technologies have and will likely have on an individual and diverse social communities.

JOUR 4091,4092,4093,4094: Internship

Credit for work in professional journalistic settings. Credit hours will be based on hours on the job.

Note: May be taken for a total of four hours.

JOUR 4111,4121: Editorial Conference

Prerequisite: Permission of instructor.

Student news executives meet regularly with faculty to critique publication and broadcast product.

JOUR 4113: History of American Journalism

Prerequisite: Permission of instructor.

A survey of the history of American journalism and mass media and their relationships to technical, economic, political, and other aspects of American society.

Note: May not be repeated for credit as JOUR 5113.

JOUR 4123: Laws of Communication

A study of the development of freedom of press and speech, laws of libel, contempt, privacy and copyright in their relation to press, radio, television, and films.

JOUR 4133: Television News Production

Prerequisite: JOUR 3193 or consent of instructor.

Study and practice in shooting, writing, editing, and producing news, sports and feature packages. Stories will be aired during live news programming on Tech TV and placed in student video portfolios. Practical experience will focus on operating field and studio gear, including digital cameras and editing decks, and use of new media news gathering equipment.

JOUR 4143: Advanced Reporting

Prerequisites: JOUR 2143 and 3143 or permission of instructor.

Study of advanced news gathering techniques and practice in researching and writing difficult types of stories.

JOUR 4153: Editorial, Column, and Review Writing

Study of and practice in writing editorials, columns, and reviews. Includes research and discussion of the function of opinion writing in the mass media.

JOUR 4163: Advanced Photography

Cross-listed: ART 4163

Prerequisite: JOUR (ART) 1163 or consent of instructor.

An introduction to advanced photographic techniques including digital photography. Various historic and current theories of visual communication provide a substantive base for the application of techniques.

JOUR 4173: Public Relations Project

Prerequisites: JOUR 3173, JOUR 3273, JOUR 4073, or consent of instructor.

Planning, preparation and execution of a public relations program for a specific project.

JOUR 4193: Communication Research Methods

Introduction to the methodologies of behavioral science applied to communication research including design, measurement, data collection, and analysis. Explores the use of surveys, content analysis, focus groups, and experiments in studies of communication processes and effects.

JOUR 4243: Journalism Writing Seminar

A concentrated fundamentals writing course that deals with traditional techniques and various formats for journalistic writing such as editorials, feature stories, columns, reporting, press releases, and interviews.

JOUR 4421: Print Practicum

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

JOUR 4811,4821: Broadcast Practicum

Practical work experience in the studios of KXRJ FM and Tech television productions, including work as manager, producer, or director.

Note: Only four hours count for the journalism major.

JOUR 4883: Mass Communication Theory

Prerequisite: 15 semester hours of Journalism.

This course provides an examination of the major theories and domains of mass communication research, emphasizing mass media effects. Students are acquainted with the assumptions, propositions, and empirical research foundations of these theories. The course covers the historical evolution and recent trends in mass communication theory as well as the application of theories to specific contexts such as marketing or organizational communication.

JOUR 4951,4952,4953,4954: Undergraduate Research in Journalism

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

JOUR 4991,4992,4993,4994: Special Problems in Journalism

This course, for majors only, requires advanced approval by the instructor and is restricted to second semester juniors and seniors. It is designed to provide certain advanced students with further concentration in a particular area. One, two, three, or four hours may be taken as appropriate.

Japanese Course Descriptions

JPN 1014: Beginning Japanese I

No prerequisite. Introduction to the oral and written forms of the Japanese language.

JPN 1024: Beginning Japanese II

Prerequisite: JPN 1014 or equivalent.

A continuation of JPN 1014.

JPN 2014: Intermediate Japanese I

Prerequisite: JPN 1014 or equivalent.

Instruction designed to develop greater facility in fundamental skills. Four hours of classroom instruction.

JPN 2024: Intermediate Japanese II

Prerequisite: JPN 2014 or equivalent.

A continuation of JPN 2014. Four hours of classroom instruction.

JPN 3003: Conversation and Composition I

Prerequisite: JPN 2024 or equivalent.

Further study of Japanese. concentrating on grammar, reading, comprehension, essays, conversation, and kanji.

JPN 3013: Conversation and Composition II

Prerequisite: JPN 3003 or equivalent

Continuation of JPN 3003.

JPN 3113: Culture and Civilization

Prerequisite: JPN 2024 or equivalent.

Study of the economic, political, and social structure of Japan and an introduction to Japanese history and culture.

JPN 3143: Study Abroad

Prerequisites: Enrollment in a Tech-sanctioned study program in a Japan, completion of JPN 2024 or equivalent, and permission of the Study Abroad supervisor and Department Head.

Study of the contemporary language and culture in a Japan. May substitute for JPN 3003 or JPN 3013, depending on the student's proficiency level.

JPN 4283: Seminar: Japanese Language and Culture

Prerequisite: JPN 3003 or equivalent.

Specialized studies in Japanese literature, art, or social customs.

JPN 4901,4902,4903: Foreign Language Internship

Prerequisites: Advanced foreign language proficiency; permission of the instructor and the department head.

The Foreign Language Internship is intended primarily for majors in foreign languages or international studies. It is designed to provide outstanding students the opportunity to perfect their language proficiency and to acquire specific

training and skills overseas. The overseas sponsor and the foreign language instructor of record will supervise the intern. Performance evaluations and a research paper will be required.

JPN 4991,4992,4993,4994: Special Problems in Japanese

Prerequisite: completion of JPN 2024 or equivalent, permission of the instructor and Department Head.

This course is designed to provide advanced Japanese students with a course of study in an area not covered by the departmental course offerings.

Latin Course Descriptions

LAT 1013: Beginning Latin I

Instruction in the fundamentals necessary to read and write the language.

Note: Advanced placement and credit by examination are available to students who have previously studied Latin.

LAT 1023: Beginning Latin II

Prerequisite: LAT 1013 or equivalent.

A continuation of LAT 1013.

LAT 2013: Intermediate Latin I

Prerequisite: LAT 1023 or equivalent.

A study designed to continue the development of fundamental skills and to give a general reading knowledge of Latin and acquaintance with classical Latin literature, history, and philosophy.

LAT 2023: Intermediate Latin II

A continuation of LAT 2013.

LAT 3001: Greek and Latin Scientific Terminology

The course is designed to assist students with their understanding of English words which have their roots in Greek or Latin. Students who in their course of study need to know specialized vocabulary, such as science, math, pre-med, pre-law and nursing majors, will find this course extremely helpful.

Library Media Course Descriptions

LBMD 2001: Introduction to Library Resources

An introduction to the organization and function of resource collections, with practical experience in location, retrieval, and use of reference and research materials; emphasis placed on subject materials.

Note: Course will not count toward licensure.

Mathematics Course Descriptions

(A grade of "C" or better must be earned in the course used to satisfy the general education mathematics requirement.)

MATH 0803: Beginning Algebra

Content of this course is as follows: the language of algebra, fundamental operations, signed numbers, equations and problem solving.

Note: The grade in the course will be computed in semester and cumulative grade point averages, but the course may not be used to satisfy general education requirements nor provide credit toward any degree.

Note: A student who makes a D or F in MATH 0803 must repeat the course in each subsequent semester until he or she earns a grade of C or better. Students who make a grade of C or better in MATH 0803 must enroll in MATH 0903 the following semester.

MATH 0903: Intermediate Algebra

Prerequisites: One unit of high school algebra, grade of C or better in MATH 0803, or consent of the Mathematics Department.

The purpose of this course is to prepare for college level mathematics those students whose mathematics background is inadequate. Content of the course is fundamental operations, linear equations, special products and factoring, fractions, functions, graphs, and systems of linear equations.

Note: The grade in the course will be computed in semester and cumulative grade point averages, but the course may not be used to satisfy general education requirements nor provide credit toward any degree.

Note: A student who makes a D or F in MATH 0903 must repeat the course in each subsequent semester until he or she earns a grade of C or better.

MATH 1003: College Mathematics

Prerequisites: Score of 19 or above on the mathematics subscore of the Enhanced ACT, score of 460 or above on the quantitative portion of SAT, score of 41 or above on the quantitative portion of the COMPASS mathematics section, or make a grade of C or higher in Math 0903.

The course focuses upon the mathematics of contemporary life. Topics include Planning and Scheduling schemes from Management Science, Data Analysis, Probability and Inference from Statistics, Voting Systems and Division Schemes from the science of Social Choice, and various Growth Models.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 1113: College Algebra

Prerequisites: Score of 19 or above on the mathematics portion of the ACTE exam, or score of 460 or above on the quantitative portion of SAT, or score of 41 or above on the COMPASS mathematics section, or grade of "C" or better in MATH 0903.

Exponents and radicals, introduction to quadratic equations, systems of equations involving quadratics, ratio, proportion, variation, progressions, the binomial theorem, inequalities, logarithms, and partial fractions.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

Note: May not be taken for credit after completion of MATH 2703 or any higher level mathematics course.

MATH 1203: Plane Trigonometry

Prerequisite: MATH 1113 or consent of Mathematics Department.

A study of the properties of the trigonometric functions and their graphs, solution of right and oblique triangles, formulas

and identities, inverse functions, and trigonometric equations.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 1914: Precalculus

Prerequisites: Completion of high school algebra I and II with a grade of C or better and a score of 19 or above on the mathematics portion of the ACTE exam, or score of 460 or above on the quantitative portion of the SAT, or score of 41 or above on the COMPASS mathematics section, or MATH 1113 and MATH 1203, or a grade of C or better in MATH 0903.

This course is designed to provide additional mathematical background before enrolling in the calculus sequence.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2033: Mathematical Concepts I

Prerequisite: MATH 1113, elementary education major

Elementary set theory, numeration systems, elementary number theory and the real number system.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2043: Mathematical Concepts II

Prerequisites: MATH 2033, elementary education major

A continuation of MATH 2033, including a study of the elementary concepts of probability and statistics, and an informal study of geometry.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2163: Introduction to Statistical Methods

Prerequisites: MATH 1113 or consent of the instructor.

Descriptive statistics, random variables, probability and sampling distributions, estimation, hypothesis testing, regression, analysis of variance, non parametric techniques.

Note: May not be taken for credit after completion of MATH 3153.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2223: Quantitative Business Analysis

Prerequisites: Completion of high school algebra I and II with a grade of "C" or better and a score of 22 or higher on the mathematics portion of the ACTE exam or MATH 1113.

This course is designed to develop the ability to use quantitative methods in accounting, business, and economics; it includes models of cost, revenue, and profit, linear programming, and probability.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2243: Calculus for Business and Economics

Prerequisites: Completion of high school algebra I and II with a grade of C or better and a score of 22 or higher on the mathematics portion of the ACTE exam or MATH 1113.

An introduction to the concepts of differentiation and integration. Emphasis will be placed on applications of calculus in business, economics, accounting, social sciences, and life sciences.

Note: May not be taken for credit after completion of MATH 2914 or equivalent.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2703: Discrete Mathematics

Prerequisite: MATH 1113

A study of graph theory, trees, combinatorics, logic, and Boolean Algebra.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2914: Calculus I

Prerequisites: Math ACTE score of 24 or higher, or a grade of C or higher in MATH 1914 or MATH 1203 or consent of instructor.

This is the first of two courses covering the calculus of functions of a single variable. The content covers differentiation of all single variable functions and introduces integration of functions.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2924: Calculus II

Prerequisite: MATH 2914 or equivalent

This is the second of two courses covering the calculus of functions of a single variable.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2934: Calculus III

Prerequisite: MATH 2924 or equivalent

This is the third course in the elementary calculus sequence. It covers the calculus of functions of several variables.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 2981,2982,2983: Special Topics in Mathematics

Prerequisites: Math ACTE score of 22 or higher, or MATH 1113, or consent of instructor.

This course will be offered on an as-needed basis to cover topics in mathematics that are not otherwise covered in the curriculum. The content and credit for this course will vary according to the interests and needs of the student. This course may be repeated for credit if the course content differs.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 3003: Foundations of Number Systems

Prerequisite: MATH 2703

A brief review of elementary set theory, followed by the construction of the natural numbers, the integers, the rational numbers, the real numbers and the complex numbers accompanied by a development of the order and field properties.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 3033: Methods of Teaching Elementary Mathematics

Prerequisite: MATH 2043 and admission to Stage II.

A course on methods of teaching the mathematics of the elementary school using mathematical concepts and principles taught in these grades.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 3123: College Geometry

Prerequisite: MATH 2924

A formal approach to plane geometry with coordinates; sets, points, lines, planes, distance, and coordinate systems, angles, congruence, parallelism, and similarity.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 3153: Applied Statistics I

Prerequisite: MATH 2924

A balanced approach emphasizing both theory and applications will be taken. Topics include descriptive statistics, exploratory data analysis, probability and probability models, discrete and continuous random variables, confidence intervals, hypothesis testing, and control charts. Students will be required to collect data, use a current statistical software package to analyze the data, and make inferences based upon the data analysis as part of an individual and/ or group project.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 3173: Math Methods for Engineers

Offered: Annually

Prerequisite: MATH 3243

This course is designed to give the undergraduate student an introduction to a variety of advanced mathematical techniques used in solving engineering problems. The course will cover linear algebra, complex variables, discrete mathematics, and applied statistics.

MATH 3203: Introduction to Analysis

Prerequisite: MATH 3003

A careful development of the real number system and the theory of calculus on the real line.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 3243: Differential Equations I

Prerequisite: MATH 2924

A study of differential equations of the first order; linear equations of higher order including the methods of undetermined coefficients and variation of parameters; linear equations with constant coefficients; special equations of order two and systems of linear first-order differential equations using matrices.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4003: Linear Algebra I

Prerequisite: MATH 2924

Matrices and matrix algebra, systems of linear equations, determinants, eigenvalues, eigenvectors, general vector spaces, linear transformations.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4033: Abstract Algebra I

Prerequisite: MATH 3003

A study of Groups and other algebraic structures. Topics include sub-groups, normal sub- groups, abelian groups, groups of permutations, homomorphisms, kernels, and range.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4103: Linear Algebra II

Prerequisites: MATH 4003 or the consent of the Department of Mathematics.

A continuation of MATH 4003 with emphasis on abstract vector spaces, inner product spaces, linear transformations, kernel and range, and applications of linear algebra.

Note: MATH 5103 may not be taken for credit after completion of MATH 4103 or equivalent.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4113: History of Mathematics

Prerequisite: MATH 2934

A study of selected topics from the history and nature of mathematics from ancient to modern times. Emphasis will be placed on the historical development of mathematics through a study of biographies of prominent mathematicians and the evolution of some important mathematical concepts. The fundamental role of mathematics in the rise, maintenance, and extension modern civilization will be considered.

Note: MATH 5113 may not be taken for credit after completion of this course.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4123: Mathematical Modeling

Prerequisites: MATH 2703 and MATH 3243

This course provides an introduction to the mathematical modeling process and applies this process to problems that may be modeled with pre senior level mathematics. Emphasis will be placed on connections of mathematics to application areas such as business, industry, economics, physical sciences, biological sciences, medicine and social sciences.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4133: Abstract Algebra II

Prerequisite: MATH 4033

Groups, subgroups, homomorphisms, isomorphisms, complex numbers, finite groups.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4153: Applied Statistics II

Prerequisite: MATH 3153

This course is a continuation of MATH 3153 with emphasis on experimental design, analysis of variance, and multiple regression analysis. Students will be required to design and carry out an experiment, use a current statistical software package to analyze the data, and make inferences based upon the analysis.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4173: Advanced Biostatistics

Prerequisites: An introductory statistics course or permission of instructor.

This course will include analysis of variance, one factor experiments, experimental design with two or more factors, linear and multiple regression analysis, and categorical data analysis.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4243: Differential Equations II

Prerequisites: MATH 3243 and MATH 4003 or consent of the instructor.

A continuation of MATH 3243 with emphasis on higher order and systems of differential equations.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4263: Mathematical Statistics

Prerequisite: MATH 3153

This is an introductory course in mathematical statistics. Topics include distribution functions (both discrete and continuous), multivariate distributions, distributions of functions of random variables, and statistical inference.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4273: Complex Variables

Prerequisite: MATH 2934

An introduction to complex variables. This course will emphasize the subject matter and skills needed for applications of complex variables in science, engineering, and mathematics. Topics will include complex numbers, analytic functions, elementary functions of a complex variable, mapping by elementary functions, integrals, series, residues and poles and conformal mapping.

Note: MATH 5273 may not be taken for credit after completion of this course.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4343: Introduction to Partial Differential Equations

Prerequisites: MATH 2934 and MATH 3243

This course is an introduction to partial differential equations with emphasis on applications to physical science and engineering. Analysis covers the equations of heat, wave, diffusion, Laplace, Dirichlet and Neumann equations. Course is suitable for senior level or first year graduate students in Mathematics, Physics, and Engineering.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4703: Special Methods in Mathematics

Prerequisites: SEED 2002 and junior standing or permission of the instructor.

This course, designed for prospective junior and senior high mathematics teachers, will provide the student with knowledge of current research and practice in mathematics education, a setting in which to apply that knowledge, and the opportunity to assess their teaching performance and formulate a plan for improvement.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4772: Mathematics Teaching Practicum

A course designed to provide mathematics education majors with experience in teaching mathematics and assessing student performance.

Note: A grade of C or better must be earned in the course used to satisfy the general education mathematics requirement.

MATH 4951,4952,4953,4954: Undergraduate Research in Mathematics

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

MATH 4971: Mathematics Senior Seminar

Prerequisites: MATH 3203 or MATH 4033, or departmental approval.

Students will engage in a research project under the guidance of faculty research advisors. The research area will depend on the interests of the students and available expertise of faculty advisors. The students will present their findings before their peers, faculty advisors, and members of the Mathematics Department Assessment Committee.

MATH 4991,4992,4993,4994: Special Problems in Mathematics

The content and credit for this course will be designed to meet the needs of the student.

Note: A grade of C or better must be earned in this course if being used to satisfy the general education mathematics requirement.

Mechanical Engineering Course Descriptions

MCEG 1002: Engineering Graphics

General course in the most important types of engineering drawings. A foundation course in lettering, geometrical exercises, orthographic projections, including auxiliary views, sections, pictorial representation. The computer is introduced as a drafting tool.

Lecture and laboratory four hours.

MCEG 1012: Introduction to Engineering

Cross-listed: ELEG 1012

Co-requisite: MATH 1113 or any higher level mathematics course.

An introductory course to acquaint students with the technical and ethical aspects of engineering, the analytic approach to problem solving, measurements and calculations.

Two hours lecture/lab

MCEG 2013: Statics

Prerequisites: MATH 2924 and PHYS 2114

Principles of statics, resultants, equilibrium, and analysis of force systems. Structure analysis, forces in space, friction, centroids, and moments of inertia.

MCEG 2023: Engineering Materials

Prerequisite: CHEM 2124

A study of the mechanical and physical properties, micro structure, and the various testings of engineering materials (metals, plastics, woods, and concrete) from the viewpoint of manufacture and construction.

MCEG 2033: Dynamics

Prerequisite: MCEG 2013

A continuation of MCEG 2013. Study of problems of unbalanced force systems. Kinematics and kinetics of rigid bodies. Work and energy, impulse and momentum.

MCEG 2203: Computational Methods in Engineering

Prerequisites: MCEG 1012 and MATH 2914

An introduction to common computational methods, tools, and procedures used in the solution of common engineering problems. A standard solution methodology is introduced along with instruction in units systems, spreadsheet and calculator computations and the use of engineering software.

Lecture two hours.

MCEG 3003: Engineering Modeling and Design

Cross-listed: ELEG 3003

Prerequisites: COMS 2803 or MCEG 2203 and MATH 3243

Reduction of engineering systems to mathematical models; methods of analysis using computers; interpretation of numerical results; optimization of design variables. Examples are drawn from various engineering disciplines.

MCEG 3013: Mechanics of Materials

Prerequisite: MCEG 2013

Fundamental stress and strain relationships, torsion, shear and bending moments, stresses and deflections in beams; introduction to statically indeterminate beams, columns, combined stresses, and safety factors.

MCEG 3023: Manufacturing Processes

Prerequisites: MCEG 2023 and 3013

Morphological aspects of manufacturing processes, testing of engineering metals, metal working processes, metal forming processes, machining, non-destructive inspection methods, statistical process control, control charts, and total quality management concepts.

MCEG 3313: Thermodynamics I

Prerequisites: MATH 2924 and PHYS 2114

An introduction to thermodynamics, including thermodynamic properties of pure substances, heat and work, the first and second laws of thermodynamics, and entropy with applications to power and refrigeration cycles.

MCEG 3403: Machine Dynamics

Prerequisite: MCEG 2033 and MATH 3243

The study of the relative motion of machine components, force systems applied to these components, the motions resulting from these forces, and their effect on machine design criteria.

MCEG 3413: Fundamentals of Mechanical Design

Prerequisites: MCEG 2033, 3013, and MATH 3243

Analysis of machines and components through application of basic fundamentals and principles.

MCEG 3442: Mechanical Laboratory I

Prerequisites: MCEG 2023 and MCEG 3013

A study of the basic materials testing procedures and instrumentation. Emphasis will be placed on proper laboratory techniques including data collection, data reduction, and report preparation.

Lecture one hour, laboratory three hours.

MCEG 3503: Basic Nuclear Engineering

Prerequisites: MATH 2924, CHEM 2124 and PHYS 2114

An introduction to atomic and nuclear processes and to nuclear science and engineering fundamentals, including the nature of nuclear radiation, the nuclear chain reaction, criticality, power reactor types, and applications of nuclear technology.

MCEG 3512: Radiation Detection Laboratory

Prerequisites: MATH 2914, CHEM 2124 or consent.

A study of each of the common kinds of nuclear radiation, including the detection and analysis methods and applications to nondestructive assays. Use of computers in analyses.

Lecture one hour, laboratory three hours.

MCEG 3523: Radiation Health Physics

Prerequisites: MATH 2914, CHEM 2124, or consent.

A study of the protection of individuals and population groups against the harmful effects of ionizing radiation. Included in the study is: (1) radiation detection and measurement, (2) relationships between exposure and biological damage, (3) radiation and the environment, (4) design criteria for processes, equipment, and facilities so that radiation exposure is minimized, and (5) environmental impact of nuclear power plants.

MCEG 3991,3992,3993,3994: Special Problems in Engineering

Prerequisite: Minimum of three hours at the junior level in area of study.

Individual or specialized study in advanced area under the direction of a faculty advisor.

MCEG 4042: Metallurgy Laboratory

Co-requisite: MCEG 4043

Laboratory experiments in heat treating, phase transformation, plastic deformation, work hardening and creep. Concepts and topics from MCEG 4043 are emphasized in the lab exercises. Failure analysis modes and examples are included.

Lecture one hour, lab three hours.

MCEG 4043: Physical Metallurgy

Prerequisites: MCEG 2023, 3013, 3313

This course provides the student with an in-depth background to the mechanisms and applications of dislocation motion, crystal plasticity, phase transformations and solidification processes. Common industrial and experimental processes are studied for both ferrous and non-ferrous materials.

MCEG 4053: Corrosion Principles

Prerequisites: MCEG 2023, 3013, 3313

A study of the fundamental causes of corrosion and corrosion damage in metals and metallic components. Electrochemistry is used to explore the basic reactions governing environmental corrosion while thermodynamics and kinetics are used to investigate the rate of controlling steps of environmental attack. Includes an overview of techniques commonly used to control corrosion damage in industry and architecture.

MCEG 4202: Engineering Design

Cross-listed: ELEG 4202

Prerequisites: MCEG major, senior standing and MCEG 3413.

This course serves as the first part of a two course sequence in which the student completes a senior design project. Design methodologies and tools including real world design considerations such as environmental impact, engineering ethics, economics, safety, product costing and liability are introduced. Design for manufacture, project management, scheduling and proposal writing will be covered. Successful completion of this course shall require completion of a proposal for a senior design project being accepted by the faculty design project review process.

MCEG 4323: Power Plant Systems

Prerequisite: MCEG 3313 or consent.

Co-requisite or Prerequisite: MCEG 4403

A study of the design and operation of steam electric power plant components and systems. Fossil and renewable energy plants are emphasized.

MCEG 4332: Thermal Systems Laboratory

Prerequisites: MCEG 3313, 4403

Co-requisites: MCEG 4433, 4443

Advanced laboratory experiments in heat transfer and thermal systems. Conduction, convection and radiation heat transfer phenomena, power and refrigeration cycle operation, psychrometrics.

Lecture one hour, laboratory three hours.

MCEG 4343: Internal Combustion Engines

Prerequisites: MCEG 3313 and MCEG 4403

A study of the operating and design principles of internal combustion engines. The course will cover combustion cycles, emissions, and performance analysis and testing.

Lecture three hours with lab exercises.

MCEG 4403: Mechanics of Fluids and Hydraulics

Prerequisites: MCEG 2033 and 3313

A study of statics and dynamics of incompressible fluids. Major topics include the basic fluid flow concepts of continuity, energy and momentum, dimensional analysis, viscosity, laminar and turbulent flows, and flow in pipes.

MCEG 4413: Finite Element Analysis

Prerequisites: ELEG 2103, MCEG(ELEG)3003, and MCEG 3013

Introduction to approximate methods using finite elements. Development of the finite element method using variational formulations. Applications include machine design, mechanical vibrations, heat transfer, fluid flow and electromagnetics.

MCEG 4423: Machine Component Design

Prerequisites: MCEG 3413 and MATH 3153

Design and analysis of specific machine components including gears, clutches, springs, and bearings.

MCEG 4433: Thermodynamics II

Prerequisites: MATH 2934, 3243 and MCEG 3313

A continuation of MCEG 3313. The study of thermodynamics is extended to the investigation of relations for simple substances, non-reacting mixtures, reacting mixtures, chemical reactions and a study of availability analysis. Power and refrigeration cycles are studied in more depth.

MCEG 4442: Mechanical Laboratory II

Prerequisite: MCEG 4403

A study of fluid mechanics and thermodynamics experimentation techniques. Laboratory projects will be assigned with student responsibility for procedure development and test program implementation. Formal laboratory reports will be required.

Lecture one hour, laboratory three hours

MCEG 4443: Heat Transfer

Prerequisites: MCEG 3313 and MCEG 4403

Basic thermal energy transport processes, conduction, convection, and radiation, and the mathematical analysis of

systems involving these processes in steady state and time dependent cases.

MCEG 4453: Energy Management

Prerequisite: MCEG 3313

Energy management in commercial building and industrial plants. Utility rate structures. Sources of primary energy. Energy conversion devices. Prime movers of energy. Heat. Electricity. Lighting. HVAC Equipment. Building envelope. Electric motors. Estimating energy savings. Economic justification. Energy auditing.

MCEG 4463: Heating, Ventilating, and Air-Conditioning Design

Prerequisites: MCEG 3313 or permission of instructor

A study of the principles of human thermal comfort including applied psychometrics and air-conditioning processes. Fundamentals of analysis of heating and cooling loads and design of HVAC systems.

MCEG 4473: Mechanical Vibrations

Prerequisites: MCEG 2033, MATH 3243

The study of free and forced vibration of single degree-of-freedom systems, response to harmonic, periodic and non-periodic excitations. Multi-degree-of-freedom systems and matrix methods are explored. Computational techniques for predicting system response continuous systems are introduced.

MCEG 4493: Mechanical Design Project

Prerequisites: MCEG(ELEG) 3003, 4202, MCEG 4423, senior standing and consent of instructor.

An independent or group project in mechanical engineering design. Where appropriate, a team approach will be employed. Emphasis will be placed on designing a mechanical system or sub system with due regard for: safety, environmental concerns, reliability, longevity, ease of manufacturing, maintainability, and cost effectiveness. Both a written and oral report are required.

MCEG 4503: Nuclear Power Plants I

Prerequisites: MCEG 3503, MCEG 4403

A study of the various types of nuclear reactor plants including the methods used for energy conversion. Relative advantages/disadvantages of various plant types investigated.

MCEG 4991,4992,4993,4994: Special Problems in Engineering

Prerequisite: Minimum of three hours at the junior level in area of study.

Individual study in advanced area of the student's choice under the direction of a faculty advisor.

Medical Technology Course Descriptions

(Medical Technology courses are offered at affiliated institutions.)

MEDT 4012,4013: Clinical Microscopy and Body Fluids

(Medical Technology courses are offered at affiliated institutions.)

Use of the microscope in laboratory diagnostic procedures and introduction to body fluid chemistry, particularly blood, urine and spinal fluids. Emphasis on pathological conditions resulting from abnormal concentrations of substances.

MEDT 4029: Hematology

(Medical Technology courses are offered at affiliated institutions.)

Consideration of typical and atypical medical laboratory procedures in hematology with emphasis on principles, methodology, sources of error, and clinical application. Supervised training in standard and special laboratory techniques.

MEDT 4035: Immuno-hematology

(Medical Technology courses are offered at affiliated institutions.)

Consideration of typical and atypical medical laboratory procedures in immuno hematology and blood banking with emphasis on principles, methodology sources of error, and clinical application. Supervised training in standard and special laboratory techniques.

MEDT 4048,4049: Clinical Chemistry and Instrumentation

(Medical Technology courses are offered at affiliated institutions.)

Consideration of methods of determining chemical composition of body fluids and analysis using standard and special laboratory instruments. Study of design, construction, and operation of instruments such as balances, centrifuges, pH meters, autoanalyzers, null balances, others.

MEDT 4056,4057: Microbiology

(Medical Technology courses are offered at affiliated institutions.)

Consideration of typical and atypical medical laboratory procedures in microbiology with emphasis on diagnostic medical bacteriology virology, and mycology. Supervised training in standard and special laboratory techniques.

MEDT 4064: Parasitology

(Medical Technology courses are offered at affiliated institutions.)

Consideration of typical and atypical medical laboratory procedures in parasitology with emphasis on methodology and clinical application. Supervised training in standard and special laboratory techniques.

MEDT 4073: Serology

(Medical Technology courses are offered at affiliated institutions.)

Consideration of typical and atypical medical laboratory procedures in serology with emphasis on methodology, sources of error, and clinical application. Supervised training in standard and special laboratory techniques.

MEDT 4081,4082: Special Topics

(Medical Technology courses are offered at affiliated institutions.)

Subject matter may include the following: hospital orientation, laboratory management, radioisotope techniques, laboratory safety, special projects, special techniques, quality control procedures, and seminars on various subjects deemed necessary by hospital personnel.

Management Course Descriptions

(Additional prerequisites for 3000-level and 4000-level courses are listed in the [College of Business](#) section of this catalog.)

MGMT 3003: Management and Organizational Behavior

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Basic principles of management and organizational behavior including planning, organizing, leading, controlling, staffing, decision making, ethics, interpersonal influence, and group behavior; conflict management; job design; and organizational change and development.

MGMT 3103: Operations Management

Prerequisites: MGMT 2013, BUAD 2053, and MGMT 3003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of the overall operations management task. Critical issues include its integration of market issues, the development of operations strategies, and the management of people. Specific attention is given to the design and development of services and products and the systems by which they are produced and delivered. Factors central to the operations management task include capacity, technology, scheduling and execution, quality, inventory, the significant role of managing the supply chain, and process and delivery system reliability and maintenance.

MGMT 3113: Managerial Process Analysis

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course is a study of the analysis, mapping, and improvement of business processes using standard symbols, popular software tools, metrics, and general systems theory. Examples of sample business processes and topics include customer service, sales management, scheduling, manufacturing, supply chain management, logistics, hiring/job search, process mapping diagrams, organizational charts, workflow and environment layout, cause and effect analysis, systems analysis and design, collection and analysis of process data, and optimization. Software tools are used for process diagramming, concept mapping, physical facilities layout, project planning and management, and data filtering and analysis.

MGMT 3123: Business Ethics

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course is an interdisciplinary study of business ethics and the social responsibility of business organizations in society. The course will consider professional and applied ethics, law and organizational behavior. The focus of the course is on the individual managerial decision making process in response to ethical issues arising in the business context. Students will explore the role of business in society; discuss general theories of ethics; explain and apply key ethical theories in business; and develop and defend their own ethical positions.

MGMT 4013: Management Information Systems

Prerequisites: COMS 1003 or BUAD 2003, and BUAD 2053, MGMT 2013, MGMT 3003, and MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of information processing, the systems concept, the analysis and design of information systems, and database hardware and software technology as they apply to producing information to be used in business decision making. Emphasis will be given to practical application for business.

MGMT 4023: Personnel/Human Resource Management

Prerequisites: MGMT 3003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of that function performed in organizations which facilitates the most effective use of people (employees) to achieve organizational and individual goals. Topics covered include the law and personnel/human resource management, personnel analysis, planning, and staffing; performance evaluation and compensation, training and developing of human resources; labor relations, employee safety and health; work scheduling; evaluation of personnel/ human resources management.

MGMT 4033: Internship I in Management

Prerequisites: Permission of the Instructor, Department Head and Dean; Junior Standing; minimum 2.5 overall GPA. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A supervised, practical experience providing undergraduate MGMK majors with a hands-on professional management/marketing experience in a position relating to an area of career interest. The student will work in a local cooperating business establishment under the supervision of a member of management of that firm. A College of Business faculty member will observe and consult with the students and the management of the cooperating firm periodically during the period of the internship. Students will be required to make oral reports in the classroom, maintain an internship log, and prepare a final term paper.

Note: Only three hours of internship may be used to satisfy the curriculum requirements for management or marketing electives. Additional hours may be used to satisfy the curriculum requirements for general electives.

MGMT 4043: Internship II in Management

Prerequisites: Internship I, permission of the Instructor, Department Head and Dean; Junior Standing; minimum 2.5 overall GPA. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

To be taken after completion of Internship I. A supervised, practical experience providing undergraduate MGMK majors with a hands-on professional management/marketing experience in a position relating to an area of career interest. The student will work in a local cooperating business establishment under the supervision of a member of management of that firm. A College of Business faculty member will observe and consult with the students and the management of the cooperating firm periodically during the period of the internship. Students will be required to make oral reports in the classroom, maintain an internship log, and prepare a final term paper.

Note: Only three hours of internship may be used to satisfy the curriculum requirements for management or marketing electives. Additional hours may be used to satisfy the curriculum requirements for general electives.

MGMT 4053: Small Business Management

Prerequisites: MGMT 3003, MKT 3043, and senior standing. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Application of business management principles to the creation and operation of small scale enterprises. Emphasis on the preparation and implementation of business plans for such enterprises.

MGMT 4063: Entrepreneurial Development

Prerequisites: Approval from instructor. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

The course is designed to increase the students' understanding of critical entrepreneurial and venture creation concepts through practical applications and through textual readings. Specifically, students will take preliminary small business plans and develop and formalize plans that will be submitted for competition consideration at the annual Donald W. Reynolds Governor's Cup business plan competitions.

MGMT 4073: Special Topics in Management

Prerequisite: MGMT 3003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

In-depth exploration of selected management topics. The primary topic will vary from offering to offering; thus, the course may be taken more than once.

MGMT 4083: Business Policy

Prerequisites: Senior standing and completion of all junior-level College of Business core courses except for FIN 3063. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

As the capstone course in the College of Business core, this course examines the application of strategic management processes, including top management's role in situational analysis, strategy selection, strategy implementation, and strategic control, under conditions of uncertainty.

MGMT 4093: Human Behavior in Organizations

Prerequisites: MGMT 3003. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of individual and group behavior in organizations. Topics covered include personality and individual differences, personal systems, values and ethics, perception, attribution theory, goal setting, reinforcement theory, theories of motivation and leadership, group systems, power and social influence, and organizational structure.

MGMT 4113: Managerial Issues in Electronic Commerce

Prerequisites: MGMT 3003, and MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of managerial issues and strategies involved in Internet-based buying and selling activities. The course examines appropriate business models and best practices in generating revenue, market share, and profit from wholesaling and retailing activities in business-to-consumer, business-to-business, and consumer-to-consumer venues. Topics include initiation and management of electronic commerce operations, technological infrastructure and tools, marketing, customer relationship management, electronic payment, security, staffing, social impacts, ethics, regulation, and international markets.

MGMT 4203: Project Management

Prerequisites: COMS 1003, BUAD 2053, MGMT 3003, MGMT 4013, MKT 3043, or instructor approval. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Project Management is studied from a practical perspective. In this course, students explore techniques of organizing the three main elements of project management: cost, schedule and scope, as well as how to manage the most important aspect of Project Management: PEOPLE. Students will learn to utilize software that aids in the visualization of the project management process. The emphasis of this special topic in management will be aimed toward an understanding of Project Management for future business leaders and engineers. The course will culminate with a month-long, graded, practical exercise with industry where students will be organized into teams or as individual developers and sent to explore all aspects of a problem, conduct a project initiation workshop, and then present a project management plan to the leadership of that participating industry.

MGMT 4213: Business Leadership

Prerequisites: MGMT 3003, MKT 3043, or instructor approval. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

The course is an overview of the concepts and issues associated with contemporary leadership. It outlines the challenges, methods, and responsibilities of leading in our society. It covers what every informed citizen should know about leading in a variety of settings: the processes, styles, and pitfalls. We will address leader development, and discuss ethical issues related to leading. Guest speakers and student presentations will provide real world contemporary experiences for comparison to the text materials. Students are expected to be active participants in class. The final paper will serve as a roadmap for leadership development for each student for the next ten years.

MGMT 4223: Leadership: Ideas and Images in Art, Film, History, and Literature

Prerequisites: Junior standing or instructor permission. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

This course probes the definition, meaning, practice, and paradox of leadership by exploring ideas and images found in diverse domains such as film, art, literature, and history. These ideas and images are used as a platform for examining leadership challenges and for developing personal insights into leadership practice, issues and values.

Marketing Course Descriptions

(Additional prerequisites for 3000-level and 4000-level courses are listed in the [College of Business](#) section of this catalog.)

MKT 3043: Principles of Marketing

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Marketing fundamentals, the ultimate consumer, the retailing and wholesaling systems, marketing functions, marketing policies, marketing costs, critical appraisal of marketing, marketing and the government.

MKT 3163: Consumer Behavior

Prerequisites: MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of the development of consumer decision making processes and the factors which influence them. Psychological, sociological, economic, cultural, and situational factors are examined. Their impact on marketing formulation, both domestic and international, is emphasized.

MKT 4033: Internship in Marketing I

Prerequisites: Permission of the Instructor, Department Head and Dean; Junior Standing; minimum 2.5 overall GPA. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A supervised, practical experience providing undergraduate MGMK majors with a hands-on professional management/marketing experience in a position relating to an area of career interest. The student will work in a local cooperating business establishment under the supervision of a member of management of that firm. A College of Business faculty member will observe and consult with the students and the management of the cooperating firm periodically during the period of the internship. Students will be required to make oral reports in the classroom, maintain an internship log, and prepare a final term paper.

Note: Only three hours of internship may be used to satisfy the curriculum requirements for management or marketing electives. Additional hours may be used to satisfy the curriculum requirements for general electives.

MKT 4043: Internship II in Marketing

Prerequisites: Internship I, permission of the instructor, Department Head and Dean; Junior Standing; minimum 2.5 overall GPA. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

To be taken following completion of Internship I. A supervised, practical experience providing undergraduate MGMK majors with a hands-on professional management/marketing experience in a position relating to an area of career interest. The student will work in a local cooperating business establishment under the supervision of a member of management of that firm. A College of Business faculty member will observe and consult with the students and the management of the cooperating firm periodically during the period of the internship. Students will be required to make oral reports in the classroom, maintain an internship log, and prepare a final term paper.

Note: Only three hours of internship may be used to satisfy the curriculum requirements for management or marketing electives. Additional hours may be used to satisfy the curriculum requirements for general electives.

MKT 4053: Sport and Event Marketing

Prerequisites: MKT 3043, or instructor approval. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

To apply marketing concepts to sporting, cultural, historical, and charitable activities and events. To examine the performance, production, and promotional segments of the sport and event markets.

MKT 4063: Advertising

Prerequisites: MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

The "how" and "why" of advertising: principal problems faced by advertisers and advertising agencies, approaches, policies, and procedures as related to successful marketing techniques.

MKT 4073: Retail Operations

Prerequisites: MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of the overall service operations management task, market issues and the development of business and operations strategies, and the management of people. Specific attention is given to the design and development of services and products and the delivery systems by which they are produced and delivered. Factors central to the service operations management task include yield management, technology, queuing models, quality, servicescape, the significant role of service supply, and managing facilitating goods.

MKT 4093: International Marketing

Prerequisites: MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Analysis of opportunities, distinctive characteristics and emerging trends in foreign markets, including exploration of alternative methods and strategies for entering foreign markets; organizational planning and control; impact of social, cultural, economic and political differences; and problems of adapting American marketing concepts and methods.

MKT 4103: Special Topics in Marketing

Prerequisites: MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

In-depth exploration of selected marketing topics. The primary topic will vary from offering to offering, thus, the course may be taken more than once.

MKT 4143: Marketing Management

Offered: Fall

Prerequisites: MKT 3043, MGMT 3003 and senior standing. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Advanced study of decisions facing a marketing executive. Topics covered include product planning, consumer behavior, promotion, sales management, and pricing.

MKT 4153: Research Methods

Offered: Spring

Prerequisites: BUAD 2053, MKT 3043. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A study of the development of the basic methodology in research design for primary and secondary data, including requirements for collection, analysis, editing, coding, and presentation of data to support marketing decisions.

Middle Level Education Course Descriptions

MLED 2003: Introduction to Education

Prerequisites: Stage I course and will be taken before admittance to the Middle Level Teacher Education Program.

Introduction to philosophy of education and to the concept of education as a career with an emphasis on middle-level education. The format will include a weekly lecture and on-site field experiences in a public school setting. This course will also provide potential middle-level teachers with an overview of the social and historical aspect of the American Education System.

MLED 3012: Research Foundations

Prerequisite: Admission of Stage II to the Middle Level Teacher Education Program.

Presentation of the knowledge base and practice in the skills needed to locate educational research information; analyze, synthesize, and evaluate the compiled materials; and write a professional research report based on the composite findings.

MLED 3024: Psychological Foundations for the Nature and Needs of Middle Level Students

Prerequisite: Admission to Stage II of the Middle Level Teacher Education Program.

General principles of the physical, social, emotional, intellectual, and moral development of early adolescents and the developmental implications on curriculum and instruction, learning, the learner's potentialities with attention to individual differences, the environment of effective learning, application of psychology to educational problems.

MLED 3034: Literacy Development in the Middle Grades

Prerequisite: Admission to Stage II of the Middle Level Teacher Program.

Presentation of the knowledge base and methodology needed to guide students in the middle grades toward competency and maturity as readers and writers and practice in the teaching/learning strategies related to reading in all content area disciplines.

MLED 3041: School to Home Communication

Prerequisites: Admission to Stage II of the Middle Level Teacher Education Program.

Presentation of methods of communication between the home and school for the classroom teacher will be explored. The use of classroom management software for school reports, student information sheets, newsletters, electronic mail, and letters to home as well as telephone skills will be practice. Exploration of the use of community resources and evaluation as related to meeting the needs of middle level students and families.

MLED 3062: Tests & Educational Measurements

Prerequisites: Admission to Stage II of the Middle Level Program.

A survey of test theory with particular emphasis upon the use of assessment techniques in the middle level classroom as an educational decision-making tool.

MLED 3072: Diversity in the Classroom

Prerequisites: Admission to Stage II of the Middle Level Teacher Education Program.

A study of the major areas of exceptionalities including the learning disabled, mentally retarded, physically handicapped, and the gifted, and their special needs in a school program.

MLED 3102: Reading Through Literature in the Middle Ages

Prerequisites: Admission to Stage II of the Middle Level Teacher Education Program.

A study of the development and source of literature for the middle childhood/early adolescent student. Emphasis will be on integrating literature across the curriculum and on methods of encouraging reading as a lifelong pleasurable pursuit.

MLED 4004: Middle Level Curriculum and Pedagogy

Prerequisites: Admission to Stage II of the Middle Level Teacher Program.

A study of the developmental curriculum, instruction and pedagogy for teaching the middle level student. Emphasis will be on an interdisciplinary approach to curriculum design.

MLED 4013: Teaching the Young Adolescent

Prerequisites: Hold ECED P-4 licensure and passing Praxis II score on Middle Childhood Generalist test or permission of Instructor.

A study of developmentally appropriate curriculum, instruction and pedagogy for teaching the young adolescent with understanding of the historical perspective of middle schools and programs.

MLED 4023: Guided Field Experiences

Prerequisites: Admission to Stage II of the Middle Level Teacher Education Program.

Co-requests: MLED 3012 and MLED 3034

MLED 4023 Guided Field Experiences is a series of 45 hours of observation, participation, and teaching experiences ranging from individual to large group settings conducted in selected middle level settings designed to prepare the teacher candidate for a smooth transition to internship in a clinical setting. A survey of school law designed to give teacher candidates an awareness of legal rights and responsibilities of teachers, students, and public schools is presented at the beginning of the course before students begin practicum hours.

MLED 4033: Young Adolescent Growth and Development

Prerequisites: Hold ECED P-4 licensure and passing Praxis II score on Middle Childhood Generalist test or permission of instructor.

Prospective middle level teachers will study the educational implications of the developmental period of the young adolescent. An emphasis is placed on developmental characteristics of the young adolescent highlighting the role of the middle level teacher in promoting the healthy development of the young adolescent.

MLED 4043: Diversity in the Middle Level Classroom

Prerequisites: Hold ECED P-4 licensure and passing Praxis II score on Middle Childhood Generalist test or permission of instructor.

Prospective middle level teachers will study the educational implications of the economic, cultural, racial and intellectually diverse middle level classroom.

MLED 4912: Internship

Prerequisites: Admission to and Internship.

(Twelve hour course) MLED 4912 Internship is a minimum of fifteen weeks of reflective clinical internship at the middle level. In a select setting under supervision of experienced middle level professionals, teacher candidates will prepare, facilitate, and evaluate an appropriate curriculum experience for instruction of the early adolescent.

Fee \$100.00.

Military Science ROTC Course Descriptions

(For further information concerning military science courses, contact SSG Scott Wood at (479) 498-6069.)

MS 1101: Leadership I

Offered: Fall

Introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, physical/mental fitness (resiliency training) related to leadership, officership, and the Army profession. Focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a big picture of understanding the ROTC program, its purpose in the Army, and its advantages for the student.

Lecture/Laboratory

MS 1111: Leadership II

Offered: Spring

Overviews leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership attributes and core leader competencies in the context of practical, hands-on, and interactive exercises. Continued emphasis is placed on recruitment and retention of Cadets. Cadre role models and the building of stronger relationships among the Cadets through common experience and practical interaction are critical aspects of the MS 1111 experience.

Lecture/Lab

MS 2312: Military Organization/Tactics I

Offered: Fall

Explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework (trait and behavior theories). Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership attributes and core leader competencies through an understanding of Army rank, structure, duties and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier's Creed and Warrior Ethos.

Lecture/Lab

MS 2402: Military Organization/Tactics II

Offered: Spring

Examines the challenges of leading tactical teams in the operational environment. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. MS 2402 prepares Cadets for MS 3503. Cadets develop greater self awareness as they assess their own leadership styles and practice communication and team building skills. Case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.

Lecture/Lab

MS 3503: Advanced Leadership and Tactics I

Offered: Fall

Challenges Cadets to study, practice, and evaluate adaptive leadership skills as they are presented with challenging scenarios related to squad tactical operations. Cadets receive systematic and specific feedback on their leadership attributes and actions. Based on such feedback, as well as their own self-evaluations, Cadets continue to develop their leadership and critical thinking abilities. Focus is on developing Cadets' tactical leadership abilities to enable them to succeed at ROTC's summer Leadership Development and Assessment Course (LDAC).

Lecture/Lab.

MS 3603: Advanced Leadership and Tactics II

Offered: Spring

Continuation of MS 3503. Course uses increasingly intense situations applying team leadership challenges to build Cadet awareness and skills in leading tactical operations at the small unit level. Cadets review aspects of full spectrum operations. They also conduct military briefings and develop proficiency in the operation orders process. Focus is on exploring, evaluating, and developing skills in decision-making, persuading, and motivating team members in the contemporary operating environment (COE). MS 3603 Cadets are evaluated on what they know and do as leaders as they prepare to attend the ROTC summer Leader Development Assessment Course (LDAC).

Lecture/Lab

MS 4013: United States Military History

A study of the American military from its colonial origins to the present, including the development of the military establishment and its relationship with American society.

MS 4703: Applied Leadership and Management I

Offered: Fall

Transitions the focus of student learning from being trained, mentored and evaluated as an MS III Cadet, to learning how to train, mentor and evaluate underclass Cadets. MS IV Cadets will learn the duties and responsibilities of an Army staff officer and apply the Military Decision Making Process (MDMP), the Army Writing Style and the Army's Training Management and METL Development processes during weekly Training Meetings to plan execute and assess battalion training events. Cadets will learn how to safely conduct this training by understanding and employing the Composite Risk Management Process. MS IV Cadets will learn how to use the Comprehensive Soldier Fitness (CSF) program to reduce and manage stress. Cadets will learn about the special trust proposed by the U .S. Constitution to Army Officers - a trust above and beyond other professions. Cadets will learn Army Values and Ethics and how to apply them to everyday life as well as in Operating Environments. The MS IV Cadet will learn about the officer's role in the Uniform Code of Military Justice, with Counseling Subordinates, Administrative Discipline and Separations, and methods for Officer Career Management.

Lecture/Lab

MS 4803: Applied Leadership and Management II

Offered: Spring

Continuation of MS 4703. Explores the dynamics of leading Soldier's in Full Spectrum Operations in the Contemporary Operating Environment (COE). Cadets examine differences in Customs and Courtesies, Principles of War, and Rules of Engagement in the face of Terrorism. They also explore aspects of interacting with Non-Government Organizations, Civilians on the Battlefield, and Host Nation Support and explore Counterinsurgency Operations. Cadets will learn what Support Services are available to assist Soldiers and their families in times of need such as; Red Cross, CFC, AER, etc. MS IVs will develop and present a Battle Analysis and participate in a Staff Ride at an historic military site. The course places significant emphasis on preparing Cadets for their first unit of assignment. It uses case studies, scenarios, and "What Now, Lieutenant?" exercises to prepare Cadets to face the complex ethical and practical demands of leading as commissioned officers in the United States Army.

Lecture/Lab

MS 4903: Advanced Officership I

Prerequisites: MS 3503 or MS 4703 and approval of the Professor of Military Science.

Advanced Officership I is a special problems course on professional military related topics. The course will emphasize personal and professional goals for officers and related tactics involved in military history.

MS 4913: Advanced Officership II

Prerequisites: MS 3503 or MS 4703 and approval of the Professor of Military Science.

Advanced Officership II is a special problems course on professional military topics specifically related to the branches of the US Army. The course will emphasize personal and professional goals for each officer by enhancing their knowledge of their assigned branch and component.

Music Course Descriptions

MUS 1000,3000: Recital Attendance

Offered on a pass/fail basis. Students are required to attend a specified number of recitals each semester and must pass at least six semesters to receive the B.A. degree in music or bachelor of music education.

MUS 1151: Class Guitar I

Prerequisite: Music major

Introductory class instruction in folk and popular styles of guitar playing with emphasis on guitar as a teaching tool for classroom music instruction.

MUS 1241: Italian Diction

Prerequisite: Vocal major

Co-requisite: MUS 1232

Study of the rules of pronunciation for Italian lyric diction.

MUS 1321: Jazz Piano

Offered: As needed

Prerequisites: MUS 1713, MUS 1201 or 1441, or instructor approval.

Materials and practices for typical jazz keyboard playing.

One hour per week.

MUS 1431: Class Piano

Non music majors. For students who have little or no music reading skills, this course concentrates on basic piano skills while learning to read music. At the end of the course students will play pieces using a chord based approach in several keys and styles.

MUS 1441: Class Piano I, II, III, and IV

Prerequisite: Music major

A development of the fundamental skills of the piano, emphasizing those aspects most useful to non piano majors. A knowledge of chords is stressed, as is sight reading, improvising, playing in all keys and harmonizing melodies. The second year of class piano extends these skills adding the reading of multiple score parts, modulation, harmonizing with secondary chords, improvising in various composers' styles, playing a wide variety of literature, and accompanying.

\$10 fee.

MUS 1703: Music Fundamentals

Offered: As needed

Music fundamentals to be included are reading pitch and rhythm, basic notation, rudimentary music theory information about scales, harmony, dynamics, tempo; playing a melody instrument; rudimentary ear training, music composition, and music listening skills.

MUS 1713: Theory I

Co-requisites: MUS 1731, 1741

Study of scales, triads, seventh chords, diatonic harmonies, simple modulation. Introduction to small forms.

MUS 1723: Theory II

Co-requisites: MUS 1731, 1741

Study of scales, triads, seventh chords, diatonic harmonies, simple modulation. Introduction to small forms.

MUS 1731: Ear Training I

The elements of music fundamentals, both written and aural.

MUS 1741: Ear Training II

The elements of music fundamentals, both written and aural.

MUS 2003: Introduction to Music

An overall view of music history from Medieval to Contemporary times with a focus on relating musical happenings and concepts to the other arts.

MUS 2201: Accompanying Seminar

Prerequisites: Piano major or permission of instructor.

Development of basic accompanying techniques. Class coaching and presentation one hour weekly, plus assigned accompanying responsibilities in a variety of media.

Note: May be repeated three times.

MUS 2241: German Diction

Prerequisite: Vocal major

Co-requisite: MUS 1232

Study of the rules of pronunciation for German lyric diction.

MUS 2251: French Diction

Prerequisite: Vocal major

Co-requisite: MUS 1232

Study of the rules of pronunciation for French lyric diction.

MUS 2441: Class Voice

Offered: Fall

Prerequisite: Music major

Development of basic vocal techniques through group participation and solo singing. Emphasis is placed on understanding of vocal pedagogy.

Supervised practice two hours per week.

MUS 2451: Class Voice

Offered: Fall

(Non music majors) Development of basic vocal techniques through group participation and solo singing.

Supervised practice two hours per week.

MUS 2713: Theory III

Co-requisites: MUS 2731, 2741

More advanced harmonic concepts, modulation, chromatic harmonies. Further study of larger forms.

MUS 2723: Theory IV

Co-requisites: MUS 2731, 2741

More advanced harmonic concepts, modulation, chromatic harmonies. Further study of larger forms.

MUS 2731: Ear Training III

Further work in more advanced ear training and sight singing.

MUS 2741: Ear Training IV

Further work in more advanced ear training and sight singing.

MUS 3281: Secondary Instrumental Methods and Materials I

Laboratory experience in conducting and performance of materials appropriate to teaching band in the public school.

MUS 3321: Practice of Improvisation

Prerequisites: Successful completion of MUS 3332 or instructor approval.

Laboratory experience in improvisation in all jazz styles.

Note: This course may be repeated for credit.

MUS 3322: Theory of Improvisation (Jazz)

Prerequisites: MUS 1713, 1723, 1441, and/or instructor approval.

Music theory, materials and practices for improvising or extemporaneous playing.

Note: May not be repeated for credit. May not be taken for credit after completion of MUS 3332.

One hour class, two hour laboratory per week.

MUS 3332: Theory of Improvisation (Jazz)

Prerequisite: Successful completion of MUS 3322

Advanced music theory, materials and practices for improvising or extemporaneous playing.

Note: May not be repeated for credit.

One hour class, two hour laboratory per week.

MUS 3401: Brass Instruments

Prerequisite: Music major

A study of the instruments of the brass family to the extent that scales and grade one and two solos can be played on selected instruments.

Class two hours, practice two hours.

MUS 3421: Woodwind Instruments, Double Reeds

Prerequisite: Music major

A study of playing and teaching techniques of the woodwind family (oboe, bassoon). Playing of selected instruments will be developed through major scales and grade one and two solos or methods.

MUS 3431: Woodwind Instruments, Single Reeds

Prerequisite: Music major

A study of playing and teaching techniques of the woodwind family (flute, clarinet, saxophone). Playing of selected instruments will be developed through major scales and grade one and two solos or methods.

MUS 3441: Instrumental Concepts

Prerequisites: Vocal or Keyboard major

A study designed to give non-instrumental music education majors functional knowledge of band and orchestral instruments.

MUS 3442: Piano Pedagogy

Offered: Spring

A study of pedagogical principles involved in the teaching of private and class piano, with emphasis on outside reading, class discussion, and observation of actual lessons and classes.

MUS 3481: Stringed Instruments

Prerequisite: Music major

A study of instruments of the string family (violin, viola, cello, and string bass) with emphasis on the fundamentals of good tone production and bowing techniques to the extent that scales and grade one and two orchestra music can be played on selected instruments.

MUS 3692: History of Music III

Prerequisite: MUS 2723, music major or permission of instructor.

A study of 20th century music. Includes one unit of non-western music.

MUS 3702: Music Educational Technology

Prerequisites: Music major with junior standing.

Applications of Technology in Music Education. An overview of current technologies to enhance music instruction, assessment, and productivity by the music educator.

MUS 3712: Counterpoint

Offered: As needed

Prerequisite: MUS 2723

The contrapuntal techniques and forms of the Baroque era. Analysis of Canons, two and three part Inventions, and fugues of J.S. Bach plus written exercises in two voice counterpoint.

MUS 3762: Instrumental and Choral Arranging

An introduction to scoring for instrumental and choral groups to meet the needs of adapting music to meet the needs and ability levels of school performing groups and classroom situations.

MUS 3771,3772,4771,4772: Composition

Offered: As needed

Prerequisites: 16 hours of music theory and senior standing or consent of instructor.

The study of basic compositional techniques of twentieth-century works and completion of composition project.

MUS 3773: History of Music I

Offered: Fall

Prerequisites: MUS 2723 (Theory IV) or permission of instructor.

A study of Western Art music from ancient civilization to A.D. 1750.

MUS 3802: Principles of Conducting

Offered: Fall

Principles and practices of conducting; a study of music terminology and transpositions; development of baton techniques based on the practice of outstanding choral and instrumental conductors.

MUS 3821: Secondary Choral Methods and Materials I

Choral conducting techniques, tone and diction styles and interpretation, rehearsal techniques, programs and concerts, planning and organization, and service information. Conducting of student ensembles and organizations. Methods and materials I will include review of literature for large and small ensembles appropriate for middle school, junior high, and smaller high school teaching situations.

MUS 3853: Music in the Elementary Classroom

Prerequisites: MUS 2723, successful completion of Keyboard Exit Exam, and SEED 2002 or permission of instructor.

A study of current practices, methods, and materials for teaching general music to elementary school children with emphasis on curriculum development and diversity in the classroom.

MUS 4001: Senior Recital

Prerequisite: Six semesters of major applied study.

Required of all music education majors.

\$175 Applied Music fee.

MUS 4201: Accompanying Seminar

Prerequisite: Two semesters of MUS 2201 and/or permission of instructor.

Advanced accompanying techniques for piano majors. Class coaching and presentation one hour weekly, plus assigned responsibilities in a variety of media.

Note: May be repeated three times.

Note: May substitute for required 3000 level hour of major ensemble enrollment with assignment by instructor to successfully accompany major ensemble or recital.

MUS 4281: Secondary Instrumental Methods and Materials II

Laboratory experience in conducting and performance of materials appropriate to teaching band in the public school.

MUS 4461: Percussion Instruments

Prerequisite: Music major

A study of the instruments of the percussion family to the extent that scales and/or rudiments and grade one and two solos can be played on selected instruments. Designed as a practical preparation for public school teachers.

Two hours weekly.

MUS 4701: Special Methods in Music

Offered: Spring

Prerequisites: Admission to Stage II of the Teacher Education program.

Intensive on campus exploration of the principles of curriculum construction, teaching methods, use of community resources, evaluation as related to teaching music, and dealing with diversity in the classroom.

MUS 4712: Form and Analysis

Offered: Fall

Prerequisite: MUS 2723

A study of the standard forms of the Classical period with emphasis on instrumental forms and genres developed in the period 1750-1825 and the continuation and expansion of those forms in the nineteenth century.

MUS 4803: History of American Music: Jazz and Folk

Open to all students. An in-depth study of folk music and the relationship between these forms and American life. Research, aural activity, and analysis are used to explore a variety of musical forms, composers, and performers.

MUS 4811: Keyboard Literature

Offered: Fall

A survey of piano or organ literature with emphasis on historical development, analysis of selected compositions, and listings of suitable pedagogical materials.

MUS 4821: Secondary Choral Methods and Materials II

Choral conducting techniques, tone and diction styles and interpretation, rehearsal techniques, programs and concerts, planning and organization, and service information. Conducting of student ensembles and organizations. Methods and materials II will include a review of historically important choral works and the music of the master composers of each musical epoch. Sight singing methods for group sight reading will be reviewed.

MUS 4832: Vocal Solo Literature/Pedagogy

Offered: Spring

Prerequisite: Junior standing

Introduction to and comparison of vocal solo literature and the teaching of vocal technique.

MUS 4853: Music of the World's Peoples

Cross-listed: ANTH 4853

Open to students in all majors. A survey of predominantly non-Western world music cultures with attention to sonic structures, musicians, musical instruments, and socio-cultural contexts of music making. Listening emphasized.

MUS 4883: Workshop in Music

Offered: As needed

Prerequisite: Permission of instructor

Course with variable credit designed to meet specific needs of participants. Each credit hour will require fifteen clock hours of instruction.

MUS 4951,4952,4953,4954: Undergraduate Research in Music

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

MUS 4972: Marching Band Techniques

Offered: Fall

Prerequisite: Music majors

A study of the problems, practices, techniques, and the organization and administration of the marching band.

MUS 4991,4992,4993,4994: Special Problems in Music

Offered: As needed

Prerequisites: Senior standing and permission of the instructor.

Additional work in an area of the student's choice under the direction of the faculty member competent in that area.

Music Course Descriptions

In numbering ensemble courses, the first digit, numeral 1, is used for freshman and sophomore level courses, the numeral 3 for junior and senior-level courses.

MUS 1301,3301: Opera Workshop

Prerequisite: Permission of instructor

The course of study will involve selected scenes from standard opera literature prepared for dramatic presentation. Research will be required pertaining to the historical setting, appropriate costumes, and mannerisms of the period being studied. Staging techniques and set building will be included as deemed necessary to each presentation.

MUS 1311,3311: Jazz Ensemble

Membership selected by audition. Study and performance of big band jazz styles from the 1930's to present.

MUS 1501,3501: Band

Open to students who can satisfy audition requirements. Marching Band, fall semester, or permission of instructor is a prerequisite for Concert Band, spring semester. Fall semester stresses marching band. Spring semester stresses symphonic and concert bands in the study and performance of quality literature.

MUS 1511,3511: Brass Choir

Membership selected by audition. Study and performance of representative brass literature.

Rehearsal 3 hours weekly.

MUS 1521,3521: Woodwind Ensembles

Open to all students. Membership selected by audition.

Two hours weekly.

MUS 1531: Brass Ensembles

Open to all students. Membership selected by audition.

Two hours weekly.

MUS 1541: Percussion Ensembles

Open to all students. Membership selected by audition.

Two hours weekly.

MUS 1551: String Ensembles

Open to all students. Membership selected by audition.

Two hours weekly.

MUS 1571: University Choir

Open to all students. A select vocal group of approximately sixty members selected by audition. Study and performance of choral literature of all periods.

MUS 1581: Chamber Choir

Open to all students by audition. A select choral ensemble of approximately sixteen voices specializing in the performance of chamber choral music from all historical periods.

Note: Two or three concerts are presented on campus each semester. Off-campus performances include tours and public relations functions for the university.

MUS 1611,3611: Music Theatre Workshop

Prerequisite: Permission of instructor

Selected songs from standard musical theatre literature will be prepared for public performance with an emphasis on popular professional performance techniques.

Note: Credit will be given for one leading part or for a series of supporting parts.

Two hours weekly.

MUS 1621,3621: Music Theatre Practicum

Offered: As needed

Prerequisite: Permission of instructor

Credit will be given for participation that results in a public performance of a major production. Vocal, instrumental, and/or audiovisual technological participation will be accepted.

A minimum of 28 hours participation is required.

MUS 1631,3631: Symphonic Wind Ensemble

Prerequisite: Audition

The Symphonic Wind Ensemble is the premiere wind-performing ensemble at Arkansas Tech University performing a balanced mix of traditional and new repertoire. Emphasis is placed on the highest artistic standards, professionalism in performance excellence while offering pedagogy for the advanced musician.

Membership is determined by an annual audition and is open to all majors.

MUS 1681,3681: Concert Chorale

Open to all students by audition. A select choral ensemble of choral music from all historical periods.

Two or three major concerts are presented each semester.

MUS 3531: Brass Ensembles

Open to all students. Membership selected by audition.

Two hours weekly.

MUS 3541: Percussion Ensembles

Open to all students. Membership selected by audition.

Two hours weekly.

MUS 3551: String Ensembles

Open to all students. Membership selected by audition.

Two hours weekly.

MUS 3571: University Choir

Open to all students. A select vocal group of approximately sixty members selected by audition. Study and performance of choral literature of all periods.

MUS 3581: Chamber Choir

Open to all students by audition. A select choral ensemble of approximately sixteen voices specializing in the performance of chamber choral music from all historical periods.

Note: Two or three concerts are presented on campus each semester. Off-campus performances include tours and public relations functions for the university.

Music Course Descriptions

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior-level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1001,1002,3001,3002,3003: Applied Music - Trumpet

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1011,1012,3011,3012,3013: Applied Music - French Horn

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1021,1022,3021,3022,3023: Applied Music - Trombone

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1031,1032,3031,3032,3033: Applied Music - Euphonium

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1041,1042,3041,3042,3043: Applied Music - Tuba

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1051,1052,3051,3052,3053: Applied Music - Clarinet

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1061,1062,3061,3062,3063: Applied Music - Oboe

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1071,1072,3071,3072,3073: Applied Music - Flute

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1081,1082,3081,3082,3083: Applied Music - Saxophone

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1091,1092,3091,3092,3093: Applied Music - Bassoon

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior

level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1101,1102,3101: Applied Music - Violin

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1111,1112,3111: Applied Music - Viola

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1121,1122,3121: Applied Music - Cello

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1131,1132,3131: Applied Music - Bass

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1141,1142,3141,3142,3143: Applied Music - Percussion

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1201,1202,3201,3202,3203: Applied Music - Piano

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1211,1212,3211,3212,3213: Applied Music - Harpsichord

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1221,1222,3221,3222,3223: Applied Music - Organ

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1231,1232,3231,3232,3233: Applied Music - Voice

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit.

Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education.

To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

MUS 1601,3601: Orchestral Repertoire

Prerequisite: Permission of instructor

A study of the landmarks of orchestral repertoire for winds and percussion sections through the preparation and rehearsal of the literature.

Note: Each course may be repeated three times.

Museum Course Descriptions

MUSM 4403: Interpretation/Education through Museum Methods

Cross-listed: ANTH 4403, HIST 4403

Prerequisites: Senior or Graduate standing, or permission of instructor.

Museum perspectives and approaches to care and interpretation of cultural resources, including interpretive techniques of exhibit and education- outreach materials, and integrating museum interpretation/education into public school and general public programming. Class projects focus on special problems for managing interpretive materials in a museum setting.

MUSM 4951,4952,4953,4954: Undergraduate Research in Museum

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

Nursing Course Descriptions

NUR 1001: Orientation to Nursing

A one hour elective course for students interested in pursuing nursing as a professional career. The student is introduced to the history of nursing, issues and trends, basic nursing education, advanced education for nurses, and nursing career opportunities. Students interested in nursing or a career in science are encouraged to take this course during the fall semester of their freshman year.

NUR 2023: Introduction to Professional Nursing

Prerequisite: MATH 1113 and permission of Admission and Progression Committee.

A non clinical, three hour course which introduces the student to selected basic concepts in professional nursing. Purpose of the course is to introduce nursing concepts to nursing majors. The course focuses on nursing as a caring profession, nurses' roles and functions, ethics, standards, legal aspects, holism, wellness, health care settings, communication, teaching/learning, critical thinking, and the nursing process. The Conceptual Framework and Philosophy of Tech's Department of Nursing will be explored.

Testing fee \$122

NUR 2303: Nutrition

Principles of normal nutrition at all stages of the life cycle are emphasized. Growth and development needs are incorporated into the maintenance, restoration of nutritional health, and in the prevention of nutritional deficit. Exploration is conducted of the social, religious, and cultural factors which affect the family's nutritional health.

NUR 3003: Alternative Therapies

Prerequisite: Admission to Upper Division Nursing or consent of instructor.

This course focuses on the principles and concepts of alternative therapies for clients of all ages in a variety of health care settings. Alternative therapies are explored in relationship to conventional medicine in the prevention of negative health conditions, promotion of health practices, and support and restoration of wellness.

NUR 3102: Nursing Skills Theory for Medical Interpreters I

Prerequisite: Open to students majoring in Spanish with a concentration in Medical Interpretation.

The course provides the student with theory of basic psychomotor and math nursing skills.

NUR 3103: Nursing Skills I

Prerequisite: Admission into upper division nursing courses.

The course provides the student with theory and guided practice of basic psychomotor and math nursing skills in a multimedia simulated laboratory setting.

Lecture 2 hours. Laboratory 3 hours equal to one credit hour. \$60 course fee.

NUR 3204: Theories and Concepts in Nursing I

Prerequisites: NUR 2023, 3103, 3303, 3803 and admission into upper level junior nursing courses.

Co-requisite: NUR 3404

This course is an introduction to the cognitive framework of the curriculum which emphasizes holistic man, environment, and nursing as an interacting system. The course focuses on bio psycho social and spiritual behaviors as indicators of health throughout the life cycle. The nursing process and the scientific method of problem solving are presented as systematic approaches to nursing care. Further emphasis is placed on assessment of health needs and health practices of individuals in structured episodic health care settings. Beginning concepts of professionalism and care of clients with self-limiting alterations to health are integral parts of this course.

Lecture 4 hours. \$91 testing fee.

NUR 3213: Care of the Older Adult

Prerequisites: NUR 3103, NUR 2023, and PSY 3813

This course will include a study of communication with individuals, families and groups. It will also provide the foundational basis for the professional care of older adults and their families. Care of the older adult introduces trends, theories and multidimensional changes of aging and addresses issues related to wellness, health promotion, and disease prevention in older adults.

NUR 3302: Health Assessment for Medical Interpreters

Prerequisite: NUR 3102

The student uses the nursing process to assess the client by the utilization of observation, palpation, percussion, and auscultation skills. The language of Health Assessment is taught and methods of proper documentation are emphasized. The course provides guidance in specific assessment techniques and enables the student to recognize normal findings throughout the life cycle.

NUR 3303: Health Assessment

Prerequisite: Departmental permission or admission to upper division.

The student uses the nursing process to assess the client by the utilization of observation, palpation, percussion, and auscultation skills. The language of Health Assessment is taught and methods of proper documentation are emphasized. The course provides guidance in specific assessment techniques and enables the student to recognize normal findings throughout the life cycle. The student collaborates with members of the healthcare team in the sharing of health findings in order to make a specific nursing diagnosis.

Lecture 2 hours. Laboratory 3 hours equal to one credit hour. \$10 laboratory fee.

NUR 3402: Pharmacology I

Prerequisites: NUR 2023 and 3103

This course focuses on the relationships between the action of drugs, their effects and the contraindications for their administration. The relationship between specific patient needs and the type of drugs that would be effective to meet those needs will be analyzed. The nursing care related to each type of drug and the rationales for care will be included.

NUR 3404: Practicum in Nursing I - Nursing the Individual Client

Prerequisites: NUR 2023, NUR 3103, and NUR 3303

Co-requisite: NUR 3204

Practicum facilitating the integration, synthesis, and application of theories, concepts, and psychomotor nursing skills taught in NUR 3103, 3204, 3304 and 3513. The student uses maintenance nursing behaviors to assist individuals to reach functional adaptation.

12 Clinical hours equal to 4 credit hours. \$20 laboratory fee.

NUR 3503: End-of-Life Care

This course is designed to offer basic skills and knowledge needed to recognize and intervene with a client at the end of life. Emphasis is to implement the nursing process with clients at the end of life. Students will apply concepts, theories, principals and techniques gained from their general education and previous nursing courses.

NUR 3513: Nursing Skills II

Prerequisite: NUR 3103

A continuation of NUR 3103. A guided practice of intermediate level theory and skills in a multimedia simulation laboratory.

Lecture 1 hour. Laboratory 3 hours equal to one credit hour. \$20 course fee.

NUR 3603: Personal and Professional Self-Care

Prerequisite: Admission to Upper Division Nursing or consent of instructor.

This course provides the RN-BSN student with the opportunity to assess one's own current health, lifestyle, and professional career and consider where one is, where one has been, and where one wants to be in the future. This class will provide a mechanism for change by actively involving the student in a self-analysis and establishment of a course of action for changes that are assessed to be needed.

NUR 3606: Theories and Concepts in Nursing II

Prerequisites: NUR 3204, 3402, 3404, 3513

Co-requisite: NUR 3805

This course, utilizing the nursing process, builds upon NUR 3204 and includes the bio psycho social and spiritual needs of the family. The course emphasizes family development, the childbearing experience, and the child's unique response to the internal and external environment.

Lecture 6 hours. \$91 testing fee.

NUR 3703: Nursing Pharmacology

Prerequisites: NUR 3204, 3304, 3404, 3513

This course focuses on the relationships between the action of drugs, their effects and the contraindications for their administration. The relationship between specific patient needs and the type of drugs that would be effective to meet that need will be analyzed. The nursing care related each type of drug and the rationales for the care will be included.

NUR 3802: Pharmacology II

Prerequisites: NUR 3204, NUR 3402, NUR 3404

This course is a continuation of Pharmacology I and focuses on the relationships between the action of drugs, their effects and the contraindications for their administration. The relationship between specific patient needs and the type of drugs that would be effective to meet those needs will be analyzed. The nursing care related to each type of drug and the rationales for the care will be included.

NUR 3803: Applied Pathophysiology

Cross-listed: BIOL 3803

Prerequisites: BIOL 2014 and BIOL 3074

This course focuses on the mechanisms and concepts of selected pathological disturbances in the human body. Emphasis is placed on how the specific pathological condition effects the functioning of the system involved, as well as its impact on all other body systems.

NUR 3805: Practicum in Nursing II - Nursing the Family

Prerequisites: NUR 3204, 3402, 3404, 3513

Co-requisites: NUR 3606

A practicum course which facilitates the integration, synthesis, and application of the theories, concepts, and skills taught in NUR 3103, NUR 3513, NUR 3606 and NUR 3703.

15 clinical hours equal to 5 credit hours. \$20 laboratory fee.

NUR 3892: Clinical Competency I

This course is required to demonstrate competence for practicum/laboratory courses as described in the progression policy of the Department of Nursing. For students requiring demonstration of competence, NUR 3892 would be taken the same semester the student is repeating an accompanying theoretical course. Students who have been absent from the upper division of the nursing curriculum must prove clinical/laboratory competence at the level of the last practicum/laboratory course they successfully completed before they can re-enter upper division.

\$20 laboratory fee.

NUR 4202: Selected Topics

Prerequisite: Departmental permission

This course is designed to offer a selection of topics which will meet student needs and interests. The course provides the student with the opportunity to expand and improve knowledge in a carefully selected topic of relevance to nursing and/or health care. General demand will play a part in the topics offered.

Note: May be repeated for credit if course content differs.

NUR 4206: Theories and Concepts in Nursing III

Prerequisites: NUR 3606, 3802, 3805

The course focuses on the prevention of illness, maintenance of health and the restoration of wellness in the care of clients and families experiencing major dysfunctions in adaptation. The nursing process is the methodology used to assist clients and families toward achieving optimal health. Principles of growth and development throughout the life cycle, utilization of research findings, principles of communication in crisis, and the role of the nurse in crises situations are included in the course. Psycho social theories and concepts relevant to the care of the emotionally disturbed client and family are explored in depth.

Lecture 6 hours. \$91 testing fee.

NUR 4303: Nursing Research

Prerequisites: Admission to Upper Division Nursing, senior standing or consent of instructor.

This introductory research course focuses on the validity and applicability of research findings for the improvement of nursing practice. Emphasis is on scientific inquiry and the role of the nurse as an intelligent consumer of research.

NUR 4405: Practicum in Nursing III -- Nursing Clients in Crisis

Prerequisites: NUR 3606, 3802 and 3805

Co-requisites: NUR 4206

This is a clinical nursing course which provides the opportunity for the integration of theories and concepts in the application of the nursing process in the care of the emotionally and/or physically dysfunctional client, family or group who are undergoing adaptation difficulties due to major deviations from wellness. The health care is delivered according to scientific principles, research findings, and accepted standards of care. Nursing behaviors and nursing roles are emphasized which are appropriate to the level of the students. Learning experiences are gained through caring for clients.

15 clinical hours equal to 5 credit hours. \$20 laboratory fee.

NUR 4502: Principles of ACLS

Prerequisite: Departmental permission or consent of the instructor.

This course is designed to offer the student the knowledge and skills necessary to provide appropriate early treatment for cardiopulmonary arrest in the adult patient utilizing current ACLS protocols as guidelines for emergency care.

NUR 4606: Theories and Concepts in Nursing IV

Prerequisites: NUR 4206, 4303, and 4405

The course focuses on the prevention of illness, maintenance of health, and the restoration of wellness of individuals, families, and communities. Concepts of epidemiology, prevention, decision making, and collaboration are utilized to organize and deliver distributive nursing care in complex situations. Theories and techniques of management are studied which relate to self, team members, and care of groups of clients. The emerging role of the professional nurse is explored.

Lecture 6 hours. \$91 testing fee.

NUR 4804: Practicum in Nursing IV - Nursing in the Community

Prerequisites: NUR 4206 and 4405

Co-requisites: NUR 4606 and 4903

A clinical course which integrates theories and concepts from all nursing courses and provisions for practice in predominantly distributive healthcare settings. Emphasis is on the utilization of the nursing process, the prevention of illness, maintenance of health, and the restoration of wellness of individuals, families, and communities, experiencing adaptation to complex health problems. Management skills and techniques are utilized in the delivery of holistic nursing care. Activities are provided which facilitate the role transition from student to professional nurse. Clinical experiences occur in a variety of distributive healthcare settings.

12 clinical hours. \$20 laboratory fee. \$64 testing fee.

NUR 4892: Clinical Competency II

This course is required to demonstrate competence for practicum/laboratory courses as described in the progression policy of the Department of Nursing. For students requiring demonstration of competence, NUR 4892 would be taken the same semester the student is repeating an accompanying theoretical course. Students who have been absent from the upper division of the nursing curriculum must prove clinical/laboratory competence at the level of the last practicum/laboratory course they successfully completed before they re-enter upper division.

\$20 laboratory fee.

NUR 4903: Synthesis of Clinical and Theoretical Nursing

Synthesis of clinical and theoretical nursing knowledge occurs throughout the course. Students will be required to use all previously learned clinical and theoretical knowledge in the management of a diverse client population for which they are planning and providing a full-range of needed health care. Theory and clinical application of nursing knowledge must be integrated in order to prioritize, delegate, and ensure the delivery of comprehensive health care to clients in a variety of institutional and community-based settings. Students work closely with designate professional nurse preceptors and faculty in carrying out these learning activities.

\$50 testing fee.

NUR 4951,4952,4953,4954: Undergraduate Research in Nursing

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

NUR 4991,4992,4993,4994: Independent Study

Prerequisites: Departmental permission or NUR 4303

Faculty and student collaborate on the selection, development, and evaluation of an individual project or topic in an area of nursing or health.

15 clock hours per credit hour.

Nursing for Registered Nurses Course Descriptions

NURN 4002: Nursing Informatics

Prerequisite: Admission to Upper Division or consent of instructor.

This practicum course establishes competency in using information resources within a professional nursing context. The course incorporates utilizing online resources available at ATU, Arkansas state, federal, and organizational web sites. In addition to becoming familiar with these resources, the student will identify and utilize online health-related resources.

NURN 4003: Scope of Professional Practice

Prerequisite: Admission to Upper Division or consent of instructor.

This course will enable the RN-BSN student to recognize how history and modern economic forces have shaped current professional practice. The student will examine the development of Nurse Practice Acts and how states use these Acts to manage professional licenses and scope of professional practice. The student will examine the variety of roles and setting in which the professional nurse can work.

NURN 4013: Laws, Ethics, and Issues in Professional Nursing Practice

Prerequisite: Admission to Upper Division or consent of instructor.

This course will enable the RN-BSN student to examine the legal, ethical, and policy-making traditions that frame the health care industry. This course will emphasize the integration of personal values, institutional cultures, law, and ethical decision-making in professional practice.

NURN 4024: Community Health Nursing

Prerequisite: Admission to Upper Division or consent of instructor.

This course will introduce the RN-BSN student to the concepts and principles relevant to the promotion, support, and restoration of health for clients of all ages in a variety of settings with particular emphasis upon the health of populations or groups. The student will perform a community assessment which involves the collection and analysis of data from a selected community to plan appropriate educational interventions.

NURN 4034: Leadership and Management in Professional Practice

Prerequisite: Admission to Upper Division or consent of instructor.

This course will enable the RN-BSN student to recognize the principles and concepts of change theory and leadership/management strategies in professional practice. The student will examine how current leadership and management strategies are implemented within the health care settings and how effective and efficient these strategies are to health care delivery and consumer health. Management and leadership issues significant to nurse managers will be examined and discussed.

NURN 4045: Professional Practicum Synthesis

Prerequisite: NURN 4024 and admission to Upper Division or consent of instructor.

This practicum course enables the RN-BSN student to integrate the skills and insights gained from this program in a population or group-based application. This capstone course demonstrates the cognitive and affective growth achieved while in the RN-BSN Completion Program.

NURN 4303: Nursing Research

Prerequisite: NUR 3606, 3703, and 3805

This introductory research course focuses on the validity and applicability of research findings for the improvement of nursing practice. Emphasis is on scientific inquiry and the role of the nurse as an intelligent consumer of research.

Physical Education Course Descriptions

Academic

PE 1201: Orientation to Health, Physical Education, and Wellness Science

This course provides an introduction to the HPE/WS curriculum, as it affects the student. Emphasis will be given to resources, services and opportunities available to the student through the University, which will help him or her grow as a professional. This is a pass or fail class.

PE 2101: Methods of Teaching Team Activities

This course is designed to assist in teaching students to be skilled and knowledgeable in selected team activities. Emphasis will be placed on developing and evaluating the student's skills and knowledge.

PE 2111: Methods of Teaching Individual Activities

This course is designed to assist in teaching students to be skilled and knowledgeable in selected individual activities. Emphasis will be placed on developing and evaluating the student's skills and knowledge.

PE 2513: First Aid

Standard and advanced course in first aid. This course includes CPR instruction.

PE 2523: Foundations in Health and Physical Education

A study of history, philosophy, and principles of health and physical education in grades K 12 as applied to each area.

PE 2653: Anatomy and Physiology

Prerequisite: BIOL 1014 or permission of department head.

The structure and function of the human body with emphasis on the bodily systems important to teachers and practitioners of wellness, fitness, and physical education.

PE 3051: Methods of Teaching Fitness and Wellness Concepts

This course is designed to provide the student with knowledge needed to implement a sound fitness and wellness program that will yield the desired results. The emphasis is on teaching students how to take control of their own personal health and lifestyle habits so that they can make a deliberate effort to stay healthy and achieve the highest potential for well-being.

\$10 Tech Fit fee.

PE 3101: Methods of Teaching Rhythmic and Gymnastic Movements

Methods and activities to develop rhythm, folk dance, and gymnastic skills related to teaching physical education.

Laboratory two hours.

PE 3103: Methods of Teaching Movement Patterns and Activities for Children

Prerequisite: Admission to Stage II or permission of department head.

Methods and activities to develop basic movement patterns, primary and lead-up game skills, and knowledge related to teaching elementary physical education.

Lecture one hour, laboratory four hours.

PE 3413: Coaching Theory

The course exposes students to the theory of coaching, relevant to athletics. Emphasis is placed on organization, management, and content involved in coaching a variety of sports.

PE 3512: Coaching Strategies: Football & Baseball

Principles of coaching football and baseball, including off-season training programs, team organization, offense, defense, scouting, and use of visual aids.

One hour lecture and one hour laboratory.

PE 3522: Coaching Strategies: Basketball & Track and Field

Principles of in-season and off-season training programs and team organization for track and field. Additionally, the course is designed to provide a systematic process for teaching basketball skill development and team strategies. Emphasis on fundamental skills and drills, rules and evolution of the game, offensive and defensive strategies used by various successful coaches are introduced. Extensive use of floor demonstrations and video presentations enhance the course content.

One hour lecture and one hour laboratory.

PE 3532: Coaching Strategies: Softball and Volleyball

This course will offer information relative to the following topics for both volleyball and softball: in-season and off-season training programs, team organization, offense, defense, special situations, scouting, and use of visual aids.

One hour lecture and one hour laboratory.

PE 3573: Prevention and Care of Athletic Injuries

Prerequisites: PE 2653, 3663

Development of techniques in prevention and treatment of athletic injuries.

PE 3583: Methods and Materials in Physical Education and Recreation for Kindergarten and Elementary Grades

Prerequisite: PE 3103

Methods, materials, supervision, school problems, rhythmical activities, movements exploration, and group games for kindergarten and elementary teachers.

Lecture two hours, laboratory two hours.

PE 3603: Methods and Materials in Physical Education for Secondary Schools

Prerequisites: PE 2101, PE 2111 and admission to Stage II.

A course in program planning and techniques of teaching physical education in the secondary schools, critical analysis of methods now in use in physical education, and criteria for evaluation of programs.

Lecture two hours, laboratory two hours.

PE 3661: Laboratory Experiences in Anatomy/Physiology and Kinesiology

Prerequisite: PE 2653 or permission of department head.

The laboratory experience supplements Anatomy/Physiology and Kinesiology by providing practical experiences which enable students to bridge the gap between theory and practice.

PE 3663: Kinesiology

Prerequisite: PE 2653

Study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency and the influence of growth and development upon motor performance.

PE 4033: Basic Exercise Physiology

Prerequisites: PE 2653, 3663, and 3661, or permission of the department head.

Introduction to the basic effects of exercise on physiology of the systems of the body, and the principles of exercise prescriptions and programs.

PE 4103: Principles and Methods of Adapted Physical Education

Principles and methods of teaching special students with various types of physical and mental disabilities which require adapting the learning process.

PE 4203: Methods of Teaching Adapted Physical Education in the Schools

Prerequisites: PE 3103, PE 3583 or permission of the department head.

Principles and methods of teaching students with disabilities in the schools.

Lecture two hours, laboratory two hours.

PE 4513: Organization and Administration of Health and Physical Education

Organization and administration problems in grades K 12 to be treated as a single administrative unit.

PE 4523: Measurement and Evaluation in Health and Physical Education

Prerequisite: Admission to Stage II or permission from department head.

Research methods, measurement, and evaluation in health, physical education, and recreation with an analysis of their practical application.

PE 4701: Special Methods in Health and Physical Education

Prerequisites: Admission to student teaching phase of the teacher education program.

Co-requisite: Enrollment in SEED 4809

Intensive on campus exploration of the principles of curriculum construction, teaching methods, use of community resources, and evaluation as related to teaching health and physical education.

PE 4991,4992,4993: Special Problems in Health and Physical Education

Prerequisite: PE 4523

Open to physical education majors and minors of outstanding ability. Course content will include readings and research and the setting up and carrying out of a piece of research which will include review of literature, the problem, and conclusion.

Physical Education Course Descriptions

Activities

The activities service program of the Department of Health and Physical Education is designed for the individual who is not majoring in health and physical education. The courses are designed to develop physical skills, physical fitness, and aesthetic value for movement and experience, and to learn the rules and strategy of the activities.

Students enrolled in activity classes must furnish their own clothing for the class. The proper dress attire for the class will be shirts, shorts, and gym shoes. Students enrolled in the swimming classes must furnish their own swim suits. Students enrolled in scuba diving classes will pay an additional equipment rental fee. The fee is currently \$100 and is subject to change. Students enrolled in bowling classes will pay a \$77.50 bowling fee.

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Prerequisites: Admission to student teaching phase of the teacher education program.

Co-requisite: Enrollment in SEED 4809

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PE 4991,4992,4993: Special Problems in Health and Physical Education

Prerequisite: PE 4523

Open to physical education majors and minors of outstanding ability. Course content will include readings and research and the setting up and carrying out of a piece of research which will include review of literature, the problem, and conclusion.

Philosophy Course Descriptions

PHIL 2003: Introduction to Philosophy

A survey of basic problems in the major areas of philosophical inquiry-metaphysics, epistemology, ethics, esthetics, and philosophy of religion.

PHIL 2013: Religions of the World

An examination of the major historical religions according to their basic scripture, their historical development, and their contemporary ideas and practices.

PHIL 2043: Honors Introduction to Philosophy

Prerequisites: Admission to University Honors or permission of University Honors Director.

A survey of basic problems in the major areas of philosophical inquiry-metaphysics, epistemology, ethics, esthetics, and philosophy of religion. Special emphasis will be placed on critical thinking and in-class discussion.

PHIL 3003: Ancient Philosophy

An examination of the thought of the leading philosophers of ancient Greece and Rome - the Pre Socratics, Socrates, Plato, Aristotle, and representatives of the Stoic and Epicurean traditions.

PHIL 3013: Modern Philosophy

A survey of the history of philosophical thought and its impact upon western civilization from the Renaissance to the twentieth century.

PHIL 3023: Ethics

An introduction to the problems of formulating and validating principle definitive of "the good" in respect to ends, means, and norms of human behavior.

PHIL 3033: Esthetics

An investigation of representative historical theories of beauty, the nature and social significance of art, standards of criticism, and epistemological aspects of the creative process.

PHIL 3053: Philosophy of Religion

A consideration of historical and contemporary studies in religious thought basic conceptions of the divine, the human engagement with the divine, and the nature and destiny of man within diverse eschatological perspectives.

PHIL 3063: Modern Political Thought

Cross-listed: POLS 3063

An examination of the major contributions to political thought during the Modern Era.

Note: Completion of POLS 2253 recommended.

PHIL 3103: Logic

A study of the principles of deductive reasoning. Topics include immediate inference, the syllogism, truth functions, natural deduction, quantification, and fallacies.

PHIL 3113: Contemporary Philosophy

A survey of some of the major philosophical trends of the twentieth century.

PHIL 3203: Medieval Philosophy

Historical study of the main philosophical ideas of the period from St. Augustine to the Renaissance.

PHIL 3253: Classical Political Thought

Cross-listed: POLS 3253

An examination of the major contributions to political thought during the Classical Age, the Medieval Era, and the Renaissance.

Note: Completion of POLS 2253 recommended.

PHIL 4093: American Philosophy

Cross-listed: HIST 4223

An examination of the main currents of American philosophical and religious thought from the earliest times to the present.

PHIL 4103: Advanced Logic

Cross-listed: MATH 3103

Prerequisites: MATH 2703 or PHIL 3103

A study of selected topics in advanced logic. Emphasis will be placed on proof theory, quantification theory, semantic tableaux, logicism, theories of completeness and consistency, and some consideration of the logical foundations mathematics.

PHIL 4951,4952,4953,4954: Undergraduate Research in Philosophy

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

PHIL 4991,4992,4993,4994: Special Problems In Philosophy

Admission requires consent of department head.

Physical Science Course Descriptions

PHSC 1001: Orientation to Physical Science

Introduction to vital university affairs, department and university resources and curriculum. The course emphasizes information and skills that increase a student's likelihood of a successful college career. All students majoring in programs within the Department of Physical Sciences are strongly encouraged to take this course during their first fall semester on the Arkansas Tech University campus.

PHSC 1004: Principles of Environmental Science

Cross-listed: BIOL 1004

This course is designed to bring the student to a basic but informed awareness of and responsible behavior toward our environment and the role of the human race therein. The content will include a study of the philosophical and scientific basis for the study of ecosystems and the environment, the nature of ecosystems, the techniques used to study the environment, the origin and development of current environmental problems, the interdisciplinary nature of environmental studies, the processes of critical thinking and problem solving, and the moral and ethical implications of environmentally-mandated decisions.

Lecture three hours, Lab three hours. \$20 laboratory fee.

PHSC 1011: Orientation to Physical Science II

Continuation of PHSC 1001. Introduction to programs of study and employment opportunities for students of the physical sciences. All students majoring in programs within the Department of Physical Sciences are strongly encouraged to take this course during their spring semester on the Arkansas Tech University campus.

PHSC 1013: Introduction to Physical Science

Prerequisite: A score of 19 or above on the mathematics section of the ACTE exam or completion of MATH 0903, Intermediate Algebra, with a grade of "C" or better.

An introduction to the natural laws governing the physical world, with emphasis upon the discovery and development of these laws and their effect upon man. Includes topics in physics and chemistry and may include other topics from other disciplines in physical science such as astronomy, meteorology, and/or geology.

Note: May not be taken for credit after completion of two laboratory courses in the physical science disciplines.

Note: To enroll in an internet section (TC1) of this course, the prerequisite COMS 1003 or equivalent is required.

PHSC 1021: Physical Science Laboratory

Co-requisite or Prerequisite: To be taken concurrent with or following completion of PHSC 1013.

An introduction to laboratory experiences in the physical sciences, including physics, chemistry, earth sciences, and astronomy.

Laboratory two hours. \$10 laboratory fee.

Note: To enroll in an internet section (TC1) of this course, the prerequisite COMS 1003 or equivalent is required.

PHSC 1031: Honors Physical Science Lab

Prerequisite: Must be accepted into ATU Honors program to enroll.

Introduction to Physical Sciences for the Honors program including topics from physics, chemistry, geology, astronomy and meteorology.

\$10 lab fee.

PHSC 1033: Honors Introduction to Physical Science

Prerequisites: Admission to University Honors or permission of instructor.

An introduction to the natural laws governing the physical world, with emphasis upon the discovery and development of these laws and their effect upon man. Specific topics are selected from disciplines of physics, chemistry, astronomy, geology, and meteorology.

PHSC 1051: Observational Astronomy Laboratory

Offered: Fall

Prerequisites: A score of 19 or above on the mathematics section of the ACTE exam or completion of MATH 0903 with a grade of "C" or better.

Co-requisite: PHSC 1053 or consent of instructor.

An introduction to astronomical observations and techniques. Students will have the opportunity to use telescopes at the ATU astronomical observatory (weather permitting) to make observations and collect scientific data for analysis. This course includes telescope orientation, constellation recognition, identifying celestial objects, and interpreting astronomical data.

Note: When taken concurrently with PHSC 1053, this course satisfies the general education physical science laboratory requirement upon successful completion of both courses.

Note: Course PHSC 1051 will run simultaneously with PHSC 3051 and duplicate credit will not be allowed. Credit for PHSC 3051 requires completion of an observational research project for upper division students, but is not required of students enrolled in PHSC 1051.

Laboratory 3 hours; 1 credit hour. \$10 laboratory fee.

PHSC 1053: Astronomy

Offered: Fall

Prerequisites: A score of 19 or above on the mathematics section of the ACTE exam or completion of MATH 0903 with a grade of "C" or better.

Co-requisite: PHSC 1051 or consent of instructor.

A study of our universe; constellations, celestial motions, tools and methods of astronomical observations, the solar system, properties of stars and the interstellar medium, the birth, life and death of stars, our Milky Way galaxy, dynamics of stellar systems and other galaxies, and cosmology.

Note: When taken concurrently with PHSC 1051, satisfies general education physical science laboratory requirement upon successful completion of both courses.

Note: Course PHSC 1053 will run simultaneously with PHSC 3053 and duplicate credit will not be allowed. Credit for PHSC 3053 requires completion of several assignments, a term paper and a research project for upper division students, but is not required of students enrolled in PHSC 1053.

PHSC 1074: Physical Science Inquiry

Prerequisites: A score of 19 or above on the mathematics section of the ACTE exam or the completion of MATH 0903, Intermediate Algebra, with a grade of "C" or better.

This course is designed to model physical science teaching and learning through the process of inquiry. Topics explored are Interactions and Energy, Forces, Systems, Behavior of Gases, Physical Changes, and Chemical Changes. The focus is upon the construction of knowledge regarding science content and process skills essential to the preparation of teachers of physical science in early childhood education. It is recommended for early childhood education majors seeking to fulfill undergraduate requirements in preparation for upper level science methods courses and is equivalent to 3 hours of lecture and 3 hours of laboratory experience in physical science. However, the course requires that students participate as active learners in an activity-based, cooperative learning style curriculum.

\$10 laboratory fee.

PHSC 3033: Meteorology

Offered: Spring

Prerequisites: any physical science course (PHSC, GEOL, CHEM, PHYS)

A study of the weather, the physics of the atmosphere, and associated phenomena.

PHSC 3051: Observational Astronomy Laboratory

Offered: Spring

Prerequisite: MATH 1113

Co-requisite: PHSC 3053 or consent of instructor.

An introduction to astronomical observations and techniques. Students will have the opportunity to use telescopes at the ATU astronomical observatory (weather permitting) to make observations and collect scientific data for analysis. This course includes telescope orientation, constellation recognition, identifying celestial objects, and interpreting astronomical data.

Note: When taken concurrently with PHSC 3053, this course satisfies the general education physical science laboratory requirement upon successful completion of both courses. Credit for PHSC 3051 requires completion of an observational research project for upper division students.

Laboratory 3 hours; 1 credit hour. \$10 laboratory fee.

PHSC 3053: Astronomy

Offered: Fall

Prerequisite: MATH 1113

Optional co-requisite: PHSC 3051 or consent of instructor.

A study of our universe; constellations, celestial motions, tools and methods of astronomical observations, the solar system, properties of stars and the interstellar medium, the birth, life and death of stars, our Milky Way galaxy, dynamics of stellar systems and other galaxies, and cosmology.

Note: When taken concurrently with PHSC 3051, satisfies general education physical science laboratory requirement upon successful completion of both courses. Credit for PHSC 3053 requires completion of a term paper and a research project for upper division students.

Note: Duplicate credit for previously offered PHSC 3043 is not allowed.

PHSC 3213: Science Education in the Elementary School

Cross-listed: BIOL 3213

Prerequisites: Junior standing, ECED 2001, ECED 2002, and at least six credit hours in science.

An overview of the most recent and research-based strategies and techniques for planning, teaching, and assessing elementary science. Inquiry-based methods and other constructivist approaches as described in the National Science Education Standards will be emphasized. Design and execution of learning activities for an elementary school setting are required.

Note: To enroll in an internet section (TC1 or AT1) of this course, one of these prerequisite courses is required: COMS 1003, EDMD 3013, or equivalent.

Lecture two hours, laboratory two hours; three credit hours. \$10 laboratory fee.

PHSC 3223: Science Education in the Middle Level

Cross-listed: BIOL 3223

Offered: Spring

Prerequisites: 16 hours in science and MLED 2001.

This course is designed to provide pre-service teachers with an integrated approach to the teaching of science in the middle grades. Theoretical and practical aspects of teaching science will be explored and students will develop curricular materials based on their explorations.

Lecture two hours, laboratory 2 hours. \$10 laboratory fee.

PHSC 3233: Science Education in the Secondary School

Cross-listed: BIOL 3233

Offered: Fall

Prerequisites: 16 hours in biology or 16 hours in physical science and SEED 2002.

This course will examine the issues of nature and history of science, developing lessons and assessments, and science education standards for the prospective secondary school teacher. Curriculum development, including assessment and planning skills, utilizing various instructional media and inquiry methodology are emphasized. Design and execution of learning activities for a secondary school setting are required.

Lecture two hours and lab two hours. \$10 laboratory fee.

PHSC 3252: The Nature and Context of Science

Cross-listed: BIOL 3252

Prerequisite: At least 12 hours of science courses.

This seminar course examines science from a holistic perspective. It will concentrate on examining how current science develops scientific knowledge including unifying concepts across scientific disciplines, the place of science within modern society, technology and its role in science and society, and current scientific methodology.

PHSC 4003: History and Philosophy of Science

Cross-listed: BIOL 4003

Prerequisite: a Sophomore-level science course (or higher).

A course in the historical development and philosophical basis of modern science.

Note: May not be repeated for credit as PHSC (BIOL) 5003 or equivalent.

Lecture two hours.

PHSC 4701: Special Methods in Physical Science

Prerequisites: Admission to student teaching phase of the teacher education program.

Co-requisite: SEED 4909

Intensive on campus exploration of the principles of curriculum construction, teaching methods, use of community resources, and evaluation as related to teaching physical science.

Physics Course Descriptions

PHYS 1114: Applied Physics

Offered: Fall

A survey of selected topics in physics. The "scientific method", mechanics, fluid mechanics, heat, electricity, sound, light, and nuclear radiation will be studied.

Note: May not be taken for credit after completion of PHYS 2014, PHYS 2024, PHYS 2114, or PHYS 2124.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

PHYS 2000: Physics Laboratory I

Co-requisite: PHYS 2014 or PHYS 2114.

PHYS 2010: Physics Laboratory II

Co-requisite: PHYS 2024 or PHYS 2124.

PHYS 2014: Physical Principles I

Offered: Fall and summer (on demand).

Prerequisite: A grade of C or better in MATH 1113 or consent of the instructor.

Co-requisite: PHYS 2000

Open to freshmen. A broad survey course emphasizing the understanding of the principles of physics necessary for students not specifically interested in advanced work in physics, chemistry or engineering. Topics include mechanics, heat, sound, wave motion, and fluid mechanics.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

PHYS 2024: Physical Principles II

Offered: Spring and summer (on demand).

Prerequisite: PHYS 2014 or permission of instructor.

Co-requisite: PHYS 2010

Continuation of PHYS 2014, covering electricity and magnetism, light, relativity, particle physics, and quantum effects.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

PHYS 2114: General Physics I

Offered: Fall

Prerequisite or co-requisite: MATH 2924

Co-requisite: PHYS 2000

Introductory mechanics, heat and thermodynamics, kinetic theory, and sound.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

PHYS 2124: General Physics II

Offered: Spring

Prerequisite: Permission of instructor; prerequisite or co-requisite, MATH 2934.

Co-requisite: PHYS 2010

Introductory electricity and magnetism, wave motion, optics, and elementary quantum concepts.

Lecture three hours, laboratory three hours. \$10 laboratory fee.

PHYS 3001,3011,4001,4011: Colloquium

Offered: On demand

Prerequisite: Junior standing

Attendance required of students interested in physics concentration. Discussion of advanced topics in current physical theory. Student presentations are required.

Lecture discussion one hour.

PHYS 3003: Optics

Offered: Spring even years

Prerequisite: PHYS 2124 or consent of instructor.

Introduction to geometrical and physical optics.

Lecture two hours, laboratory two hours. \$10 laboratory fee.

PHYS 3023: Mechanics

Offered: Fall even years

Prerequisite: PHYS 2114

Co-requisite: MATH 3243

The conservation laws. Euler's angles. Lagrange's and Hamilton's equations.

PHYS 3033: Radiation Health Physics

Offered: On demand

Prerequisites: PHSC 1013, PHYS 2014 or CHEM 2124.

Theory and exercises in radiological monitoring techniques, neutron activation analysis, and environmental effects of nuclear reactors.

PHYS 3042: Intermediate Physics Laboratory

Offered: Fall odd years

Prerequisites: PHYS 2114 and 2124

For physical science education majors. This course expands and refines essential content and laboratory skills through the modeling and experimental investigation of topics in both classical and modern physics.

Note: Will not satisfy the physics elective requirement for students majoring in physical science.

Laboratory three hours. \$10 laboratory fee.

PHYS 3133: Theory of Electricity and Magnetism

Offered: Spring even years

Prerequisite: PHYS 2124

Gauss's law, potential, Laplace's and Poisson's equations in rectangular, cylindrical, and spherical coordinates, inductance, capacitance, moving charges, dielectric phenomena, and Maxwell's equations.

PHYS 3143: Electronics

Offered: On demand

Prerequisite: PHYS 2124 or ELEG 2113

Amplifiers, power supplies, oscillators, trigger circuits, modulation, and demodulation. Intended to acquaint students with the working principles of the equipment they will use as a physicist.

Lecture two hours, laboratory three hours. \$10 laboratory fee.

PHYS 3153: Solid State Physics

Offered: Fall odd years

Prerequisites: PHYS 2114, 2124; CHEM 2124.

Co-requisite: MATH 3243

An introduction to the physics governing the crystalline state of matter. Modern theories describing lattice vibrations, energy bands, crystal binding, and optical properties are presented. These ideas are then applied to the understanding of technologically important areas such as superconductivity, doped semiconductors, ferroelectric materials, and photorefractivity.

PHYS 3213: Modern Physics

Offered: Spring odd years

Prerequisite: PHYS 2124

Introduction to relativity, wave-particle interactions, atomic structure, quantum mechanics, quantum theory of the hydrogen atom, statistical mechanics, nuclear structure, and elementary particles.

PHYS 3991,3992,3993: Special Problems in Physics and Astronomy

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to three credits depending on problem selected and effort made.

PHYS 4003: Thermodynamics and Statistical Mechanics

Offered: Fall even years

Prerequisite: PHYS 2124; Prerequisite or co-requisite, MATH 3243.

Applications of the three laws of thermodynamics, partition functions and transport phenomena.

PHYS 4013: Quantum Mechanics

Offered: Fall odd years

Prerequisites: PHYS 3213 and MATH 3243

A formal course in wave and matrix mechanics, designed to enable a student to set up and solve the elementary practical problems of quantum mechanics.

PHYS 4113: Advanced Physics Laboratory

Offered: Spring odd years

Prerequisite: PHYS 3213

An application and investigation of advanced physical topics in the laboratory. Techniques of experimental [engineering] physics, such as computerized instrumentation, vacuum technology, optics, and electron optics will be applied to investigate various areas of advanced physics. Proper data reduction and analysis will be used to yield meaningful measurements. Intended as a culminating course, previous course work is applied to solve problems in the laboratory.

Lecture 1 hour, Lab 5 hours. \$10 laboratory fee.

PHYS 4213: Advanced Topics in Physics and Astronomy

Offered: Fall even years

Prerequisite: PHYS 2024 or PHYS 2124

Introduction to relativity, elementary particle physics, quantum dynamics, big-bang cosmology, atomic nucleosynthesis, and large scale structure and exotic states of matter such as black holes. Forces and interactions between the building blocks of matter in addition to cosmological models will be studied to gain insight into the complex universe we observe today.

Lecture two hours, laboratory two hours. \$10 laboratory fee.

PHYS 4951,4952,4953,4954: Undergraduate Research in Physics

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

PHYS 4991,4992,4993,4994: Special Problems in Physics and Astronomy

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

Political Science Course Descriptions

POLS 2003: American Government

A study of the principles and practices of American Government, explaining the origin and purpose of our governmental institutions in a broad sense, with consideration given to interstate and national state relations.

POLS 2013: Introduction to Political Science

The basic terms and concepts for the study of political science, including an understanding of democratic and authoritarian political systems and the methods for researching and writing a political science paper.

Note: This course is highly recommended for all students interested in political science.

POLS 2153: Introduction to Strategic Studies

An introduction to strategic studies focusing on the key theoretical principles that have played a major role in shaping Western understandings of strategy, with particular focus on the United States.

POLS 2253: Survey of Western Political Thought

An introduction to the subfield of political theory, examining the works of major political thinkers from ancient Greece to the present.

POLS 2403: Comparative Government

A study of the various political systems of the world, such as the governments of Western Europe, Socialist or Communist Systems, and developing world governments. The countries under examination are often selected to address important real-world circumstances.

POLS 2413: International Relations

A study of the theory and practice of international politics, with special emphasis upon the state system, decision-making, policy-making, war and arms control, ideology and nationalism, the global ecological system, interdependence, multinational institutions and corporations, and human rights.

POLS 2421,2431,3421: Model United Nations Workshop

Prerequisite: POLS 3433

Participation in the state or regional Model United Nations.

Note: Only one of these courses may be taken for credit during a semester.

Note: POLS 3421 may be repeated for credit three times.

POLS 2513: Research Design

This course is designed as an introduction to the field of political science research. This course teaches the scientific method as applied to political science, bibliographical aids, and the study and writing of political science. It is a hands-on course where students will use the skills learned to evaluate social science research.

POLS 3013: Recent American Foreign and Military Policy

The post World War II environment in which U.S. foreign and military policy functions; emphasis is on the formulation of policy, relationship of foreign policy and domestic affairs, problems of foreign and military policy coordination and control, and the military industrial complex.

POLS 3023: Judicial Process

Cross-listed: CJ 3023

The structure and operation of the state and national court systems. Emphasis upon the role of the criminal courts in the political system and the consequences of judicial policy making.

POLS 3024: Judicial Politics

This course examines the effect of the U.S. Supreme Court and its inferior courts on American politics, government and society, as well as the interactions and processes that determine judicial policy.

POLS 3033: American State and Local Government

A comparative study of the nature of the organization and operation of state and local governments in the United States with emphasis on state and local government in Arkansas.

POLS 3053: Introduction to Public Administration

A study of public administration with attention devoted to organizational problems and pathology, leadership, communication, control, and the hiring, training, compensating, motivating, and firing of personnel. Numerous case studies are considered.

POLS 3063: Modern Political Thought

Cross-listed: PHIL 3063

An examination of the major contributions to political thought during the Modern Era.

Note: Completion of POLS 2253 recommended.

POLS 3083: Political Parties and Interest Groups

A study of American political parties and interest groups with emphasis on such topics as public opinion, the nature and history of parties and interest groups, organizational structures and procedures, public policy interest, nominations, and elections.

POLS 3093: American Municipal Government

A comparative study of the structure, functions, politics, and problems of urban, suburban, and metropolitan governments in the United States, with emphasis on municipal governments in Arkansas.

POLS 3123: American Political Behavior

A study of the individual's decision to participate in American political life and the impact those decisions have on policy formation. The course aims to understand the influences that lead to or retard individual political participation.

POLS 3133: United States Congress

Examination of the U.S. Congress in terms of its functions as both a lawmaking institution and a representative institution. Attention to the legislative process, congressional elections, party leadership, and executive-legislative relations.

POLS 3143: The United States Presidency

Analysis of the role of the presidency in the American political system. Topics include the theoretical and constitutional foundations of the president, the growth of the presidency as an institution, the evolving constitutional, political, and environmental restraints to presidential action, presidential leadership, and historical trends in the relationship between the presidency and the legislative and judicial branches of government.

POLS 3253: Classical Political Thought

Cross-listed: PHIL 3253

An examination of the major contributions to political thought during the Classical Age, the Medieval Era, and the Renaissance.

Note: Completion of POLS 2253 recommended.

POLS 3423: Problems in International Affairs

This course will examine approximately ten major issues in international affairs. It will examine the history, politics, conflicts, debates, and actors involved in each specific issue area. The specific topics are up to the instructor, and will vary from offering to offering depending on the situation and issues in international relations at the time of instruction.

POLS 3433: United Nations

Offered: Fall

Study of the organization and functioning of the United Nations, significant problems confronting world organization, weaknesses of the UN, and the future of world organization. Students will conduct research and write papers on significant international issues confronting the UN and on the foreign policy of selected members of the UN.

Note: Students will participate each week in a mock session of the UN and will attend, at their own expense, the annual session of the Arkansas Model United Nations, which normally meets on Friday and Saturday of the first week in December.

Note: Only one Model United Nations course may be taken for credit during a semester.

POLS 3473: National Security Policy

A study of national security policy making, with an emphasis on current national security issues.

POLS 3513: Research Methods

Introduction to elementary descriptive and inferential statistics, with an emphasis on applications in political science.

POLS 4043: American Constitutional Law

A comprehensive study of the United States Supreme Court's decisions in the evolution of American Government as seen in the leading cases dealing with judicial review, separation of powers, and federal systems; protection of personal rights, interstate commerce, taxation, and due process of law in economic regulation and control; and civil liberties and civil rights.

POLS 4103: Environmental Politics

Prerequisite: POLS 2013 recommended.

An examination of environmental issues from a policy perspective. Although scientific questions are involved, emphasis is on the political process of environmental issues. Topics discussed include the actors, their power, limits to their power, and their impact on the environmental policy process.

Note: May not be taken after completion of POLS 5103 or equivalent.

POLS 4163: Public Choice Theory

The purpose of this course is to familiarize students with formal theory, with a focus on the assumptions of rationality, spatial and game theoretic modeling, strategic games, and institutions.

POLS 4951,4952,4953,4954: Undergraduate Research in Political Science

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required.

Note: One to four credits depending on problem selected and effort made.

POLS 4963: Senior Seminar

A required course for senior History and Political Science majors. Course content will cover a directed seminar in a specified area of Political Science. Research techniques will be emphasized.

POLS 4971: Internship

Cross-listed: HIST 4971

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

POLS 4972: Internship

Cross-listed: HIST 4972

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

POLS 4973: Internship

Cross-listed: HIST 4973

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

POLS 4974: Internship

Cross-listed: HIST 4974

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

POLS 4975: Internship

Cross-listed: HIST 4975

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/trainee status under professional guidance of both an

agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

POLS 4976: Internship

Cross-listed: HIST 4976

Prerequisites: Junior or Senior standing, 2.75 grade point average, and consent of department head.

A supervised placement in selected agency settings in student/trainee status under professional guidance of both an agency supervisor and a faculty member. Emphasis will be on providing hands-on experience in research, editing, cultural management, public service, or some other area related to the discipline. Written report required and minimum of 100 clock hours of supervision required per credit hour.

Note: May be repeated for a maximum of 6 hours credit.

POLS 4983: Political Science Seminar

A directed seminar in an area of social sciences. The specific focus will depend upon research underway, community or student need, and the unique educational opportunity available.

Note: This course may be repeated for credit if course content differs.

POLS 4991,4992,4993,4994: Special Problems in Political Science

Admission requires consent of department head.

Professional Studies Course Descriptions

PS 3001: Portfolio Development for Prior Learning Assessment

Prerequisite: the student must have successfully completed 60 hours of credit which includes all general education requirements and 12 hours of coursework after being admitted to the Professional Studies degree.

The basis for requesting credit for prior learning is the development of a portfolio with assistance from a faculty advisor. Every student requesting credit for prior learning must enroll in this course and complete a portfolio which demonstrates the college-level learning that has resulted from experiences outside a formal academic framework. The student utilizes this method to document knowledge acquired which is equivalent to upper-division college-level credit.

Note: Credit for PS 3001 applies only to the Bachelor of Professional Studies degree and cannot be applied toward any other program. Grading is on a Pass/Fail basis.

PS 3003: Special Problems

Prerequisites: Completion of the BPS Professional Core and permission of the program advisor.

This course will provide an opportunity for the student to facilitate a process for identifying a specific problem in an actual industry or business environment relevant to the student's specialty area. The student will outline a formal plan of action for identifying the problem. The plan must include a broad scan of the specific area/operation selected including the names and titles of the individuals surveyed for input. The end product will be the development of a formal needs assessment which identifies deficiencies or areas of improvement. The needs should be prioritized on the basis of feasibility, cost, and urgency.

PS 3023: Professional Communications

Prerequisites: 6 hours of English Composition and COMS 1003 or BUAD 2003.

This course supports career fields which require competencies in advanced professional communication. Course includes principles of effective professional communication using technology to generate professionally-prepared materials including formal correspondence, brochures, public relations materials, graphics, and technical documents.

PS 3133: Applied Principles of Personnel Management

This course supports the needs of professionals whose career fields require competencies in the area of human resources/personnel management. The focus of the course is on the practical application, essential theories, and process of personnel management from the perspective of a generalist. Course content will include the essential aspects of recruitment, selection, training, legal rights and responsibilities, compensation and appraisal.

PS 3143: Applied Professional Research

Prerequisite: Successful completion of General Education math requirement.

This course provides an overview of professional research fundamentals, including instruction in applying citations and appropriate statistics in professional settings. Topics covered include, but are not limited to, different types of research, the research process, ethics in research, reference citation models, and statistical concepts.

Note: This course must be taken as a prerequisite for PS 3003 unless waived upon advisor approval.

PS 4003: Capstone Project

Prerequisite: PS 3003

This course capstones the process conducted in PS 3003 by requiring the student to demonstrate competencies required of a professional in the student's specialty area in an actual business or industry setting. The student will assume a leadership role in presenting the outcomes of the needs assessment to a group of company stakeholders. On the basis of empirical research conducted throughout the assessment process, the student will recommend relevant strategies for addressing the identified problem/s. A review of the literature will serve to either validate or reject the strategies selected. A continuous process improvement model will be developed along with a detailed continuous process improvement plan which must be approved and accepted by all relevant stakeholders. The final component of the course will require the student to demonstrate presentation ability, appropriate leadership styles, critical thinking, and communications skills in a formal presentation of the strategic plan to the group responsible for implementing the strategies.

PS 4201,4202,4203,4204,4205,4206,4207,4208,4209,4210,4211,4212: Prior Learning Assessment Credit

Prerequisite: PS 3001

Based on a recommendation from the BPS Director/instructor and reviewed by the dean of Community Education and the Registrar, the portfolio assessment completed in PS 3001 will determine the number of hours that can be awarded for prior learning. This variable-credit course provides the opportunity for the student to enroll in the number of hours that were approved through the portfolio up to a maximum of 12 hours. Regular tuition charges will be applied.

Note: Credit for PS 4201-12 applies only to the Bachelor of Professional Studies degree and cannot be applied toward any other program. Grading is on a Pass/Fail basis.

PS 4951,4952,4953,4954: Undergraduate Research in Professional Studies

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required.

Note: One to four credits depending on problem selected and effort made.

PS 4991,4992,4993,4994: Special Problems in Professional Studies

This course is designed to address current issues and topics relevant to professional disciplines in the workforce. Content will be determined by contemporary trends and timely issues.

Psychology Course Descriptions

PSY 2003: General Psychology

An introduction to basic concepts in the study of behavior and to elementary principles of genetics, individual differences, motivation, emotion, personality, sensation, and perception.

PSY 2023: Consumer Psychology

An introduction to the application of psychological principles to the study of the acts of individuals involved in obtaining and using economic goods and services, including the decision making processes that precede and determine these acts. Emphasis is placed on the role of perception, learning, personality, and attitude change.

PSY 2033: Psychology of Adjustment

A course to provide a broad introduction to psychology as applied to human behavior. Focus is on the theoretical and experimental issues underlying the development and function of mental and emotional states. Emphasis is on normal functioning.

\$20 testing fee.

PSY 2053: Statistics for the Behavioral Sciences

Cross-listed: SOC 2053

Prerequisites: MATH 1113 and PSY 2003 or SOC 1003, or consent.

An introduction to descriptive and inferential statistical methods pertinent to behavioral sciences research, including correlation, sampling distributions, t-tests, chi square and analysis of variance. Emphasis is upon the logical and applied aspects.

PSY 2063: Research Design for the Behavioral Sciences

Cross-listed: SOC 2063

Prerequisite: PSY 2003 or SOC 1003

This course is designed to introduce you to the foundations of behavioral science, the logic of research design and the many possible modes of operation. This class focuses on teaching students in the behavioral sciences the basic principles that guide the research process, the elements of research design, how to read and critique research articles, and how to write a literature review for a research project.

PSY 2074: Experimental Psychology

Prerequisites: PSY 2003 and PSY(SOC) 2053

A study of research methods in psychology. Emphasis is placed upon developing skills in data gathering and analysis, report writing and application of basic research strategies.

Three hours lecture, two hours laboratory per week.

PSY 2093: Human Sexuality

A survey of the psychological themes associated with human sexuality. Topics include, but are not limited to: love and intimacy, sexual behaviors, sexual problems, gender, and sexual orientation.

PSY 2133: Cross-Cultural Psychology

This course is designed to link basic principles in cross-cultural developmental psychology and practical everyday events and questions as above ones together to help students cultivate a global and multicultural perspective on human behavior and gain an understanding of, and appreciation for, human development as it takes place in diverse cultural settings throughout the world. Experiential learning will be an important component of this course. Each student will have a chance

to observe the behavior of a child/adolescent of different ethnic background from his or her own and develop their own cross-cultural viewpoint on human development.

PSY 3003: Abnormal Psychology

Prerequisite: PSY 2003

Emphasis will be placed upon the etiology, symptoms, and treatment of the neuroses, psychoses, and personality disorders.

PSY 3013: Psychosocial Aspects of Death and Dying

Cross-listed: SOC 3013

Prerequisite: Upper division standing.

This course studies the psychosocial and sociological aspects of death. The course will provide a basic insight into the dynamics surrounding death from the individual and societal level, its impact on survivors, and the effect death has on the living.

Note: This course cannot be taken for credit after completion of PSY 4003.

PSY 3033: The Criminal Mind

Cross-listed: CJ 3033

Prerequisite: PSY 2003 and CJ(SOC) 2003 or CJ(SOC) 2043

The course familiarizes students with various models, theories, and research regarding criminality from a psychological perspective. Genetic, constitutional, and biological factors will be emphasized, and some practical applications to dealing with criminals will be considered.

PSY 3053: Physiological Psychology

Prerequisites: PSY 2003, BIOL 2124, or BIOL 1014

An introduction to the physiological correlates of behavior, with emphasis upon the nervous system.

PSY 3063: Developmental Psychology I

Prerequisite: PSY 2003

A study of how the maturation process affects an individual's physical and psychological state from conception through adolescence. Representative topics include (but not limited to) genetic influences, child cognitive processes, moral reasoning, and testing.

PSY 3073: Psychology of Learning

Prerequisite: Twelve hours of psychology.

An introduction to the basic processes in learning and conditioning, including human and animal experimental findings. Emphasis will be placed on conditioning paradigms, reinforcement principles, memory functions and their use in behavior change.

PSY 3083: Psychology of Women

The purpose of this course is to examine the lives of girls and women, including topics such as gender stereotypes, the development of gender roles, gender comparisons, women and work, love relationships, women's physical and mental health, violence against women, and women in later adulthood. Students who take this course should acquire an understanding of what it means to be female in North America.

PSY 3093: Industrial Psychology

Prerequisite: PSY 2003

A survey of psychological applications in industrial settings with emphasis upon selection, placement, and training techniques; organizational theory; and decision making processes.

PSY 3133: Self and Society

Cross-listed: SOC 3133

Prerequisite: SOC 1003 or PSY 2003

A sociological survey of the ways in which social structure and personality interact. Topics typically covered are: socialization, attitudes and value formation and change, and group influences upon self concept and self esteem.

PSY 3141,3142,3143,3144: Seminar in Psychology

A directed seminar in an area of psychology. The specific focus will depend upon research underway, student need, and current developments in the field of psychology.

Note: May be repeated for credit if course content differs.

PSY 3153: Theories of Personality

Prerequisite: Six hours of psychology.

An introduction to the various theoretical viewpoints of the normal personality structure and its development.

PSY 3163: Developmental Psychology II

Prerequisite: PSY 2003

The study of how the maturation process affects an individual's physical and psychological state from adolescence through old age. Representative topics include (but not limited to) early, middle, and late adulthood biological, psychosocial and cognitive development.

PSY 3173: Psychology of Consciousness

Prerequisite: Upper division standing.

An introduction to the various theoretical viewpoints as to the topic of consciousness and how it is investigated.

PSY 3184: Animal Behavior

Cross-listed: BIOL 3184

Offered: Spring of even years

Prerequisite: sophomore standing in biology or psychology, or approval of instructor.

An introductory course in animal behavior covering behavioral responses in primitive and advanced animals exposed to a wide range of environmental and social conditions. Laboratory exercises will include field as well as in-lab exercises and will focus on observational techniques and analyses of behavioral patterns in vertebrates and invertebrates.

Lecture three hours, laboratory two hours. \$20 laboratory fee.

PSY 3813: Lifespan Development

Prerequisites: NURS major, PSY major with 90 earned hours, or instructor permission.

A study of the processes of human development from conception through the lifespan. Research, application, and other considerations for Nursing majors will be emphasized. Topics include, but are not limited to: how the maturation process

affects an individual's physical and psychological state, genetic influences, child cognitive processes, moral reasoning, and early, middle, and late adulthood biological, psychosocial, and cognitive developmental processes.

PSY 4003: Advanced Research Method and Lab for Psychology

Prerequisites: PSY 2003, 2053, and 2063

A study of research methods in psychology. Emphasis is placed upon developing skills in data gathering and analysis, report writing and application of basic research strategies.

PSY 4013: History of Psychology

Prerequisite: PSY 2003

A survey of the developments in psychology from the ancient Greeks to the emergence of psychology as a modern experimental science.

PSY 4033: Psychological Tests and Measurements

Prerequisites: Twelve hours of psychology and PSY(SOC) 2053.

Theory of psychological testing, statistical procedures, and training in administration, scoring and profiling of various tests of ability, achievement, interests, and personality.

\$20 testing fee.

PSY 4043: Social Psychology

Cross-listed: SOC 4043

Prerequisite: 9 hours of Sociology or permission.

The study of how individuals are influenced by the actual or implied presence of other persons. Emphasis is placed on attitudes, social cognition, social influence, aggression, altruism, self and other perception.

PSY 4053: Psychology of Perception

Prerequisite: Nine hours of psychology or consent.

The study of general perceptual process. While the main senses will be covered, emphasis will be placed on visual functioning. The role of perception in organismic adaptation will be explored.

PSY 4073: Cognitive Psychology

Prerequisite: 60 hours including 9 hours of psychology or permission of instructor.

A study of the basic principles of mental processes, and their influence on behavior. Specifically, the course focuses on the conscious and unconscious processes involved in the acquisition, storage, transformation, and use of knowledge.

PSY 4133: Psychopharmacology

Prerequisites: PSY 2003, 2053, or permission of instructor.

An introduction to the field of psychopharmacology. Representative topics include (but are not limited to) neuronal structures and processes, neurochemicals and neurotransmission, and the biological basis and pharmacological treatment of neurodegenerative diseases and mental illness.

PSY 4234: Field Placement

Prerequisites: PSY 2023 or 3093, and PSY(SOC) 2053 and PSY 2074 (or comparable), senior major, and mutual consent of advisor, supervising faculty and industry supervisor.

This course is a jointly supervised field placement in an area business or industry. Emphasis is placed on integration of theory and classroom work with on the job experience. The placement is designed for students who are considering work in the area of industrial/organizational or consumer psychology.

Note: The purchase of professional liability insurance is required.

PSY 4951,4952,4953,4954: Undergraduate Research in Psychology

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

PSY 4991,4992,4993,4994: Special Problems in Psychology

Prerequisites: Eighteen hours of psychology and prior permission of instructor.

Independent work under individual guidance of a faculty member.

Reading Course Descriptions

READ 0103: College Reading Skills

A course designed to develop reading skills through perception training, vocabulary building, comprehension training, and active listening exercises. Individual diagnosis and prescription is emphasized.

Note: The grade in the course will be computed in semester and cumulative grade point averages, but the course may not be used to satisfy general education requirements nor provide credit toward any degree.

Note: A student who is placed in READ 0103 must repeat the course until he or she earns a grade of "C" or better. A student who makes a "D" or "F" in READ 0103 must repeat the course in each subsequent semester until he or she earns a grade of "C" or better.

Recreation/Park Administration Course Descriptions

Coeducational Activities (May be taken for General Education credit)

RP 1002: Backpacking

This course is an introduction to basic backpacking skills, equipment, food, and backcountry travel. Day hikes and overnight hikes.

Note: Students will need to provide own personal equipment (backpack, sleeping bag, etc.) and be willing to share tents, stoves, cooking gear, etc. with other students in the course. Some students may need to borrow or purchase such gear depending on the equipment owned by members of the class.

\$50 course fee required.

RP 1011: Sport Hunting

An introduction to the fundamentals of sport hunting, materials, and personal skills. Emphasis on state game laws, personal equipment and usage, game species and their natural habitats, and firearm safety. Arkansas Hunter Safety certification awarded with successful completion.

RP 1021: Boating Education

This course will take students through the Arkansas Game and Fish Commission Boating Guide. Those who successfully complete the course will be awarded Boating Safety Certification. A variety of audio visual presentations will be used, and participation in one weekend day of actual boating experience is required. Certification is awarded upon completion.

RP 1031: Introduction to Cycling

Introduction to Cycling is designed to introduce the beginner biker to the basics needed for lifelong enjoyment of this recreational activity and sport. Students will be introduced to techniques of road cycling and off-road cycling. Emphasis on choosing clothing and equipment, maintenance, and riding skills. Students will have riding opportunities at area trails, as well as classroom instruction.

Note: Participants are expected to provide their own bikes and associated gear and equipment.

\$50 fee required to cover transportation to area trails.

RP 1041: Principles and Techniques of Fishing

This course provides an introduction to the sport of fishing. Students will learn to identify species of freshwater fish, emphasizing fish inhabiting Arkansas streams and lakes. Students will learn casting techniques, ethics, catch-and-release techniques, knot tying, and lure and bait selection. Cleaning and cooking your catch of the day will be covered.

Note: Arkansas fishing license required. Bring your own pole and tackle. Field trips to area fishing holes.

\$10 lab fee required.

Recreation/Park Administration Course Descriptions

Academic Courses

RP 1013: Principles of Recreation and Park Administration

A study of the history of the recreation and park profession and the basic sociological and ecological intermix of contemporary recreation and park services.

RP 1993: Basic Forest Firefighting

This class is taught jointly by the U.S. Forest Service and ATU using classroom theory and weekend field exercises which will enable successful candidates to obtain the "Red Card" recognized by most federal and many state firefighting agencies as a minimum requirement for wildland fire firefighting certification. This class consists of the following wildland fire training courses recognized by the National Wildland Coordinating Group (NWCG): S-130 Basic Firefighting; S-190 Introduction to Fire Behavior; S-110 Wildland Fire Suppression Orientation; I-100 Introduction to Incident Command System; and Standards for Survival. These courses will be taught together to provide a complete picture of the basics of forest firefighting. This training is required before any person can participate on a wildland fire suppression crew for the U.S. Forest Service, other federal agencies and most other state wildland fire agencies. Instruction will be by U.S. Forest Service certified instructors and RP faculty.

RP 2003: Recreation Programming

Recreation program planning, supervision, and evaluation. This course examines the theory, principles, and leadership techniques of programming for individuals and groups in a variety of recreation settings, including community, institutions, and camps.

Note: May not be taken for credit after completion of RP 2002 and RP 2012.

RP 2013: Landscape Planning and Design

An introduction to the use of plants and other materials in the landscape planning process and environmental design.

RP 2033: Recreation Leadership

A study of the processes, methods, and characteristics of leadership and supervision in the delivery of leisure services.

RP 2133: Introduction to Travel and Tourism

Cross-listed: HA 2133

The introduction to travel and tourism, its components and relationship to the recreation and hospitality industry. The course will explore the current and future trends in travel and tourism and the effects on the economy, as well as the social and political impacts of travel and tourism.

RP 3013: Recreation for Special Populations

Development of an understanding of disabled sub populations and its relationship to recreation programming and administration for agencies at the local, state, and federal level of responsibilities.

RP 3023: Camp Administration

Theory and principles of camp administration, programming, leadership, and supervision in public, private, and school camps. Field trips, school camp.

RP 3033: Commercial Recreation

An introduction to the spectrum of planning, delivery and assessment of goods and services in the commercial sector of recreation.

RP 3034: Site Planning and Design

Fundamentals of the site planning process and application to park and recreation development, including consideration of factors both external (user preferences) and internal to the site (function, organization and aesthetic treatment). Emphasis on resource capabilities and potentials.

Lecture two hours, laboratory four hours.

RP 3043: Work Experience

Prerequisite: Departmental Approval

Supervised field application of class skills and knowledge in Parks and Recreation work situations. Students are given the opportunity to take part in meaningful management and work experiences in actual work situations under the supervision of both university faculty and professionals in the field.

Minimum of 100 clock hours of work experience is required.

RP 3053: Natural Resource Management and Planning

Study of the economic, social, political, and physical factors of the natural environment and methods to guide, direct, and influence orderly growth and development.

RP 3063: Outdoor Education

An introduction to outdoor education foundations, methods, and practice. Preparation and planning for teaching in, about and for the outdoors. Leadership of outdoor education programs.

\$25 transportation and supplies fee.

RP 3093: Interpretive Methods

An analysis of various interpretive techniques, interpretive planning, and utilization of interpretation to obtain management goals. Students will plan, design and implement interpretive programs using various media.

RP 3133: Tourism Planning

Cross-listed: HA 3133

An examination of the tourism planning process and techniques. Topics include tourism as a system, levels of planning, environmental, cultural and economic components, attractions, transportation, infrastructure and marketing.

RP 3403: Financing Recreation and Parks

Prerequisites: Junior standing and Recreation and Park Administration major.

An introduction to recreation and park Financial management including revenue and expenditure management.

RP 3503: Recreational Sport Management

An overview of recreational sport and event management in various settings. Topics include informal, intramural, club, extramural, instructional sports, and sporting events programming; values of recreational sports; administration and operation of recreational sports and sporting events; terminology and career opportunities in various sport settings.

RP 3763: Introduction to Turfgrass Management

An introduction to turf management emphasizing structure, growth, adaptation, and management of turfgrass. Methods for establishment, fertilization, mowing, cultivation, irrigation and pest management.

RP 3791: Turfgrass Management: Equipment

An introduction to turfgrass equipment. Visits to golf course or other turfgrass sites where students will examine and operate various types of turf equipment. Equipment maintenance discussed. Equipment design and selection discussed.

\$25 travel fee.

RP 3793: Turfgrass Pest Control

An introduction to the integrated management of pests affecting turfgrass. Maintenance practices related to pest and abiotic turfgrass problems, safety, and materials.

RP 3993: Wildland Fire Practices in Natural Resource Management

Prerequisites: RP 1993 or permission.

Advanced study of the organization, deployment, and techniques of fire suppression applicable to wildfires affecting residences, outbuildings, and other human-structure barriers in remote areas and outlying suburban locales. Particular emphasis on wildland structure and urban interface fire suppression problems. This is a science-based course. Emphasis is placed on: (1) uncontrolled wildland fire and the many positive and negative impacts with which fire personnel must deal; (2) planning and implementing controlled burn projects to attain desired future conditions and reduce fire hazards, and (3) the dilemma of ever-expanding wildland/urban interface issues. The overall purpose of this course is to provide the student with integral fire knowledge and skills necessary to become an effective member of a fire/natural resource management team.

Note: Weekend field exercises required.

RP 4001: Internship Preparation

Cross-listed: HA 4001

Prerequisites: PRHA major, senior standing, and completion of RP 3043 or HA 2053 or permission of department head.

Preparation for the internship experience. This course is graded Pass/Fail.

RP 4013: Recreation and Park Administration

Prerequisite: Six hours of RP courses.

A study of the administrative process of planning, organizing, staffing, directing, evaluating, budgeting, and coordinating of recreation and park agencies.

RP 4023: Research Methods

Prerequisite: Twelve hours of RP courses.

An introduction to the spirit and theory of research including the scientific method and its application to the recreation and parks profession.

RP 4042: Field Seminar in Interpretive Methods

This off-campus course will be of one-week duration conducted at recreation and park facilities in Arkansas and the nearby region. The course will center on discussion of interpretive facilities, techniques, problems and innovations with leading professionals on site.

A fee of \$100 will be assessed to cover transportation, food and entry fees for some sites. Lodging is usually provided by park agencies at the site free or at a very low cost.

RP 4053: Water Resources Development

A study of water resources with emphasis on surface supply and small watershed and reservoir recreation. Supply and pollution in federal, state, local and private water use allocation will be considered.

RP 4063: Park Operations

Prerequisite: COMS 1003 or equivalent.

Basic principles, practices, and problems pertaining to the management of public park systems with emphasis on

maintenance and operation schedules, construction and maintenance equipment, employee safety, office procedures, law enforcement, personnel management, and public relations.

RP 4073: Principles and Techniques of Therapeutic Recreation

Prerequisite: RP 3013 or permission of instructor.

A professional course which examines the foundation, theory, philosophy, and historical significance of therapeutic recreation. Emphasis on the therapeutic recreation process as it relates to program development and service delivery for individuals with illnesses and/ or disabilities in various clinical and community settings.

RP 4093: Resort Management

Cross-listed: HA 4093

Prerequisites: Junior standing and nine hours of RP or HA courses or by permission.

An in-depth study of resorts with respect to their planning, development, organization, management, marketing, visitor characteristics, and environmental consequences.

RP 4103: Recreation Law and Policy

An examination of the relationship between recreation and the law. Specific topics include liability negligence, contracts, safety codes, law enforcement, insurance, and administration policy. Identification of legal decision making organizations and the court system, including the policy dimensions of land acquisition, personnel disputes, and current issues in land use.

RP 4113: Personnel Management in Parks, Recreation, and Hospitality Administration

Cross-listed: HA 4113

Prerequisites: Junior standing and nine hours of RP or HA courses.

An overview of personnel considerations in various Recreation and Park agencies and the Hospitality industry. Laws, legal issues, structure, staffing, motivation, training, conduct, policies and other aspects of agency/industry personnel relations will be examined using case studies, as well as other methods.

RP 4116: Internship

Cross-listed: HA 4116

Prerequisites: Parks, Recreation, or Hospitality Administration major; senior standing, current certifications in CPR, Standard and Advanced First Aid, consent of department head and completion of all other courses applicable to degree.

Placement in selected agency settings as a student intern under professional guidance of both agency supervisor and faculty. Emphasis will be placed on application of classroom theory to agency requirements which fulfill student's individual career interest. No prior experience credit will be granted. Minimum of 600 clock hours during a minimum of 15 weeks of supervised internship is required. Student cannot document more than 40 hours of work experience per week. A written report is required within two weeks of internship completion.

\$100 supervisor travel fee required.

RP 4173: Therapeutic Recreation Assessment and Documentation

Prerequisites: RP 4073 or permission of instructor.

This course is an examination of the various assessment tools, styles of documentation, and methods of assessment and documentation utilized in therapeutic recreation services. The purpose of this course is to provide students with the basic skills and knowledge necessary to conduct therapeutic recreation assessments and to properly document health care information.

RP 4273: Administration and Operation of Therapeutic Recreation Programs

Prerequisites: RP 3013 and 4073 or permission of instructor.

Program design and planning for effective administration of client centered services for special populations. Management of therapeutic recreation services including standards of practice, clinical supervision, reimbursement, marketing, budgeting, and writing policies and procedures.

RP 4373: Interventions in Therapeutic Recreation

Prerequisites: RP 3013, RP 4073, or permission of instructor.

This course is designed to provide an understanding of the various interventions utilized in therapeutic recreation services and to develop technical competencies necessary for the provision of quality therapeutic recreation services. Emphasis will be placed on the skillful application of various processes and techniques utilized to facilitate therapeutic changes in the client.

RP 4473: Issues and Trends in Therapeutic Recreation

Offered: Spring of odd year

Prerequisites: RP 3013, RP 4073, RP 4173, and RP 4273 or permission of instructor.

This course provides an examination of current issues, trends, and professionalization concerns in therapeutic recreation, including professional organizations, ethics, current legislation, professional development, professional standards, credentialing, accreditation standards, improving organizational performance, and current controversies.

RP 4753: Sports Field Management and Design

A survey of design and management practices for turfgrass sports fields. Personnel and budgeting requirements for operations and maintenance.

\$25 travel fee.

RP 4763: Golf Course Operations and Design

Golf course turfgrass management as influenced by golf course design, including operations, financial analysis, personnel, and environment.

\$25.00 travel fee.

RP 4951,4952,4953,4954: Undergraduate Research in Recreation and Park Administration

Offered: On demand

Prerequisite: Departmental approval.

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

RP 4991,4992,4993: Special Problems and Topics

Offered: On demand.

Investigative studies and special problems and topics related to parks, recreation, and hospitality administration.

Rehabilitation Science Course Descriptions

RS 2003: Introduction to Rehabilitation Services

A survey of the history, philosophy, and roles of the rehabilitation and social services movement. In addition, the course will focus on public attitudes toward people with disability, adjustment to disability, and an orientation to the various community resources which can be utilized toward the rehabilitation of people with disabilities.

RS 3004: Medical and Psychosocial Aspects of Disability

A study of the etiology, treatment and prognosis of various disabling conditions. Emphasis will be placed on medical information as received in medical reports, and as related to vocational functioning and to the everyday psychological and social adjustment problems associated with disability.

Note: This course may not be taken for credit after completion of RS 3003.

RS 3013: The World of Work

A survey of the world of work emphasizing the role of work in our society, how disability changes one's work role, how career choices are made, and placement techniques.

\$20 testing fee.

RS 3023: Principles and Techniques of Rehabilitation Services

Prerequisites: Junior standing and RS 2003.

An introduction to the casework process emphasizing principles of case management, interagency relations and interviewing skills.

RS 3033: Introduction to Vocational Rehabilitation and the Vocational Rehabilitation Process

An overview of the history, philosophy, and legal basis of vocational rehabilitation plus an in-depth study of the case process. This class will emphasize the vocational rehabilitation process through studying closed case files and case recording procedures.

RS 3043: Introduction to Social Services and the Social Service Case Process

An introduction to the history, philosophy, and legal basis of the social services movement. This class will also emphasize the social service case process and case management practices.

RS 3073: Organization and Structure in the Rehabilitation-Human Services Setting

This course will provide the student with an overview of organizational and administrative structure in the rehabilitation human services setting. Additionally, it will focus on the dynamics involved in developing a successful managerial style.

RS 3083: Supported Employment and Special Populations

Prerequisite: RS 3013 or consent.

An introduction to the ideas, philosophies, models, concepts, and issues that characterize supported employment. Applications with different disability populations will be reviewed.

RS 3093: Rehabilitation Programming and the Elderly

A study of aging and the elderly from a rehabilitation viewpoint. This course will focus on intervention strategies, actual and potential, that might enable other people to maximize their potential and affect the needs for institutionalization.

RS 3123: Ethics in Human Services

A study of personal values, CRCC, ACA, and APA professional guidelines, and decision making models that will assist future human service practitioners to effectively deal with ethical dilemmas. This course will emphasize critical thinking and problem solving, and will utilize instructor and student generated dilemmas.

RS 3133: Multicultural Issues in Human Services

Prerequisite: ANTH 1213 or ANTH 2003

An introduction to issues of multiculturalism and diversity and the importance of understanding these issues when working with individuals. This class will emphasize understanding one's own culture, examine various cultures including disability, and stress the importance of understanding each individual in relationship to his/her culture.

RS 3141,3142,3143: Rehabilitation Science Seminar

A directed seminar in an area of rehabilitation science. The specific focus will depend upon research underway, community or student need, and the unique educational opportunity available.

Note: May be repeated for credit if course content differs.

RS 3153: Assistive Technology in Rehabilitation Settings

Prerequisite: RS 2003 or consent.

A study of the types of technology devices and services available to individuals with disabilities. Emphasis will be placed on knowledge of resources, assessment of individual needs, funding of devices and services, and methods to use assistive technology to improve the quality of life for all individuals.

RS 3163: Addictions Assessment, Planning, and Treatment Strategies

Prerequisites: RS 2003 or consent of instructor.

A study and assessment of addiction disorders and related treatment planning approaches with an overview of evidence based intervention techniques and strategies. Group facilitation skills and meeting cultural issues in the group setting will be addressed.

RS 3173: Addictions and the Family

Prerequisites: RS 2003 or consent of instructor.

A study of the impact of addictions upon families, the social fabric of the nation. The course includes a review of family systems theory and family addictions counseling models.

RS 3243: Social Services for Individuals and Families

A study of the varied and numerous services offered by federal, state, and privately funded social service programs with an emphasis on protective services, foster care, and adoption services.

RS 4012: Internship in Rehabilitation Services

(Twelve hour course)

Prerequisites: RS 2003, grade of C or higher in RS 3023, rehab major, senior standing, 2.00 cumulative grade point average, and consent of the instructor.

A full-time, one semester supervised internship in a rehabilitation or social services setting, either public or private. Emphasis will be placed on the student acquiring first hand experience and entry level skills in practitioner roles such as case management, interviewing and counseling, and coordination of client services among the various community helping services.

Note: The purchase of professional liability insurance is required.

RS 4024: Field Placement in Rehabilitation Science

Prerequisites: RS 2003, grade of C or higher in RS 3023, junior standing, 2.00 grade point average and consent of the instructor.

A supervised 14 week field placement in which the student may either be placed in one agency setting or if a broader experience is desired may rotate among several agencies. Emphasis will be placed upon gaining an understanding of the community context and coordination of client services among the various rehabilitation and helping agencies.

Note: The purchase of professional liability insurance is required.

RS 4034: Field Placement Related to Vocational Rehabilitation

Prerequisites: RS 2003, grade of C or higher in RS 3023, junior standing, completion of at least six hours in the related emphasis area, 2.00 grade point average, and consent of the instructor.

A supervised 14 week field placement in a setting related to vocational rehabilitation. Emphasis will be placed on the student's acquiring first hand experience in practitioner roles such as case management, interviewing and counseling, and coordination of client services among the various community helping services.

Note: The purchase of professional liability insurance is required.

RS 4044: Field Placement Related to Aging

Prerequisites: RS 2003, grade of C or higher in RS 3023, junior standing, completion of at least six hours in the related emphasis area, 2.00 grade point average, and consent of the instructor.

A supervised 14 week field placement in a setting related to aging. Emphasis will be placed on the student's acquiring first hand experience in practitioner roles such as case management, interviewing and counseling, and coordination of client services among the various community helping services.

Note: The purchase of professional liability insurance is required.

RS 4054: Field Placement Related to Corrections

Prerequisites: RS 2003, grade of C or higher in RS 3023, junior standing, completion of at least six hours in the related emphasis area, 2.00 grade point average, and consent of the instructor.

A supervised 14 week field placement in setting related to corrections and delinquency. Emphasis will be placed on management, interviewing and counseling, and coordination of client services among the various community helping services.

Note: The purchase of professional liability insurance is required.

RS 4064: Field Placement Related to Social Services

Prerequisites: RS 2003, grade of C or higher in RS 3023, junior standing, completion of at least six hours in the related emphasis area, 2.00 grade point average, and consent of the instructor.

A supervised 14 week field placement in a setting related to social services. Emphasis will be placed on the student's acquiring first hand experiences in practitioner roles such as case management, interviewing and counseling, and coordination of client services among the various community helping services.

Note: The purchase of professional liability insurance is required.

RS 4074: Field Placement for Psychology and Sociology Majors

Prerequisites: RS 2003, grade of C or higher in RS 3023, fifteen hours in major, senior standing, 2.00 grade point average, and mutual consent of the student's advisor, the supervising faculty member, and the director of Rehabilitation Science.

A jointly supervised field placement in a human services agency setting, either public or private. Emphasis will be placed on the student's acquiring first hand experience in practitioner roles as they relate to his major and special interest.

Note: The purchase of professional liability insurance is required.

RS 4084: Field Placement Related to Child Welfare Services

Prerequisites: RS 3043, RS 3243, grade of C or higher in RS 3023, senior standing, completion of at least six hours in the related emphasis area, 2.50 grade point average, and consent of the instructor.

A supervised 14-week field placement in a Division of Children and Family Services setting. Emphasis will be placed on the student's acquiring first-hand experiences in practitioner roles such as case management, interviewing, risk assessment, interagency collaboration, crisis management, and problem solving.

Note: The purchase of professional liability insurance is required.

RS 4094: Rehabilitation Science Field Placement in Addictions

Prerequisites: RS 2003, RS 3023 (C or better), junior standing, completion of six hours in emphasis area (except RS 4024), 2.0 GPA and consent of instructor.

A supervised 10-14 weeks field placement in a setting related to addiction services. Emphasis will be placed on the student's acquiring first-hand experiences in practitioner roles such as case management, interviewing, risk assessment, interagency collaboration, crisis management, group services, motivational interviewing approaches, and client solution/change strategies.

RS 4123: Survey of Counseling Theories

Prerequisites: Nine hours of psychology to include PSY 2003, PSY 3063, and PSY 3003, or PSY 3153, senior standing, or consent of the instructor.

A comparative study of the major theories of counseling, stressing their philosophical views of mankind, assumptions, techniques, strengths, and weaknesses.

RS 4133: Seminar in Severe Disabilities

Prerequisites: PSY 2003, RS 2003, or consent.

A study of what makes a disabling condition a severe disability. This course will stress independent research and class presentations by the students dealing with the various severe disabilities.

RS 4143: Rehabilitation of the Developmentally Disabled

Prerequisites: PSY 2003, RS 2003, or consent.

A study of the delivery of services to, and the rehabilitation of, those handicapped individuals classified as being developmentally disabled, i.e., mental retardation, cerebral palsy, and epilepsy. Emphasis will be placed on prevocational, vocational, and community-living training for such individuals and the planning required for the provision of such services.

RS 4163: Substance Abuse

Prerequisites: RS 2003, PSY 2003, SOC 1003, or consent of the instructor.

A study of drug abuse emphasizing etiology, patterns of use and abuse, and problems related to research and approaches to treatment.

RS 4173: Family Centered Services

Prerequisites: RS 3023 and 3243 or consent of the instructor.

An advanced course focusing upon family and community strengths and child welfare practice.

RS 4183: Family Services Seminar

Prerequisites: RS 3023 and 3243 or consent of the instructor.

A capstone course for students emphasizing child welfare services.

RS 4951,4952,4953,4954: Undergraduate Research in Rehabilitation Science

Offered: On demand

Prerequisite: Departmental approval.

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

RS 4991,4992,4993,4994: Special Problems in Rehabilitation Science

Prerequisites: Twelve hours of rehabilitation science and prior approval of the Director of Rehabilitation Science.

Independent work under individual guidance of a staff member.

Russian Course Descriptions

RUSS 1014: Beginning Russian I

Emphasis on conversation; introduction to basic grammar, reading, writing, and culture.

RUSS 1024: Beginning Russian II

Continued emphasis on conversation and fundamental language skills.

RUSS 2014: Intermediate Russian I

Prerequisite: Beginning Russian II (RUSS 1024) or equivalent.

Instruction designed to develop communication skills and basic knowledge of grammar, reading, writing, and culture.

RUSS 2024: Intermediate Russian II

Prerequisite: Intermediate Russian I or equivalent.

Instruction designed to enhance communication skills and knowledge of grammar, reading, writing, and culture.

Secondary Education Course Descriptions

SEED 2002: Introduction to Secondary Education

Prerequisite: Sophomore standing or departmental approval.

This course is designed to help secondary teacher candidates understand the field of education systemically and to understand the professional roles and ethical responsibilities required of the professional secondary educator. The course consists of classroom instruction and a guided field component.

Note: A grade of "C" or higher in the course is required in order to be eligible for admission into Stage II of Teacher Education.

SEED 3552: Adolescent Development

The primary purpose of this course is to prepare teacher education candidates for classroom interaction by tracing influences of normal human development in all domains and showing how heredity and environmental factors affect the individuals' capacity to learn and function in a school environment. The teacher candidate will examine current research, concepts and issues related to normal adolescent development as well as exceptionalities that may be present. A range of cultural, social, and cognitive factors will be explored through reading, discussion, observation, literature search, interviews and case studies.

SEED 3702: Introduction to Educational Technology

This is a research-based course involving applications of media techniques to facilitate learning. Media presentations are planned and implemented using practical and theoretical considerations about learning characteristics, exceptionalities, and cultural differences. Various projection techniques as well as microcomputer applications are utilized.

SEED 4052: Adolescent Exceptionalities

Prerequisite: Admission to Stage II of the teacher education program.

A study of the major areas of diversity including the mentally retarded, learning disabled, gifted, emotionally disturbed, children from economically disadvantaged homes, and their special needs in a school program.

Note: May not be taken for credit after completion of EDFD 5053, EDFD 4052 or repeated for credit as EDFD 5052 or equivalent.

SEED 4063: Educators-in-Industry

Offered: Each semester on demand.

A course devoted to career awareness in relation to the modern workplace. It is conducted in cooperation with local businesses and industries. The course involves research, on-site instruction, and work experience.

SEED 4503: Seminar in Secondary Education

Prerequisites: Admission to Stage II and Student Teaching.

Co-requisite: SEED 4809 or SEED 4909

This course is designed to provide secondary teacher candidates with knowledge and understanding of the history of American Education, school law, and other contemporary education issues. This course will also address teaching/learning strategies for content area learning and assessment.

SEED 4556: Classroom Application of Educational Psychology

Prerequisite: Admission to Stage II of the Teacher Education Program.

This course introduces secondary teacher candidates to educational psychology as a research- oriented discipline and a science of practical application. The course also requires that students apply the theories and principles to instructional planning, teaching, managing and assessing students. The course consists of classroom instruction and a field component.

SEED 4809: Teaching in the Elementary and Secondary School

Prerequisites: Admission to Stage II and student teaching.

Co-requisite: SEED 4503

A minimum of twelve weeks of supervised full-time student teaching at both the elementary and secondary levels. Meets requirements for K 12 licensure in art and music and licensure at both the elementary and secondary levels for physical education.

Fee \$100.

SEED 4909: Teaching in the Secondary School

Prerequisites: Admission to Stage II and student teaching.

Co-requisite: SEED 4503

A minimum of twelve weeks of supervised full-time student teaching at the secondary level.

Fee \$100.

SEED 4991,4992,4993,4994: Special Problems in Secondary Education

Offered: Each semester on demand.

Prerequisites: Senior standing and approval of department head.

Individual study of significant topics or problems relating to education under the guidance of an assigned faculty member.

Sociology Course Descriptions

SOC 1003: Introductory Sociology

An introduction to the nature of society, social groups, processes of interaction, social change, and the relationship of behavior to culture.

SOC 2003: Introduction to Criminal Justice

Cross-listed: CJ 2003

An overview of the criminal justice system and the workings of each component. Topics include the history, structure and functions of law enforcement, judicial and correctional organizations, their interrelationship and effectiveness, and the future trends in each.

SOC 2023: Sociology of the Ozark-Ouachita Region

Offered: Once per year

Prerequisite: SOC 1003

An introduction to the nature of society, social groups, social interaction, social change, and the relationship of behavior to culture in the Ozark-Ouachita region. The full range of sociological topics are covered, including crime and delinquency, marriage and family, social class and race, religion, and contemporary social movements.

SOC 2033: Social Problems

Cross-listed: CJ 2033

Prerequisite: SOC 1003

A sociological analysis of contemporary social problems including inequalities, deviance, population changes, and troubled institutions.

SOC 2043: Crime and Delinquency

Cross-listed: SOC 2043

Prerequisite: SOC 1003 or SOC(CJ) 2003

A study of the major areas of crime and delinquency; with emphasis on theories of crime and the nature of criminal behavior.

SOC 2053: Statistics for the Behavioral Sciences

Cross-listed: PSY 2053

Prerequisites: MATH 1113 and PSY 2003 or SOC 1003, or consent.

An introduction to descriptive and inferential statistical methods pertinent to behavioral science research, including correlation, sampling distributions, t-tests, chi square and analysis of variance. Emphasis is upon the logical and applied aspects.

SOC 2063: Research Design for the Behavioral Sciences

Cross-listed: PSY 2063

Prerequisite: SOC 1003 or PSY 2003.

This course is designed to introduce you to the foundations of behavioral science, the logic of research design and the many possible modes of operation. This class focuses on teaching students in the behavioral sciences the basic principles that guide the research process, the elements of research design, how to read and critique research articles, and how to write a literature review for a research project.

SOC 2073: History of Social Thought

A study of the historical development of social thought.

Note: May not be taken for credit after completion of SOC 4023, PHIL 4053, or equivalent.

SOC 2083: Sociological Theory

A survey course of sociological theories and theory development from the classical period to post-modernism.

SOC 3013: Psychosocial Aspects of Death and Dying

Cross-listed: PSY 3013

Prerequisite: Upper division standing.

This course studies the psychological and sociological aspects of death. The course will provide a basic insight into the dynamics surrounding death from the individual and societal level, its impact on survivors, and the effect death has on the living.

Note: This course cannot be taken for credit after completion of PSY 4003.

SOC 3023: The Family

Prerequisite: SOC 1003

A study of the American family institution with emphasis upon role relationships, norms, and models. Some attention is given to cross cultural comparisons.

SOC 3033: Environment and Society

Prerequisite: SOC 1003

This course focuses on the study of interrelationships between society and the natural environment from traditional to postindustrial forms. Topics in this class will include economic approaches to the natural environment, philosophical/ethical approaches to the natural environment, public opinion on the natural environment, the importance of the environmental movement and policy development on environmental issues.

SOC 3063: Communities

Prerequisite: SOC 1003

An exploration and analysis of the sociological concept of community from classical approaches to recent debates.

Note: May not be taken for credit after completion of SOC 2063.

SOC 3083: Social Deviance

Cross-listed: CJ 3083

Prerequisite: SOC 1003 or SOC(CJ) 2003

An introduction to the sociological and criminological study of human deviance. Various theories of deviance will be examined and applied to real life examples.

SOC 3093: Sociology of Education

Prerequisite: SOC 1003

A study of education as a social system, its organizational characteristics, and its inter relationships with other social systems such as the family, religion, economics, government, and politics.

SOC 3103: The Juvenile Justice System

Cross-listed: CJ 3103

Prerequisite: SOC(CJ) 2003

An in-depth look at the juvenile justice system including the structure, statuses and roles as well as current issues, problems, and trends.

SOC 3113: Social Movements and Social Change

Prerequisite: SOC 1003

An examination of past and current social movements and their effects on social policy and social change. Topics will include classical and contemporary theories of social movements and social change.

SOC 3133: Self and Society

Cross-listed: PSY 3133

Prerequisite: SOC 1003 or PSY 2003

A sociological survey of the ways in which social structure and personality interact. Topics typically covered are: socialization, attitudes and value formation and change, and group influences upon self concept and self esteem.

SOC 3153: Prison and Corrections

Cross-listed: CJ 3153

Prerequisites: SOC 1003 and SOC(CJ) 2033

An introduction to and analysis of contemporary American corrections. Emphasis will be on current and past correctional philosophy, traditional and modern correctional facilities, correctional personnel and offenders, new approaches in corrections, and the relationship of corrections to the criminal justice field.

SOC 3163: Introduction to Social Research

Prerequisites: SOC 1003 and SOC(PSY) 2053

An introduction to research methodology, with emphasis upon conceptualization, design, and processes.

SOC 3173: Social Gerontology

Prerequisite: SOC 1003

An introduction to the sociology of aging: content provides general and specific knowledge regarding the aging process. Implications for economic, political, and family institutions are emphasized.

SOC 4003: Minority Relations

Prerequisite: SOC 1003

A study of minority groups with emphasis upon discrimination, socio historical characteristics and processes of change. Minorities considered include racial, ethnic, and gender.

SOC 4013: Drugs in Society

Prerequisite: SOC 1003 or CJ 2003

This course presents a comprehensive study of the history and prohibition of drug use in the United States, as well as the effects of drugs on society in the form of crime, prison and treatment. The main focus of this class is on the history of drug use, how certain drugs become illegal, and the intended and unintended consequences of drug prohibition for communities and society.

SOC 4023: Sociology of Gender

Prerequisite: SOC 1003

This course addresses definitions of gender, gendered identities, how gender is created and maintained as a social construct, and the importance of gender in our daily lives. This class mainly focuses on the theoretical and empirical literature that encourages critical thinking about gender and challenges students to move beyond their preconceived notions/assumptions about gender.

SOC 4043: Social Psychology

Cross-listed: PSY 4043

Prerequisite: Upper division standing or permission.

The study of how individuals are influenced by the actual or implied presence of other persons. Emphasis is placed on attitudes, social cognition, social influence, aggression, altruism, self and other perception.

SOC 4053: Sociology of Health and Illness

Prerequisite: SOC 1003

An in-depth look at the sociology of health and illness including an examination of the social structures related to the medical system, the social psychology of health and illness, a comparative analysis of sick role behavior as well as the study of social causes and consequences of health and illness.

SOC 4063: Social Stratification

Prerequisite: SOC 1003

A study of social class and consequences for society and individuals.

SOC 4073: Sociology of Religion

Prerequisite: SOC 1003.

A study of the various theoretical explanations of religion, including its relationship to the larger society and the world system.

SOC 4141,4142,4143,4144: Seminar in Sociology

A directed seminar in an area of sociology. The specific focus will depend upon research underway, community or student need, and the unique educational opportunity available.

Note: May be repeated for credit if course content differs.

SOC 4206: The Law in Action

Cross-listed: CJ 4206

Offered: Summer only

Prerequisites: SOC/CJ 2043, 9 hours of Criminal Justice coursework, senior classification, and instructor permission.

An examination of sociological theories of law and main currents of legal philosophy is followed by participant observation of actual community legal agencies, including police, courts, and others as available.

SOC 4283: Sociology Capstone

Prerequisites: All required sociology courses (lower and upper division) and 9 hours of upper division electives in sociology, or consent of instructor.

This course must be completed by all sociology majors prior to graduation. The course content/topic is determined by the

professor and current issues in the local community, which may vary semester to semester. Emphasis will be placed on linking theory, research methods, and social action to community defined problems in the form of applied sociology.

SOC 4951,4952,4953,4954: Undergraduate Research in Sociology

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

SOC 4991,4992,4993,4994: Special Problems in Sociology

Prerequisite: Prior approval by instructor

Content will be determined by specific curriculum review and student need.

Spanish Course Descriptions

SPAN 1014: Beginning Spanish I

Introduction to conversation, basic grammar, reading, and writing.

Note: Advanced placement and credit by examination are available to students who have previously studied Spanish.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

SPAN 1024: Beginning Spanish II

Continued instruction in grammar and fundamental language skills.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

SPAN 1063: Basic Spanish for Medical and Social Services

Prerequisites: SPAN 1014 and 1024.

Useful terminology and expressions for the medical and social service situation, with a minimum of grammar.

SPAN 2014: Intermediate Spanish I

Prerequisite: SPAN 1024 or equivalent.

Instruction designed to develop greater facility in fundamental skills and more extensive knowledge of grammar.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

SPAN 2024: Intermediate Spanish II

Prerequisite: SPAN 2014 or equivalent.

Instruction intended to complete the survey of the basic grammar of the language and to provide the mastery of fundamental skills essential for enrollment in upper level Spanish courses.

Four hours of classroom instruction. One hour of foreign language lab per week is required.

SPAN 3003: Conversation and Composition I

Prerequisite: SPAN 2024 or permission of instructor.

Further study of Spanish grammatical systems with practice in composition and conversation based on analysis of short texts (newspaper articles, short stories, plays, poetry). Students are expected to use Spanish in oral and written expression.

SPAN 3013: Conversation and Composition II

Prerequisite: SPAN 3003 or permission of instructor.

Continuation of SPAN 3003.

SPAN 3023: Introduction to Linguistics

Cross-listed: ENGL 3023, FR 3023, GER 3023, SPH 3023

Prerequisites: ENGL 1023 or equivalent and SPAN 2024 or equivalent.

A study of basic concepts in language, comparative characteristics of different languages, and the principles of linguistic investigation.

SPAN 3113: Business Spanish

Prerequisite: SPAN 3003 or permission of instructor.

The study of business culture, terminology, presentations and cases in the Hispanic world. This course will present a detailed examination of business practices in Latin America and other Spanish speaking countries. Emphasis will be given to business protocols when conducting business correspondence, personal interviews, and appointments, among others. Attention will also be given to the use of technology in business.

SPAN 3123: Spanish Civilization and Culture

Prerequisite: SPAN 3013 or permission of instructor.

Study of the geography, history, arts, institutions, customs and contemporary life of the Spanish people.

SPAN 3133: Spanish-American Civilization and Culture

Prerequisite: SPAN 3013 or permission of instructor.

Study of the geography, history, arts, institutions, customs, and contemporary life of the peoples of Spanish America, with some attention to the major pre-Colombian civilizations.

SPAN 3143: Study Abroad

Prerequisites: Enrollment in a Tech-sanctioned study program in a Spanish-speaking country, completion of SPAN 2024 or equivalent, and permission of the Study Abroad supervisor.

Study of the contemporary language and culture in a Spanish speaking country.

Note: May substitute for SPAN 3003 or SPAN 3013, depending on the student's proficiency level.

SPAN 3163: Community Internship Experience

Prerequisite: Completion of SPAN 2024 or equivalent.

Study of contemporary language and culture in a Spanish-speaking community or setting.

Note: May be taken instead of SPAN 3143 to meet degree requirements.

SPAN 3213: Advanced Grammar and Usage

Prerequisite: SPAN 3013 or permission of instructor.

The course is designed to build writing competence and strengthen grammatical competence. Grammar will be studied within the context of writing assignments. The course will deepen the knowledge of the language through the usage of applied linguistics, syntax, grammar, and semantics.

SPAN 3382: Principles of Interpretation

Prerequisite: Completion of or concurrent enrollment in SPAN 3003.

Theory and practice based course on English-Spanish interpretation for health care and court settings.

SPAN 4003: Oral Communication

Prerequisite: SPAN 3013 or permission of instructor.

This course is designed to strengthen students' oral communication skills by enabling them to converse easily with native speakers on everyday topics in preparation for the oral proficiency interview (OPI).

\$134 interview fee.

SPAN 4023: Introduction to Spanish Linguistics

Prerequisites: SPAN 3013, 3023, 3213

The purpose of this course is to provide students with the fundamental knowledge of Spanish linguistics as the basis for future application of linguistic principles. This course explores Spanish phonetics, phonology, morphology, syntax and semantics.

SPAN 4203: Short Story

Prerequisite: SPAN 3013 or permission of instructor.

An analysis of Spanish-language short stories.

SPAN 4213: Spanish Literature

Prerequisite: SPAN 3223 or permission of instructor.

A survey of the literature of Spain with readings from representative works.

SPAN 4223: Spanish-American Literature

Prerequisite: SPAN 3223 or permission of instructor.

A survey of Spanish American literature with readings from representative works.

SPAN 4283: Seminar in Spanish

Prerequisite: SPAN 3013 or equivalent.

Course content will vary. May be repeated for credit if course content varies.

SPAN 4701: Foreign Language Pedagogy

Cross-listed: FR 4701, GER 4701

Prerequisite: Admission to student teaching phase of the teacher education program.

Co-requisite: SEED 4909

Intensive on-campus exploration of the principles of curriculum construction, applied methods, professional collaboration, and evaluation as related to teaching French, German, or Spanish, followed by professional internship application of these principles under the supervision of a qualified departmental instructor.

SPAN 4703: Foreign Language Teaching Methods

Cross-listed: FR 4703, GER 4703

Prerequisite: SPAN 3013 and SPAN 3123 or SPAN 3133 or equivalent; admission to Stage II of the Secondary Education sequence or equivalent.

Survey of instructional methods and discussions and demonstration of practical techniques for the teaching of a foreign language.

SPAN 4803: Spanish-Language Film

Prerequisites: SPAN 3123 or SPAN 3133 or equivalent.

An introduction to Spanish-language film theory and major films.

SPAN 4813: U.S. Latino/a Literature and Culture

Prerequisite: SPAN 1024

This survey course offers an overview of the history of U.S. Latino/a literature, introducing the major trends and placing them into a historical framework stretching from the nineteenth century to today. Topics to be discussed include the construction of identity in terms of race, gender, sexuality, and class; bilingualism and code-switching; the experiences of exile, the immigrant, the marketing of the Latino/a identity; and the relationship of the artist to his or her community.

SPAN 4901,4902,4903: Foreign Language Internship

Prerequisites: Advanced foreign language proficiency; permission of the instructor and the department head.

The Foreign Language Internship is intended primarily for majors in foreign languages or international studies. It is designed to provide outstanding students the opportunity to perfect their language proficiency and to acquire specific training and skills overseas. The overseas sponsor and the foreign language instructor of record will supervise the intern. Performance evaluations and a research paper will be required.

SPAN 4951,4952,4953,4954: Undergraduate Research in Spanish

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

SPAN 4991,4992,4993,4994: Special Problems in Spanish

Prerequisites: SPAN 2024 and consent of the instructor and the department head.

Designed to provide advanced students with a course of study in an area not covered by departmental course offerings.

Speech Course Descriptions

SPH 1003: Introduction to Speech - Communication

The purpose of this course is to develop within each individual an understanding of the utilitarian and aesthetic dimensions of speech communication and to increase ability to function effectively with others in a variety of communication situations.

SPH 1111,1121: Individual Events Practicum

Prerequisite: Consent of instructor.

Preparation and performance of a variety of public speaking events.

SPH 2003: Public Speaking

Prerequisites: ENGL 1013 or equivalent.

Fundamentals of composition, delivery, and logical reasoning. Effective utilization of basic visual aids will be included.

SPH 2013: Voice and Diction

A course for majors and non majors. A study of the effective use of the voice, improvement of diction, development of vocabulary, use of the dialects, techniques of radio television announcing, recognition of basic speech disorders.

SPH 2023: Communication Research and Writing

This course teaches majors the fundamentals of conducting scholarly research, accepted citation standards, and effective writing techniques for the communication discipline. Course includes a survey of the sub-areas of the discipline and lecture, discussion, research, presentations, and writing scholarly papers.

SPH 2111,2121: Debate Practicum

Prerequisite: Consent of instructor.

Case research and participation in public debate.

SPH 2173: Business and Professional Speaking

An oral communication course for individuals in business, industry and the professions. Human communication theories and behavioral research are used as a framework for generating competencies in interviewing, briefings, conference leadership, and intergroup coordination.

SPH 3003: Interpersonal Communication

This course emphasizes interpersonal aspects of communication. Central topics are choice making, personal knowledge, creativity and interpersonal relationships. Increased self awareness, understanding of interpersonal relationships and improvement of interpersonal skills are primary goals.

SPH 3013: Intercultural Communication

An examination of communication variables in different cultures and how to better understand and more effectively communicate across diverse cultures.

SPH 3023: Introduction to Linguistics

Cross-listed: ENGL 3023, FR 3023, GER 3023, SPAN 3023

Offered: Fall

Prerequisite: ENGL 1023 or equivalent.

A study of basic concepts of language, comparative characteristics of different languages, and the principles of linguistic investigation.

SPH 3033: Interviewing Principles and Practices

Prerequisite: SPH 2003 or consent of instructor.

A course for both majors and nonmajors that uses interviewing theory as a framework for developing skills in preparing for and practicing various types of interviews.

SPH 3043: Advanced Public Speaking

Prerequisite: SPH 2003 or consent of the instructor.

Focuses on enhanced preparation and delivery of advanced forms of public address. Critical analysis of various forms of public discourse and effective utilization of multi-media speech aids will be stressed.

SPH 3063: Oral Interpretation

Theory and practice of intelligent and effective oral reading of prose and poetry.

SPH 3073: Group Communication

Examines theory and procedures used when communicating in groups and teams. Areas of inquiry include principles of group formation and development, working in teams, leadership, conflict management, and discussion methods involving decision-making and policy implementation.

SPH 3111,3121: Debate Practicum

Prerequisite: Consent of instructor.

Case preparation, brief writing, and participation in public debate.

SPH 3123: Argumentation

Prerequisites: SPH 1003, SPH 2003 or equivalent, or consent of instructor.

Designed to develop research, critical thinking, and persuasive speaking ability. Includes lecture, discussion, research, study of debates, classroom debates, and presentations.

SPH 3163: Writing for Performance

Students will learn to communicate orally through the medium of aesthetic texts such as monologues and plays. This course teaches skills necessary to all forms of dramatic writing, with emphasis on plot structure, character development, and dialogue.

SPH 3223: Nonverbal Communication

This course provides an examination of the various methods in which nonverbal communication is utilized in the communication process. Included in the examination will be historical contexts, as well as the effects of physical appearance, touch, proxemics, eye contact, kinesics, and voice.

SPH 4003: Human Communication Theory

Prerequisite: SPH 1003, 2003, and 2023, or consent of instructor.

This capstone theory class integrates learning about speech communication in various contexts. It is an in-depth study of contemporary and traditional perspectives of human communication, and synthesizes major concepts in human communication theory development.

SPH 4053: Speech Communication Seminar

Prerequisite: Junior standing

A course for both majors and non majors who want to investigate the relationship between human communication and contemporary social, political, and economic issues.

SPH 4063: Organizational Communication

Theories of organizational communication are examined in terms of their practical application to various organizational contexts, including social, political, profit, and nonprofit organizations. Includes lecture, discussion, research, and group projects.

SPH 4111,4121: Individual Events Practicum

Prerequisite: Consent of instructor.

Preparation and performance of a variety of interpretive events.

SPH 4123: Rhetorical Criticism

This course will provide the principles of rhetorical theories as they have developed throughout history, and apply them to the critical analysis of various communication events.

SPH 4153: Persuasive Theory and Audience Analysis

Survey of classical and social science theories of persuasion. Particular emphasis is given to analysis of persuasive strategies, preparation of persuasive appeals, ethics of persuasion, and audience analysis. A consideration of social movements and persuasive campaigns is also included.

SPH 4173: Internship in Speech Communication

Prerequisites: Fifteen semester hours of Speech and SPH 4063, which can be taken concurrently; university grade point average of at least 2.50.

A course that focuses on career goals of students through classroom discussions and places students in communication positions within public and private organizations.

SPH 4701: Special Methods in Speech

Prerequisites: Admission to student teaching phase of the teacher education program.

Co-requisite: SEED 4909

Intensive on campus exploration of the principles of curriculum construction, teaching methods, use of community resources, and evaluation as related to teaching speech.

SPH 4951,4952,4953,4954: Undergraduate Research in Speech

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made

SPH 4991,4992,4993,4994: Special Problems in Speech-Communication

A course for majors only. Students are accepted by invitation of the instructor.

TECH Course Descriptions

TECH 1001: Orientation to the University

A course designed to provide information and enhance skills that will enable students to take responsibility for a successful transition to college. The course will expose students to college resources and requirements and promote the development of practical skills for college success.

Theatre Course Descriptions

TH 2203: Play Analysis

A course designed for the theatre major. Contains techniques and vocabulary essential for doing a production-based analysis for the student actor, designer or director.

TH 2273: Introduction to Theatre

Prerequisite: ENGL 1013 or equivalent.

A study of theatre as an art form with particular attention to scenic, dramatic, literary and historic elements.

Note: TH 2273 may be used to fulfill the fine arts general education requirement.

TH 2301: Introduction to Theatrical Dance

An introduction to the basic skills and discipline of stage movement and the steps and vocabulary of jazz, tap and ballet.

Note: This course counts as a PE activity credit in degree programs that are not intended for teacher licensure.

TH 2331: Advanced Theatrical Dance

Prerequisite: TH 2301

This course provides a continuation of the skills development for stage movement, and the steps, vocabulary, and discipline of ballet, tap, jazz, modern dance, and basic partnering.

Note: This course counts as a PE activity credit in degree programs that are not intended for teacher licensure.

TH 2511,2521: Practicum in Set Construction and Lighting

Credit will be given for forty hours of participation in these elements of stagecraft.

TH 2513: Introduction to Theatrical Design and Production

An introduction to the field of technical theatre.

TH 2611,2621: Practicum in Costume and Makeup

Credit will be given for forty hours of participation in these elements of stagecraft.

TH 2703: Acting Theories and Techniques

An introduction to standard acting techniques, including method acting.

TH 2711: Acting Practicum

Prerequisite: Consent of instructor

Credit will be given for a large part in a major production or for a small part preceded by a series of smaller parts in previous productions.

TH 2713: Intermediate Acting

Prerequisite: TH 2703 or equivalent

Emphasis on character development, character interaction, and scene work, with special attention to comedy.

TH 2721: Acting Practicum

Prerequisite: Consent of instructor

Credit will be given for a large part in a major production or for a small part preceded by a series of smaller parts in previous productions.

TH 3513: Stagecraft Techniques

An introductory course for both majors and non majors who want to learn the technical aspects of dramatic productions. A study of construction fundamentals and skills involved in scenic art. This course also introduces the student to the production process, theatre job descriptions, professional hierarchy, and technical specialist collaboration.

This course requires a weekly lab in addition to the class for supervised practice of class skills.

TH 3523: Principles of Theatrical Lighting

Prerequisite: TH 3513, or consent of instructor.

An introduction to lighting design, including the history of theatrical lighting, electrical theory and practice, lighting control systems, color theory and creative process. This course requires a weekly lab in addition to the class for supervised practice of class skills and familiarization with the production process.

TH 3703: Advanced Acting: Styles

Prerequisite: TH 2713 or equivalent.

The analysis and performance of scenes from plays from various historical periods, with attention to vocal and kinesthetic qualities appropriate to different styles.

TH 3711,3721,4711,4721: Practicum in Stage Management

Prerequisite: Consent of Instructor

Student will be given credit for stage-managing a full-length production or a slate of one-acts.

Note: Each number may be taken for credit one time with a maximum of 7 practicum credits counted toward the major.

TH 3731,3741,4731,4741: Practicum in Acting

Prerequisite: Consent of Instructor

Credit will be given for a large part in a major production or for a small part preceded by a series of smaller parts in previous productions.

TH 3803: Directing Theories and Techniques

An introduction to standard directing techniques.

TH 3811,3821: Directing Practicum

Prerequisite: Consent of instructor

Credit will be given for directing a one act play.

TH 3833: Advanced Directing

Prerequisites: TH 3811, and consent of instructor.

Credit will be given for directing a full length play.

TH 4243: Senior Project in Theatre History

Research project approved by the department to facilitate graduate school application.

TH 4263: Theatre History I: Antiquity to 1564

A historical survey of the development of drama and theatre from classical Greece through the sixteenth century.

TH 4273: Theatre History II: 1564 to 1900

A historical survey of the development of drama and theatre from the seventeenth to the nineteenth centuries.

TH 4283: Children's Theatre: Techniques and Practicum

Prerequisites: Consent of instructor

The philosophy of teaching acting to children, in theory and in practice. The course is designed for theatre majors, teachers, and others interested in child development. The semester equivalent of two hours of class lecture is combined with the semester equivalent of two hours of supervised laboratory experience in a children's theatre setting.

Note: May not be taken for credit after completion of SPH 5283 or equivalent.

TH 4313: Theatre History III: 1900 to 1960

The development of theatre during the first part of the twentieth century, including realism, expressionism, symbolism, epic theatre, and theatre of the absurd.

Note: May not be repeated for credit.

TH 4323: Theatre History IV: 1960 to the Present

The development of theatre during the latter part of the twentieth century, including neo realism, post modernism, feminism, political theatre, and collective creation.

Note: May not be repeated for credit as TH 5323.

TH 4503: Scene Design

Prerequisite: TH 3513, or permission of instructor.

A study of the elements of design for the stage, from conception to finished production models, focusing on line, form, mass, and color.

Note: May not be repeated for credit as TH 5503 or equivalent.

TH 4506: High School Play Production

This course provides essential information about high school play production. The course will provide basic information in lighting, sound design, set design and construction, makeup, costume design and construction, stage management, directing, and improvisational techniques.

Note: May not be repeated for credit as TH 5506 or equivalent.

TH 4511,4521: Practicum in Set Construction and Lighting

Prerequisite: Consent of Instructor

Student will be given credit for 40 hours of set construction participation.

TH 4513: Drafting for the Stage

Prerequisite: TH 3513 or permission of the Instructor.

Introduction to the United States Institute for Technical Theatre drafting techniques and language. Production of floor plans, elevations, construction drawings and perspectives for theatrical construction.

This course requires a weekly lab in addition to the class skills and familiarization with the production process.

TH 4523: Advanced Stagecraft

Prerequisites: TH 3513, TH 4513 or permission of instructor.

A course for technical theatre emphasis majors that trains the student for managing a theatre shop. Teaches advanced construction techniques, welding, pyrotechnics, and people managing skills.

This course requires a weekly lab in addition to the class for supervised practice of class skills and production process.

TH 4543: Senior Project in Design

Portfolio creation project approved by the department to facilitate graduate school application process or professional placement.

TH 4611,4621: Practicum in Costume and Makeup

Prerequisite: Consent of Instructor

Student will be given credit for 40 hours in costume or makeup participation.

Note: Each course number may only be taken for credit 1 time with a maximum of 7 practicum hours counting toward the major.

TH 4613: Introduction to Costuming

An examination of the history, theory and practice of costume design. It makes use of lecture, practical experience and personal exploration through a variety of artistic media to help each student understand both the art and technology of costume design.

TH 4821,4831: Practicum in Directing

Prerequisite: Consent of Instructor

Student will be given credit for the assistance in the directing of a full-length production or for the independent directing of a one-act.

TH 4843: Senior Project in Theatrical Performance

Portfolio creation project approved by the department to facilitate graduate school application or professional placement.

TH 4951,4952,4953,4954: Undergraduate Research in Theatre

Offered: On demand

Prerequisite: Departmental approval

Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

TH 4983: Undergraduate Research in Theatre

Prerequisites: Twelve credits in theatre and junior standing.

A directed seminar dealing with a selected topic in theatre studies. May be repeated for credit for different topics.

Note: May not be repeated for credit as TH 5983 unless topic is different.

TH 4991,4992,4993,4994: Special Problems in Theatre

For majors only. Students are accepted by invitation of the instructor.

Vocational Business Education Course Descriptions

(Additional prerequisites for 3000-level and 4000-level courses are listed in the [College of Business](#) section of this catalog.)

VOBE 4023: Methods of Teaching Vocational Business

Prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A methods course designed to prepare the beginning business educator for effective teaching in the contemporary vocational business education classroom. Teaching methodologies for the business education occupational clusters are presented and practiced.

VOBE 4063: Educators-in-Industry

Prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

A course devoted to career awareness in relation to the modern workplace. It is conducted in cooperation with local businesses and industries. The course involves research, on-site instruction, and work experience.

VOBE 4701: Special Methods in Vocational Business

Prerequisite: Admission to student teaching phase of the teacher education program. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog.

Co-requisite: SEED 4909

Intensive on-campus exploration of the principles of curriculum construction, teaching methods, use of community resources, and evaluation as related to teaching vocational business.

Wellness Science Course Descriptions

Activities

WS 1002: Physical Wellness and Fitness

The course provides students with the opportunity to assess their current lifestyle and consider the possible consequences for the present and the future. The class provides a mechanism for change by actively involving the student in self-analysis and a trial exercise program.

Note: This course will satisfy two credit hours of PE activity.

Two scheduled class meetings and two hours arranged. \$10 laboratory fee.

WS 1031: Food, Exercise, and Body Composition

The course provides the student with the opportunity to assess their current lifestyle pertaining to the nutrients consumed in the diet and the amount and type of aerobic exercise participation. Special emphasis is placed on developing an internal locus of control by actively involving the student in self-analysis activities, developing an understanding of nutrient intake and the culminating effects on personal health, and participation in an appropriate aerobic exercise program.

\$10 laboratory fee.

WS 1061: Muscle Fitness for Women

Structured to provide for the development of insights and practices associated with resistive activity as the student accomplishes an individually predicted level of muscle fitness.

\$10 laboratory fee.

WS 1081: Muscle Fitness for Men

Structured to provide for the development of insights and practices associated with resistive activity as the student accomplishes an individually predicted level of muscle fitness.

\$10 laboratory fee.

WS 1091: Fitness Walking/Jogging

The course provides the student with the opportunity to assess his or her personal physical fitness level with trained personnel. Special emphasis is placed on improving the physical fitness level of the student through participation in appropriately designed walking or jogging activity. Students who enroll in the class will submit themselves to the physical fitness protocol administered by the HPE and Wellness faculty members and upper-level majors.

\$10 laboratory fee.

Wellness Science Course Descriptions

Academic

(Additional prerequisites for WS Academic courses are listed in the Wellness and Fitness Programs Option section of this catalog.)

WS 2003: Field-Based Experience in Wellness

Prerequisites: Level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

The class provides the prospective Wellness/Fitness professional with an opportunity to observe on-site a community-based wellness/fitness agency or business. A combination of classroom and on-site experiences will direct the student's focus to various aspects of commercial or institutional programs and services aimed at lifestyle enhancement.

Specific lecture-class meetings and at least 30 hours of observation in an agency or business setting will be required.

WS 2031: Directing Food, Exercise, and Body Composition Programs

Prerequisites: Level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

The course provides the student with the opportunity to assess their current lifestyle pertaining to the nutrients consumed in the diet and the amount and type of aerobic exercise participation. Special emphasis is placed on the methodology of teaching about the development of an internal locus of control by actively involving the student in self-analysis activities, developing an understanding of nutrient intake and the culminating effects on personal health, and participation in an appropriate aerobic exercise program. The course is structured to provide for the development of knowledge and practices of directing food, exercise, and body composition programs employed to accomplish an individually predicted level of physical fitness.

\$10 laboratory fee.

WS 2043: Applied Fitness Assessment and Development

Prerequisites: PE 2653 and PE 3663; level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

A survey and application of the knowledge and experiences in assessing and developing all components of physical fitness.

WS 2081: Directing Muscle Fitness Programs

Prerequisites: Level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

Structured to provide for the development of knowledge and practices of directing resistance training activities used to accomplish an individually predicted level of muscle fitness.

\$10 laboratory fee.

WS 2091: Directing Fitness Walking/Jogging Programs

Prerequisites: Level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

The course provides the Wellness/Fitness major student with the opportunity to assess the physical fitness level of individuals under the supervision of trained personnel. The course is structured to provide for the development of knowledge and practices of directing fitness walking and jogging activities employed to accomplish an individually

predicted level of aerobic fitness. Students who enroll in the class will submit themselves to the physical fitness protocol as well as help administer various evaluation measures to members of a corresponding wellness activity class.

\$10 laboratory fee.

WS 3003: Exercise Prescription

Prerequisites: WS 2043 or consent of department head; level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

A course designed to expose the student to the aspects of health-related and skill-related physical fitness, with particular attention given to prescribing exercise programs. Attention will be given to choosing appropriate fitness assessments, along with development of appropriate goals for clientele.

WS 3023: Exercise Behavior and Adherence

Prerequisites: Level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

The course provides the student with the opportunity to learn about the components which impact exercise behaviors and adherence to physical exercise programs. Emphasis is placed on the identification of components which directly impact on personal motivation for the development of appropriate exercise behaviors, and the development of incentives which assist in adherence to health enhancement programs.

WS 4003: Advanced Professional Seminar

Prerequisites: Completion of all 1000- and 2000-level Wellness Science required classes; level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

This course provides the advanced wellness/fitness major with a setting in which research and contemporary topics critical to the profession may be explored. The student will perform literature research, data gathering, and professional writing/presentation throughout the class.

WS 4012: Wellness and Fitness Program Management Internship

Twelve hour course

Prerequisites: Admission to internship program and 2.00 grade point average; level 3 requires completion of all WS, PE, and HLED content area courses with a grade of C or better and a cumulative GPA of 2.00 or better.

Intensive on-campus classroom exploration of professional principles and procedures used in the areas of health and fitness promotion for the first three weeks of the semester. The remaining portion of the semester is spent in a supervised full-time internship at a designated site.

Fee \$25.

WS 4013: Wellness Science Practicum

Prerequisites: WS 2031, 2043, and 3003

This program is designed to expose majors to training in a community or corporate wellness setting. Students will organize, develop, market, and implement wellness programming for Arkansas Tech University students and employees.

WS 4023: Principles of Strength and Conditioning

Offered: Fall

Prerequisites: PE 2653 and 3661

This course is designed to provide a comprehensive overview of strength and conditioning. Emphasis is placed on the exercise sciences (including anatomy, exercise physiology, and biomechanics) and nutrition, exercise technique, program design, organization and administration, and testing and evaluation. Additionally, this course is designed to prepare students for the nationally accredited Certified Strength and Conditioning Specialist (CSCS) certification exam.

WS 4063: Wellness and Fitness Programming

Prerequisites: Level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

The course is designed to provide the student with the opportunity to discover various methods employed in planning and implementing wellness and fitness programs in multiple settings. Special emphasis is placed on the administration of client-specific health enhancement programs designed for persons in corporate settings, fitness center clientele, and patients in physical rehabilitation.

WS 4991,4992,4993: Special Problems in Wellness Science

Prerequisites: Level 2 courses require completion of the following with a grade of C or better: PE 1201, WS 1002, ENGL 1013, ENGL 1023, MATH 1113, BIOL 1014, and SPH 2173.

Independent work on approved wellness science topics under the individual guidance of a faculty member. Admission requires the consent of the department head.