

ARKANSAS TECH UNIVERSITY - OZARK CAMPUS

2009 -2010 TECHNICAL CATALOG

OZARK, ARKANSAS

HTTP://ATUOC.ATU.EDU

University Mission Statement

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.

Ozark Campus Mission Statement

Arkansas Tech University - Ozark Campus, in partnership with the community, will provide a quality educational environment which will enable all students to learn the skills and acquire the knowledge necessary for them to become contributing members in the workforce and in society.

Accreditation



Arkansas Tech University - Ozark Campus 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 Accreditation

Arkansas State Board of Nursing
University Tower Bldg, Suite 800
1123 South University
Little Rock, Arkansas 72204
(501) 686-2700

National Automotive Technicians Education Foundation
101 Blue Seal Drive, Suite 101
Leesburg, Virginia 20175
(703) 669-6650

Arkansas State Board of Cosmetology
101 East Capitol Avenue, Suite 108
Little Rock, Arkansas 72201
(501) 682-2168

Arkansas Department of Health
Division of EMS & Trauma Systems
4815 W. Markham St., Slot 38
Little Rock, AR 72205
(501) 661-2262

Committee on Accreditation of Educational Programs
for the Emergency Medical Services Professions
1248 Harwood Road
Bedford, TX 76021
(817) 283-9403

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

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

Main Telephone Number/General Information.....	(479) 667-2117
Office of Academic Affairs.....	(479) 667-1707
Office of Student Services.....	(479) 667-3433
Office of Fiscal Affairs.....	(479) 667-2950
Financial Aid.....	(479) 667-2117

For More Information

Arkansas Tech University - Ozark Campus 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 - Ozark Campus prohibits discrimination based on race, color, religion, national origin, sex, age, disability, or veteran status.

Arkansas Tech University - Ozark Campus 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 - Ozark Campus 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, or veteran status.

Arkansas Tech University - Ozark Campus will have an Affirmative Action Plan that contains a set of specific and result-orientated 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 exists. Additionally, Arkansas Tech University - Ozark Campus 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, 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 - Ozark Campus 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 - Ozark Campus to maintain the Institute 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 Institute is concerned and prepared to take action to both 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 on the main campus of Arkansas Tech University in Russellville. 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 on the main campus of Arkansas Tech University in Russellville.

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 - Ozark Campus.

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ACADEMIC CALENDAR

2009 - 2010

Late registration for first term June 1 - 2
 Classes begin June 1
 Last day to register and add courses/change sections June 2
 Last day to officially withdraw/drop courses with 80 percent reduction of tuition June 5
 Preregistration for freshmen for fall semester May - August
 Last day to drop courses with a "W" or change from credit to audit June 26
 First term ends July 2
 Holiday (Friday) July 3

Summer Session 2009 First Term

Late registration for second term July 6 - 7
 Classes begin July 6
 Last day to register and add courses/change sections July 7
 Last day to officially withdraw/drop courses with 80 percent reduction of tuition July 10
 Last day to drop courses with a "W" or change from credit to audit July 31
 Second term ends August 7
 Russellville Campus Graduation August 8

Second Term

Registration August 17 - 18
 Classes begin August 19
 Last day to officially withdraw/drop courses with full reduction of tuition and fees August 20
 Last day to register and add courses/change sections August 25
 Labor Day holiday September 7
 Last day to officially withdraw/drop courses with 80 percent reduction of tuition September 23
 Mid-term October 9
 Deadline for degree audit (transcript evaluation), Spring and Summer 2010 graduates October 9
 Preregistration for spring semester November
 Last day to drop courses with a "W" or change from credit to audit November 18
 Thanksgiving holidays 7:00 a.m., November 25
 - 7:00 a.m., November 30
 Last day of classes December 7
 Reading Day December 8
 Final examinations 6:00 a.m., December 9
 -9:00 p.m., December 15
 Russellville Campus Graduation December 19

Fall Semester 2009

Registration January 7 - 8
 Classes begin January 11
 Last day to officially withdraw/drop courses with full reduction of tuition and fees January 12
 Last day to register and add courses/change sections January 15
 Martin Luther King Day holiday January 18
 Last day to officially withdraw/drop courses with 80 percent reduction of tuition February 15
 Mid-term March 3
 Deadline for degree audit (transcript evaluation), December 2010 graduates March 5

Spring Semester 2010 (tentative)

	Spring holidays	7:00 a.m., March 22 - 7:00 a.m., March 29
	Preregistration for summer and fall semesters	April
	Last day to drop courses with a "W" or change from credit to audit	April 16
	Last day of classes	May 3
	Reading Day	May 4
	Final examinations	6:00 a.m., May 5 - 9:00 p.m., May 11
	Russellville Campus Graduation	May 15
	Ozark Campus Graduation	May 15
Summer Session 2010 (tentative)	Late registration for first term	June 1 - 2
	Classes begin	June 1
	Last day to register and add courses/change sections	June 2
First Term	Last day to officially withdraw/drop courses with 80 percent reduction of tuition	June 7
	Preregistration for freshmen for fall semester	May - August
	Last day to drop courses with a "W" or change from credit to audit	June 25
	First term ends	July 2
Second Term	Holiday	(Monday) July 5
	Late registration for second term	July 6 - 7
	Classes begin	July 6
	Last day to register and add courses/change sections	July 7
	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	July 30
	Second term ends	August 6
	Russellville Campus Graduation	August 7

ADMINISTRATION

Board of Trustees

Charles Blanchard Russellville
John E. Chambers III Danville
Fritz P. Kronberger Russellville
Leigh Burns Whiteside Russellville
Dean Wilburn Harrison

Board of Advisors

Tom Banhart Van Buren
Bruce Coleman Mountainburg
C.A. Kuykendall Ozark
Jimmy Rofkahr Scranton
Bill Rue Ozark
Donald Smith Cecil
Jerry Standridge Booneville
Ron Vest Ozark
Shirley Young Magazine

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

Jo Alice Blondin, 2004 Chancellor
B.A., Purdue University, 1993
M.A./Ph.D., Arizona State University, 1998

Bruce Sikes, 2007 Chief Academic Officer
B.S.E., University of Central Arkansas, 1986
M.S.E., University of Central Arkansas, 2000

Sandra D. Cheffer, 2004 Chief Fiscal Officer
B.S., Illinois State University, 1990
M.B.A., Olivet University, 1999

Richard Harris, 2007 Chief Student Officer
B.A., Arkansas State University, 1997
M.P.A., Arkansas State University, 1999

Administrative Staff

Stephanie Ellis Community Outreach Coordinator of CPI
Heidi Gregory Counselor of Career Pathways Initiative
Tara Johnson Director of Career Pathways Initiative
Laura Rudolph Director of Public and External Relations
Jason Salmans Associate Director of Computer Services
Brenda Shoop Associate Registrar
Leah Stane Academic Advisor
Sherry Tinnerella Librarian
Ken Warden III Business and Industry Coordinator
Deborah Wood Director of Financial Aid

SUPPORT

Linda Allsopp-Stephenson.....Office of Student Services
Julie Atchison.....Office of Student Services/Financial Aid
Sandra Anderson.....Physical Plant Maintenance Supervisor
Kathy Bartlett.....Office of Academic Affairs
Dianne Bell.....Office of Student Accounts/Purchasing
Jared Cagle.....Physical Plant Maintenance
Tracy Chapman.....Physical Plant Maintenance
Debbie Edgin.....Office of Student Services
John Gwatney.....Physical Plant Maintenance
Dirk Hamlin.....Office of Public and External Relations
Stacie Harden.....Office of Student Accounts/Payroll
Brittany Mainer.....Office of Student Services
Sharyl Moffit.....Office of Allied Health
Beverly Nehus.....Office of the Chancellor/Assistant
Christa Nehus.....Bookstore
Mitzi Reano.....Office of Human Resources
Faith Rosson.....Office of Student Services
Charles Stacy.....Physical Plant Maintenance

Support Services Staff

FACULTY

TEKLA BARR, 1990

English and Business Technology Instructor
B.S., University of the Ozarks, 1980

BRIAN BASS, 2008

Automotive Service Technology Instructor
A.A.S., Arkansas Tech University - Ozark,, 2008;

KENNETH BEELER, 2005

Air Conditioning/Refrigeration Instructor
Air Conditioning/Refrigeration, Arkansas Tech University - Ozark Campus, 2004

SHERRY BROWN, 1996

Adult Education Program Coordinator/Instructor
B.S., University of the Ozarks, 1985; M.Ed., University of Arkansas, 1989

JODY CHRISMAN, 1987

Industrial Control Systems Instructor
Electronics Technology, Arkansas Tech University - Ozark Campus, 1982

DANNY CURTIS, 2008

Physical Therapist Assistant Instructor
M.S., University of Central Arkansas, 1994

COREY DANEKAS, 2008

Welding Technology Instructor
A.A.S., Arkansas Tech University - Ozark Campus,, 2008;

JUDY DAVIS, 1991

GED/ABE Instructor
B.S., University of Arkansas, 1969

THERESA FONTAINE, 2007

Practical Nursing Instructor
B.S.N., Arkansas Tech University, 2003

CATHY FULTZ, 1991

Cosmetology Instructor
Cosmetology, Arkansas Tech University - Ozark Campus, 1970
Cosmetology Instructor Training, Arkansas Tech University - Ozark Campus, 1971

LEANN GOINES, 2009

Physical Therapist Assistant Instructor
A.A.S.,Northwest Arkansas Community College, 1993

LANCE GREATHOUSE, 2008

EMT/Paramedic Instructor/Clinical and Internship Coordinator
B.S.,Arkansas Tech University, 2006

CLINTON HALL, 1996

Business Technology Instructor
A.A., University of Arkansas - Fort Smith, Fort Smith, 1989; B.S., Arkansas Tech University, 1992; M. Ed., Arkansas Tech University, 2007

STAN HATCHER, 1998

Collision Repair Instructor
Collision Repair Technology, Arkansas Tech University - Ozark Campus, 1983

NATALIE HELMERT, 2007

Practical Nursing Instructor
B.S.N., Arkansas Tech University, 1999

DEBRA HINES, 1998

Practical Nursing Clinical Instructor
Licensed Practical Nursing, Arkansas Tech University - Ozark Campus, 1971

KENDALL HOPKINS, 2007

Collision Repair Instructor
Industry Certifications, 1993 - 2006

RON HUTAIN, 1984

Industrial Control Systems Instructor
A.A., Chaffey Community College, 1978

SERELDA JOHNSON, 2005

Business Technology/Medical Technology Instructor
A.A.S., Coastal Bend College, 1999; B.S., Arkansas Tech University, 2003

CHARLES LEE, 2005

Mathematics Instructor
B.A., Concordia College, 1993

ESTER LEONARD, 2004

Practical Nursing Instructor
Licensed Practical Nursing, Arkansas Tech University - Ozark Campus, 1985; A.A.S., University of Arkansas - Fort Smith, 1995

BOBBIE LEWIS, 2007

Practical Nursing Clinical Instructor
Practical Nursing, Arkansas Tech University - Ozark Campus, 2002

CHRISTY MCCOLLOUGH, 2006

GED/ABE Instructor
B.A., Arkansas Tech University, 2000

PATRICIA MCCREARY, 1990

Applied Laboratory Technology Instructor
B.A., North Texas State, 1965

ANGIE MEDLOCK, 2002

Business Technology Instructor
B.S., University of the Ozarks, 1980; M. Ed., Arkansas Tech University, 2007

JANET MICKENS, 1983

Practical Nursing Instructor
A.A.S., University of Arkansas Fort Smith, 1977

DEBBIE NEUMEIER, 2007

Cosmetology Instructor
Cosmetology, Arkansas Tech University - Ozark Campus, 1992; Cosmetology Instructor Training, Arkansas Tech University - Ozark Campus, 2006

RITCHIE POWERS, 2007

EMT/Paramedic Instructor

A.S., University of Arkansas for
Medical Sciences, 2005; B.S.,
Arkansas Tech University, 2006;

KALE RUDOLPH, 2007

*Computer Information Systems
Instructor*

B.S., University of Arkansas,
1987; M.S., Arkansas Tech
University, 2007

DANIEL SCHROYER, 2006

*Facilities Maintenance/Management
Instructor*

Air Conditioning and
Refrigeration, Arkansas Tech
University - Ozark Campus, 2004

BOBBY SEWELL, 2006

Automotive Service Instructor

Automotive Service Technology,
Arkansas Tech University -
Ozark Campus, 1981; Advanced
Automotive Service Technology,
Arkansas Tech University - Ozark
Campus, 1982; A.A.S., Arkansas
Tech University - Ozark Campus,
2008

TAMMY VERKAMP, 1998

English Instructor

B.A., Arkansas Tech University,
1981; B.S., Arkansas Tech
University, 1997; M.Ed., Arkansas
Tech University, 1999

DEBBIE WOFFORD, 1979

Business Technology Instructor

B.S., University of the Ozarks,
1977; M.Ed., University of
Arkansas, 1989

VICKY WILLIAMS, 2001

GED/ABE Instructor

B.A., Arkansas Tech University,
1990

GENERAL INFORMATION

The Campus

Arkansas Tech University - Ozark Campus is located along Arkansas Highway 23 North in Ozark, Arkansas. The city of Ozark, with a population of approximately 3,500, is located on the banks of the Arkansas River and is surrounded on the north and south, respectively, by the Ozark and Ouachita National Forests. Located to the west of Ozark is the city of Fort Smith, a commercial and industrial center for western Arkansas. To Ozark's northwest are the cities of Fayetteville, Springdale, Rogers and Bentonville, collectively known as some of the fastest growing commercial centers in the state. Russellville, home to Arkansas Tech University's main campus and an area of vigorous industrial development, is located to the southeast of Ozark on Interstate 40.

History

Arkansas Tech University - Ozark Campus was established in 1965 as Arkansas Valley Vocational Technical School (AVVTS). In September of 1975 the Arkansas State Board of Education/Vocational Education granted accreditation to AVVTS making it the first school of its kind in the state to receive that distinction. Arkansas Valley Vocational School became Arkansas Valley Technical Institute in 1991. On July 1, 2003, Arkansas Valley Technical Institute merged with Arkansas Tech University to become Arkansas Tech University - Ozark Campus.

University Mission Statement

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.

Ozark Campus Mission Statement

Arkansas Tech University - Ozark Campus, in partnership with the community, will provide a quality educational environment which will enable all students to learn the skills and acquire the knowledge necessary for them to become contributing members in the workforce and in society.

Programs of Study

In carrying out its mission, Arkansas Tech University – Ozark Campus offers programs of study leading to Associate of Applied Science degrees with options in the following areas:

- Associate of Applied Science in Allied Health
 - Paramedic/Emergency Medical Services
 - Practical Nursing

- Associate of Applied Science in Physical Therapist Assistant (pending approval)
 - Physical Therapist Assistant

- Associate of Applied Science in Business Technology
 - Business Technology
 - Business Technology Banking
 - Business Technology Medical

- Associate of Applied Science in General Technology
 - Air Conditioning and Refrigeration
 - Facilities Management option
 - Applied Laboratory Technology
 - Automotive Service Technology
 - Collision Repair Technology
 - Computer Information Systems
 - Cosmetic Science
 - Industrial Control Systems
 - Industrial Systems
 - Law Enforcement
 - Welding Technology

Programs of Study leading to technical certificates are offered in the following areas:

- Air Conditioning and Refrigeration

- Facilities Maintenance option
- Automotive Service Technology
- Business Technology
 - Business Technology Banking option
- Business Technology Medical Transcription
- Collision Repair Technology
- Computer Information Systems
- Cosmetology
- Enology (pending approval)
- Industrial Control Systems
- Industrial Electronic Technology
- Law Enforcement
- Paramedic/Emergency Medical Services
- Practical Nursing
- Viticulture (pending approval)
- Welding Technology

Programs of Study leading to certificate of proficiency are offered in the following areas:

- Basic Emergency Medical Services Training
- Certified Nursing Assistant
- Intermediate Emergency Medical Services Training

The physical plant of Arkansas Tech University - Ozark Campus includes nine buildings on approximately 26 acres. The administration building houses classrooms, administrative offices, Business and Industry, Career Pathways Initiative, and workforce education. Other buildings on campus are: Air Conditioning and Refrigeration, Allied Health Building (EMT/Paramedic/Nursing), Collegiate Center (Business Department), Industrial Control Systems, Student Services and Conference Center, West Annex, and the Booneville Training Site located in Booneville, Arkansas. All buildings are handicapped accessible. The cleaning and maintenance of all buildings and property is under the direction of the Physical Plant supervisor.

Physical Plant

In the event of inclement weather, Arkansas Tech University – Ozark Campus may be unable to operate our normal schedule. When campus is closed for inclement weather, the following television and radio stations will be notified by 6:00 a.m.:

Inclement Weather Policy

- KTCS Fort Smith
- KDYN 96.7 Ozark
- KHBS 40/29 Fort Smith
- KFSM Channel 5 Fort Smith
- KARK 4
- KISR 93.7 Radio
- B98 Radio 97.9
- KMAG 99.1 Radio
- Big Dog 95.9 Radio
- KWHN AM 1320 Radio

When daytime classes are canceled, night classes are also canceled. The outlying areas sometimes experience inclement weather (snow, ice, and etc.). Even though the campus is not closed in these events, all faculty, staff, and students are advised to use their judgment in determining if the roads are safe to travel. Remember, your safety is our utmost concern!

Please note that our campus emergency notification text system will not be used to notify faculty, staff and students of campus closure due to inclement weather.

In case of severe weather, students will be notified and are asked to follow the emergency guidelines posted in each room.

Severe Weather Policy

ADMISSION

Individuals who meet the admission requirements listed below may apply to Arkansas Tech University - Ozark Campus. The University reserves the right to reject the application of any individual. Every student must submit an application for admission. Applications and additional information about Arkansas Tech University - Ozark Campus are available from the Office of Student Services, Arkansas Tech University - Ozark Campus, 1700 Helberg Lane, Ozark, Arkansas, 72949.

Students may download an application from the Arkansas Tech University - Ozark Campus web site at <http://atuoc.atu.edu/> or email for additional information via atuoark@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. Arkansas Tech is subject to and endorses both the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. The Disabilities Coordinator can be contacted by calling (479) 667-2117.

Beginning June 1, 2007, all students at Arkansas Tech University will be assigned a permanent, randomly generated, student identification number, known as a "T" number. Student's social security numbers will be used only on applications for admission and solely for the purposes of Federal reporting requirements and determination of eligibility for Federal financial aid.

All students must provide proof of immunity (2 inoculations) against measles, mumps and rubella by way of an official record from another educational institution, certificate from a licensed medical doctor, or an authorized public health department representative. Students seeking enrollment at Arkansas Tech University - Ozark Campus must provide proof of appropriate immunizations.

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 Freshmen New Students

New students to Arkansas Tech University - Ozark Campus 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. 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.
2. Composite ACT score of 13 or above, or equivalent score on SAT Reasoning Test (formerly SAT-1) or COMPASS Exam. Note: SAT exam scores are to include the SAT Reasoning Test averages for mathematics and critical reading only. Writing exams for neither ACT nor SAT are required. Scores cannot be more than five years old.

¹ American College Testing Program's ACT Assessment Test

² College Board's Scholastic Aptitude Test

³ College Board's Test of Standard Written English

Freshmen Placement Standards

In accordance with Arkansas Code of 1987 Annotated, paragraph 6-61-110, first-time entering students (including students who entered college the summer of 1995 or thereafter and students who enter with advanced standing) 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 mathematics section may enroll in college-level mathematics courses. Students not meeting the standard must successfully complete a developmental (precollege 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 460 or above on the verbal section of SAT-I 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, 460 or above on the verbal 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 earn a grade of “C” or better in all developmental courses before the student may advance to higher level courses.

Students who have interrupted their attendance at Arkansas Tech University - Ozark Campus must reapply for admission. Academic clemency may be granted in accordance with the clemency policy detailed in the Regulations and Procedures section.

Degree Completion for Returning Students

Technical course work taken after July 1, 2003 will be considered for application toward a degree, contingent upon the grade requirements for the major as well as overall GPA.

Technical course work taken prior to July 1, 2003 will be considered at the recommendation of program faculty.

Students returning to pursue an Associate of Applied Science degree who have not yet earned a degree and meet requirements to earn the Associate of Applied Science degree by having previously taken all required technical course work and general education requirements either at Arkansas Tech University or an accepted accredited transfer institution may earn the Associate of Applied Science degree by successfully completing a minimum of 3 additional hours at an Arkansas Tech University campus.

Students pursuing an Associate of Applied Science degree who have previously earned a degree must complete an additional 30 hours and meet all requirements for the Associate of Applied Science degree.

Transfer students making application for admission to Arkansas Tech University - Ozark Campus must submit official transcripts from all colleges/universities where they were 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 or SAT 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

Former Students

Transfer Students

provisionally pending receipt of the transcript, but the University reserves the right to require immediate withdrawal if the transfer transcript does not meet admission requirements.

Degree Completion for Transfer Students

To earn a degree, student must complete at least 50% of technical course work at Arkansas Tech University – Ozark Campus.

Transfer credit will not count toward the overall GPA.

Students returning to pursue an Associate of Applied Science degree who have not yet earned a degree and meet requirements to earn the Associate of Applied Science degree by having previously taken all required technical course work and general education requirements either at Arkansas Tech University or an accepted accredited transfer institution may earn the Associate of Applied Science degree by successfully completing a minimum of 3 additional hours at an Arkansas Tech University campus.

Students pursuing an Associate of Applied Science degree who have previously earned a degree must complete an additional 30 hours and meet all requirements for the Associate of Applied Science degree.

Transfer Credit

The following policy is effective January 2, 2007. Credit from colleges and universities accredited by one of the eight U.S. regional accreditation associations will be accepted for transfer credit. Credit from U.S. colleges and universities not accredited by one of the six regional accreditation associations 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. A maximum of 68 semester hours of acceptable credit may be transferred from community colleges. **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/>.

Conditional Admission

First-time entering freshmen students who have been denied admission may file a written appeal addressed to the Chief Student Officer seeking conditional admission. The appeal should be made within ten calendar days from the date admission was denied and should state applicant's grounds for appeal. Transfer students who are denied admission may file a written appeal addressed to the Chief Student Officer. The appeal should 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 - Ozark Campus 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 nondegree 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 Student Services at (479) 667-3433.

Arkansas Tech University - Ozark Campus welcomes the opportunity to serve area schools by complementing their programs with special opportunities for students to enroll for courses and earn credit by attending Arkansas Tech University - Ozark Campus 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 - Ozark Campus 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 course(s) and grade(s) recorded for credit. If student chooses not to have course(s) and grade(s) recorded, student must notify the Office of Student Services in writing within thirty days of the end of the term or semester. Students must reapply each term or semester they attend. The course(s) agreed upon by the student and their high school must also be approved for each term or semester attended by the Chief Student Officer.

Entering students are required to provide Arkansas Tech University - Ozark Campus with American College Testing (ACT) Assessment scores for purposes of admission, academic placement, and the awarding of academic scholarships. Arkansas Tech University - Ozark Campus will not accept ACT score reports that are more than five years old. Students 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 COMPASS preceding their first semester. The ACT, which covers English, mathematics, reading and science reasoning, is administered five 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 on the main campus in Russellville 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 or <http://www.act.org>.

Please check with your local high school, college, university or the Arkansas Tech University Testing Center for the 2009-2010 test schedule.

Entering Students are required to provide Arkansas Tech University - Ozark Campus with American College Testing (ACT) Assessment or Computerized-Adaptive Placement Assessment and Support System (COMPASS) scores for purposes of admission and academic placement. Entering students, who have been out of an educational setting for three or more years and who have not taken the ACT or COMPASS prior to arrival at Arkansas Tech University - Ozark Campus, are encouraged to take the COMPASS. The COMPASS is administered on the computer and consists of three tests: writing, math, and reading. Assessment scores that are more than five years old will not be accepted. Information about the COMPASS can be obtained by calling (479) 667-2117.

For information about retention and graduation rates at Tech, please contact the Office of Institutional Research.

Arkansas Tech University - Ozark Campus encourages students to meet with an academic advisor to help select a major. 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.

Some 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 Associate of Applied Science degree (see "General Education Requirements" on page 30). Students enrolling as "undecided" majors will be assigned to the Office of Student Services. The Office of Student Services is located in the Administration building and can be contacted by calling (479) 667-3433. Students

High School University Admissions

ACT (American College Testing) Program

COMPASS (Computerized-Adaptive Placement Assessment and Support System)

Student Retention and Graduation Rates Selecting a Major Field

Undecided Study

enrolled as undecided may select a major at any time; however, a student must select a major during the semester in which student earns 45 semester credit hours.

Procedure for Scheduling Courses

Detailed procedures for registration/preregistration are available on the university web site at <http://atuoc.atu.edu>. 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 and pay tuition/fees.

Course Information

All courses taught at Arkansas Tech University - Ozark Campus are listed alphabetically by subject area in the back of the catalog. 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.

Degree Completion

Degree-seeking students enrolled at an Arkansas Tech University campus must complete their degree as follows:

- Bachelor's Degree - Ten semesters or six years, whichever is longer
- Associate Degree - Six semesters or three years, whichever is longer
- Certificate - Four semesters or two years, whichever is longer.

Students who fail to complete their degree or certificate requirements within the time allotted will be ineligible for continued or future enrollment at any Arkansas Tech University campus unless special permission to enroll is granted by the Chief Student Officer. Such permission shall be granted only upon a showing of good cause.

FEES AND EXPENSES

General

Tuition and all other fees and charges are due prior to the beginning of each term and payable in the Student Accounts office. Registration is not complete until all financial obligations have been satisfied. Failure to make financial settlement may result in cancellation of the student's class schedule.

Financial settlement, which consists of tuition and fees, may be made by personal payment or authorized financial aid (loans, scholarships, grants, third parties, etc.). Visa and MasterCard are accepted for all charges and payments may be made in person, online, or mailed to the Student Accounts office at 1700 Helberg Lane, Ozark, AR 72949. Students who wish to schedule payments for their account balance may enroll in a payment plan by accessing <http://stuacct.s.atu.edu> and clicking on the eCashier link. If you choose this plan, the full account balance will be budgeted along with any subsequent charges incurred for the semester.

Billing statements are payable upon receipt. Student accounts issues bills electronically and they are accessible through each student's OneTech account. The current balance on a student's account may be accessed with the student's T number (identification number). Invoices for fall and spring are available approximately thirty days prior to the first day of class. For questions concerning billing please contact the Student Accounts office at 479-667-2950.

A credit balance on a student's account will be refunded to the student in the form of a check or direct deposit. You may enroll in direct deposit by accessing your account from the Student tab on OneTech and click on "Direct Deposit your Refund Check!" Funds are generally in your account by the second day after your refund appears on your student account.

Students may pick up refund checks and Student ID's in the Student Accounts office by presenting a photo ID.

Fees and Expenses

Prices quoted are rates currently in place for the 2009 -2010 academic year. All rates are subject to change as necessary.

Technical Tuition	\$55 per credit hour
Undergraduate Tuition	\$161 per credit hour
Instructional Support Fee*	\$4 per credit hour
Strategic Facilities Init. Fee*	\$4 per credit hour
Student Activity Fee	\$25 (full-time, Spring and Summer) \$5 (part-time, and Summer)
Technology Fee	\$5 per credit hour
Transcript Fee	\$5
Graduation Fee	\$25
Parking Permit	\$15
Parking Fees and Fines:	See "Traffic Regulations" on page 26 (All Students Parking on Campus Must Have Parking Permits.)
Replacement of ID Card	\$25

* Applies to undergraduate coursework only

Payment of Accounts

Tuition and all other fees and charges are due prior to the beginning of each term at the Office of Student Accounts, located in the Administration building. Financial settlement, which consists of tuition and fees, may be made by personal payment or **authorized** financial aid (loans, scholarships, grants, third parties, etc.). Visa and MasterCard credit cards are accepted for all charges. An alternate payment plan is offered via the web site: <http://stuacct.s.uakron.edu>. Registration is not complete until all financial obligations have been satisfied. Failure to make financial settlement may result in cancellation of the student's class schedule.

The student's "T" number is assigned as the student's account number for billing purposes.

Billing statements are payable upon receipt. Preregistration invoices for fall and spring are mailed approximately thirty days prior to the first day of class. Students must return the top portion of the preregistration invoice along with applicable payment by the due date.

Students with delinquent accounts are not eligible for diplomas, transcripts, recommendations, advance registration, or readmission to any term. Collection fees for outstanding debts owed to Arkansas Tech University - Ozark Campus may be assessed to the student.

Arkansas Tech University - Ozark Campus 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 as well as to new students.

Reduction of Fees and Charges

Students officially withdrawing from the school by the end of the fifth day of the semester in a summer term, as listed in the "Academic Calendar" on page iv, will receive an 80 percent reduction of tuition for courses in which they are enrolled in at the time of withdrawal. No reduction in tuition or fees will be made after the fifth day of the summer semester. No reduction in fees will be made beginning with the first day of class of the summer term.

Reduction of Tuition for Official Withdrawal

Students registering for the fall or spring semester but officially withdrawing from Arkansas Tech University - Ozark Campus by the end of the second day of the semester, as listed in the "Academic Calendar" on page iv, will receive a 100 percent reduction of tuition and fees. 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 the 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 second day of the semester.

If a student withdraws and 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 Family Education Loan Programs, Federal Perkins Loan Program, Federal PLUS Loan Program, Federal Pell Grant Program, Federal SEOG Program, Arkansas Department of Higher Education Programs, Arkansas Tech-Ozark 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 Office of Fiscal Affairs.

The student will be ineligible for any further Federal financial aid until the required payments are made.

Reduction of Tuition/ Fees for Dropping to Fewer Hours

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" on page iv, 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 once the summer session begins.

Students dropping to fewer hours for the fall or spring semester by the end of

the second day of the semester, as listed in the "Academic Calendar" on page iv, will receive a 100 percent reduction of tuition and fees for the courses dropped. Thereafter, students dropping to fewer hours before the end of the twenty-fifth day of the semester will receive an 80 percent reduction of tuition. No reduction will be made after the twenty-fifth day of the semester. No reduction in fees will be made after the second day of the semester.

STUDENT SERVICES OPERATIONS

Bookstore

The Arkansas Tech University - Ozark Campus Bookstore is located in the Administration Building. Textbooks, school supplies, and other items may be purchased. Information about required course materials and additional program costs can be accessed in the bookstore, financial aid office and online.

Disability Services for Students

Arkansas Tech University - Ozark Campus is committed to providing equal opportunities for higher education to academically qualified individuals who are disabled. Students with disabilities attending Arkansas Tech University - Ozark Campus will be integrated as completely as possible into the institution community. Arkansas Tech University - Ozark Campus 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 feasible and without posing an undue hardship on the institution.

Services arranged through the Disabilities Coordinator include consideration of classroom and building accessibility, planning for adequate travel time between classes, note-taking assistance, alternative testing, and similar types of accommodations.

Arkansas Tech University - Ozark Campus is subject to and endorses both the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. The Disabilities Coordinator serves as the coordinator for these federal programs. The Disabilities Coordinator is located in the Administration Building, Arkansas Tech University - Ozark Campus, Ozark, AR 72949, and can be contacted by calling (479) 667-2117, or by E-mail ozark.disabilities@atu.edu.

Student Financial Aid

The primary purpose of student financial aid at Arkansas Tech University - Ozark Campus 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 institution 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 institution are considered supplementary to the efforts of the student's family in assisting their children with educational expenses. All awards are administered by the Financial Aid Office in accordance with the university's equal educational opportunity policy. Application forms for all types of aid may be obtained from the Financial Aid Office.

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, travel and personal expenses. Since the most recent federal regulations allow the cost of a computer to be added to the cost of attendance one time during the post-secondary 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 receipt of documentation of a computer purchase. 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 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) 667-2117.

Act 1180 of 1999 prohibits postsecondary institutions from using public funds in a student aid package which exceeds the cost of attendance at that institution. Arkansas Tech University - Ozark Campus follows the Arkansas Department of Higher Education regulations by reducing scholarship amounts which cause awards to exceed cost of attendance. Scholarships awarded by Tech will be reduced before other scholarships. If a student has both academic and performance scholarships from Tech, the academic scholarship will be reduced first. If a Departmental Performance Scholarship has to be reduced, the supervisor will be informed of the reduction in hours of service. In the absence of direction from a private donor, all private funds will be split equally between fall and spring semesters. For more information on the scholarship stacking policy, contact the Financial Aid Office: (479) 667-2117, extension 322.

Scholarship Stacking Policy

Students may receive only one Tech funded scholarship in any semester. 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. All students applying for a Tech scholarship must complete the FAFSA prior to scholarship deadlines. For more information on the scholarship stacking policy, contact the Financial Aid Office at the Ozark Campus.

Scholarships

Scholarships are awarded by semester. Deadlines are: June 1 for the Fall semester and November 1 for the Spring semester. Student must have a minimum cumulative grade point average (GPA) of 3.25 and a minimum ACT score of 21 to apply. Application(s) are to be submitted to the Financial Aid Office at the Ozark Campus. Students must reapply for the scholarship each semester.

Chancellor's Scholarship

Scholarships are awarded by semester. Deadlines are: June 1 for the Fall semester and November 1 for the Spring semester. Student must have a minimum cumulative grade point average (GPA) of 3.00 or greater to apply. Application(s) are to be submitted to the Financial Aid Office at the Ozark Campus. Students must reapply for the scholarship each semester.

Academic Excellence Scholarship

Scholarships are awarded by semester. Deadlines are: June 1 for the Fall semester and November 1 for the Spring semester. Any student demonstrating financial need may apply. Preference will be given to students experiencing financial hardship and who do not qualify for other aid. Application(s) are to be submitted to the Financial Aid Office at the Ozark Campus. Students must reapply each semester.

Financial Assistance Scholarship

This policy applies to funds received through the Federal Pell Grant, the Federal Work Study, the Federal Perkins Loan, the Federal Supplemental Educational Opportunity Grant, the Federal Subsidized Stafford Loan, the Federal Unsubsidized Stafford Loan, the Federal Parent Loan (Plus) for Undergraduate Students.

The standards will be applied automatically and without favor or prejudice, with progress being checked at the end of each fall and spring semester.

Any appeal of this policy must be made in writing to the Financial Aid Academic Policy Appeal Committee and turned into the Financial Aid Office within thirty-days of the notification of non-compliance.

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 course(s).

Students must meet all conditions of the policy. Noncompliance with any section will result in loss of aid. Financial Aid will not be paid retroactively for any semester's lost eligibility.

Academic Standards for Students Receiving Financial Aid Through Federally Funded Programs

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 do re-enroll with the approval of the Admissions Council.

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

Institutional Academic Suspension

Satisfactory Academic Progress

Undergraduates

1. A student is considered making satisfactory academic progress as a full-time student if the total credits earned (with a grade of "D" or better) are:

# of Semesters	Minimum Hours Earned
1	9
2	21
3	33
4	48
5	60
6	72
7	84
8	96
9	108
10	120

NOTE: ALL part-time students must always earn the number of hours in which they are enrolled. Incomplete, repeat, and audit classes are counted as hours attempted. 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. Students may use summer hours earned at Tech to fulfill the academic progress requirement. Hours earned at another institution will not meet the requirement.

2. **Transfer students** will be assigned an "equivalent semesters attended" based on the number of hours accepted by the Registrar's Office rounded down to the nearest quarter semester. Example: A student with fifty-four transfer hours would have "equivalent semesters attended" of 4.5 (54 divided by 12 = 4.5). It is the student's responsibility to make sure transfer transcripts are on file with the Registrar.
3. A student must receive a bachelor's degree by the end of six (6) years of full-time attendance, an associate's degree by the end of three (3) years of full-time attendance and a certificate by the end of one and one-half (1.5) years of full-time attendance. Allowances will be made for semesters involving required remedial course work and certificates which require more than one year. All fall and spring semesters attended will be counted whether a student received financial aid during the semester or not. Students may use summer hours earned at TECH to fulfill the academic progress requirement. Hours earned at another institution will not meet the requirement. Less than full-time semesters will be counted proportionally. (See chart below:)

1 - 5 hours	.25 semester
6 - 8 hours	.50 semester
9 - 11 hours	.75 semester
12+ hours	1 semester

4. Students granted academic clemency will have all semesters attended counted on the basis of attempted hours and actual attendance.
1. Full-time students must earn an average of twelve hours per semester; part-time students must earn the hours for which they enroll each semester.
2. Funds may be received for no more than three certificates and two associate degrees.

Subsequent Credentials

1. 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 following regular (fall and spring) 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. To continue on aid, this GPA must be maintained for all remaining semesters. No appeal will be granted for anyone in violation of the **required cumulative 2.0 GPA.**
2. 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.

Students must maintain a 2.0 G.P.A. each semester.

During each undergraduate 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 programs when a student withdraws or receives all grades of “F”. Students who must repay funds will be notified of the amount by the Financial Aid Office.

General – Students use the Free Application for Federal Student Aid (FAFSA) (File online at www.fafsa.ed.gov) and list Arkansas Tech University, Russellville AR (001089) as one of the schools to receive information. Federal Student Aid includes grants, loans and work study.

Priority Deadline – To receive equal consideration, a student must have a complete application on file by April 15 for fall and October 15 for spring. 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.**

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 are eligible for the 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.

The purpose of the Supplemental Educational Opportunity Grant is to provide the means for a college education to qualified students of exceptional need. Each grant is awarded according to federal guidelines.

When funds are available, the institution 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 Arkansas Tech University - Ozark Campus.

Required Grade Point Average

Subsequent Credentials Withdrawals

Application for Federal Student Aid

Federal Pell Grant

Federal Supplemental Educational Opportunity Grant

Student Employment

Federal Family Education Loans

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

Federal Subsidized Stafford Student Loans

The Federal Stafford Student Loan program authorizes loans up to \$3,500 per year for first-year undergraduates and all certificate students and \$4,500 for second year students. Under this program a student must financially qualify for the loan which is borrowed from a bank or other financial institution.

Repayment of principal and interest ordinarily begins six months after the student leaves school or ceases to be at least a halftime student. The amount of the monthly payments will be based on the total amount borrowed.

Federal Unsubsidized Stafford Loans

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 Stafford and Unsubsidized Stafford Loans may not exceed the student's yearly maximum.

Federal PLUS Loans

Parents of students who do not qualify for the Federal Stafford Loan may borrow annually the amount of the student's cost of education minus other aid for each child who is enrolled at least halftime 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 Plus loan has a fixed interest rate with the borrower beginning payment within sixty days of loan disbursement. All loan checks will be written as co-payable to the parent and the educational institution.

Additional Federal Unsubsidized Stafford Loans

Independent students may borrow up to \$4,000 per year for the first two years of undergraduate study and \$5,000 per year thereafter with an undergraduate maximum of \$23,000. Borrowers do not have to show need but do have to apply for financial aid and may have to undergo a credit analysis. Interest must be paid beginning sixty days after disbursement of the loan unless the lender agrees to defer it.

Over 60 Tuition Waiver

Students who are sixty or older 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.

Arkansas Technical Careers Student Loan Forgiveness Program

The Arkansas Technical Careers Student Loan Forgiveness Program was created by Act 652 of 1999. The program is designed to assist and encourage people to enter and complete programs qualifying them to fill the demands for employees in various technical occupations. Student loans may be forgiven up to \$2,500 per year for a maximum of four years (\$10,000 max). High demand career fields are determined annually by the State Board of Workforce Education and Career Opportunities. Further information may be obtained from the Department of Workforce Education at (501) 682-1500 or by visiting their web site at <<http://dwe.arkansas.gov/LoanForgiveness/atcsifp.htm>>.

Workforce Investment Act

The Workforce Investment Act (WIA) is a Federal program designed to provide training for unemployed or underemployed persons if definite employment opportunities are available in a training field. Financial assistance may cover tuition, books, fee/ supplies, and transportation. A student wanting to make application for WIA assistance should call or write to a local employment office or career development center. Information concerning the programs of study available to WIA eligible candidates may be obtained from the Arkansas Tech University - Ozark Campus Financial Aid Office in the Administration Building or call (479) 667-2117, extension 322.

Arkansas Tech University - Ozark Campus 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 Office of Student 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 35, Survivors and Dependents Education; Title 10, Chapter 1606, Montgomery GI Bill for Selective Reserves; and Chapter 1607, Reserve Educational Assistance Program (REAP).

All students must be working toward an Associate of Applied Science degree or a technical certificate 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 Financial Aid Office is available to assist students concerning VA benefits. The Financial Aid Office is located in the Administration Building.

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.

This program is designed to provide training for qualified individuals. To receive financial assistance students need an American Indian card and appropriate documentation. If you think you might qualify for this program, contact the American Indian Center, 1100 N. University, Suite 143, Little Rock, AR 72207. AIC's telephone number is 1-800-441-4513.

The purpose of this program is to provide educational assistance to qualified students under AHDC's farm workers program. The program may pay tuition, fees, books, supplies, and a weekly allowance to the trainee. To be eligible, a student must have derived 51% of his/her gross income from the past year from farm-related employment or be a dependent of a farm worker who derived 51% of his or her gross income from farm work. The AHDC representative will make the determination as to student eligibility.

This program may pay for the eligible student's tuition, fees, books, and supplies. To receive financial assistance under this program, a student must have a physical or mental disability that has been diagnosed as a handicap, have a financial need, and be approved by the area rehabilitation counselor. A student wanting to make application for rehabilitation assistance should call or write to a local rehabilitation office.

Students with eligible expenses may qualify for a Hope Scholarship Credit or Lifetime Learning Tax Credit. IRS form W-9 must be completed and filed in the Arkansas Tech University - Ozark Campus' Business Office to receive credit. Qualified tuition and fees, excluding MPI, are the only eligible expense which may be claimed by a qualified taxpayer.

The programs listed below are awarded and administered by the Arkansas Department of Higher Education. Further information and applications may be obtained by writing to: Arkansas Department of Higher Education, 114 East Capitol, Little Rock, AR 72201, or by calling 1-800-547-8839 or online at: <http://www.adhe.edu/>.

A college scholarship plan to promote academic achievement and encourage academically prepared Arkansas high school graduates to enroll in the state's colleges and universities. The scholarship provides \$2,500 for the freshman year, \$2,750 for the sophomore year and is renewable provided the student meets the continuing eligibility standards established by the Arkansas Department of Higher Education. This scholarship will not displace any other state grants or scholarships unless required by state or federal regulations. Names of recipients may be released to the news media to recognize the accomplishments of the recipients. This scholarship is available to students seeking an associate degree or higher and is not available to technical certificate seeking students.

Award is made based on the applicant meeting minimum standards with regard to the ACT composite score, grade point average (GPA) in the pre collegiate core curriculum defined by the State Board of Higher Education, and financial need.

Veterans Benefits

American Indian Center

Arkansas Human Development Corporation

Vocational Rehabilitation

Hope and Lifetime Learning Credits

Arkansas Department of Higher Education

Arkansas Academic Challenge Scholarship

Activities and Organizations

Arkansas LPN Association

Arkansas Tech University - Ozark Campus offers several activities and organizations for its students. There are few members of the student body who do not take part in one or more of these activities.

Practical Nursing Students belong to the Arkansas Licensed Practical Nursing Association and the National Association of Licensed Practical Nurse. The activities of the Arkansas LPN Association are an integral part of the instructional program that provides occupational skills as well as leadership skills.

The Arkansas LPN Association provides workshops and speakers on current nursing needs and skills.

The students are assisted in developing the skills and abilities that will lead to successful employment in the nursing profession.

National Technical Honors Society

The National Technical Honor society requires members to maintain a high standard of personal and professional conduct at all times, strive for excellence in all aspects of education and employment, refuse to engage in or condone activities for personal gain at the expense of their fellow students, school or employer.

Students interested in joining the society must maintain an overall grade point average of 3.0 or higher, a 3.25 grade point average in courses in their majors; have one or more faculty members' recommendation; and active involvement in student government, CTSO, civic or service organization.

Phi Beta Lambda

Phi Beta Lambda (PBL) is the national organization of students enrolled in programs of business education or computer information systems on the post-secondary level. The organization, composed of more than 450 chapters, operates as a liaison between instructors, state supervisors, school administrators, and members of the business community.

The activities of PBL provide opportunities for business students to establish occupational goals and facilitate the transition from school to work. Members of PBL learn how to engage in individual and group business enterprises, how to hold office and direct the affairs of the group, how to work with other organizations and how to compete honorably with their colleagues on the local, state, and national levels.

PBL helps build competent, aggressive business leadership; strengthen the confidence of students in themselves and in their work; develop character; prepare for useful citizenship; foster patriotism; and practice efficient money management.

Skills USA

Skills USA (VICA) is active at all state post-secondary schools. Membership in these clubs is open to students, former students, and other persons interested in the various career fields represented.

The purpose of VICA clubs is to help the student develop social and leadership skills. Activities which enhance the development of these skills will be conducted by the clubs' members and advisors. The activities may include events between post-secondary schools and between students, such as parliamentary procedure contests between schools, troubleshooting contests for Automotive Service Technology students, etc.

Each club elects officers from its membership to serve as follows: President, Vice President, Secretary, Treasurer, Reporter, and Parliamentarian.

Student Government Association

A Student Government Association is elected each school year at Arkansas Tech University - Ozark Campus. This group will be representing the student body during school activities. They will also be responsible for planning student activities throughout the year. The Student Government Association selects the outstanding student of the year at Arkansas Tech University - Ozark Campus. This student will be given the Bob Adams Outstanding Student Award at graduation each year.

REGULATIONS AND PROCEDURES

All students must give prompt attention to communications from faculty and staff members of Arkansas Tech University - Ozark Campus. Most communications will be sent through the United States mail or to your official Tech E-mail address.

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, plagiarism or misconduct.

If an occurrence of academic dishonesty or misconduct is detected, the instructor should refer to the "Conduct Violations" outlined in the *Student 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 Dishonesty

The faculty must also accept a responsibility to clarify and interpret for the students matters of academic misconduct especially those concerning 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.

Involvement in such activities as conspiracy or breaking and entering is to be reported to the Chief Student Officer for appropriate action through regular institution's disciplinary channels.

Academic Misconduct

Students will be placed on academic probation whenever their semester grade point falls below 2.0 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 Probation

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 University - Ozark Campus with those of the spring semester immediately preceding in order to establish eligibility for retention.

Academic Suspension

Suspension means that the student will not be allowed to attend Arkansas Tech University - Ozark Campus 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 appeal to the Chief Student Officer for a hearing. Students who meet the semester/year stipulation must file a request for readmission with the Office of Student Services.

Students on academic suspension who wish to transfer to Arkansas Tech University - Ozark Campus may be granted the opportunity to be conditionally admitted on academic probation.

The deadline for adding courses or changing courses or sections is given in the academic calendar (see "Academic Calendar on page iv); 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 with a grade of "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 Office of Student Services after obtaining written approval of their academic advisor. Failure to complete this procedure can result in a grade of "F" being entered on the student's record. *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". Courses dropped subsequent to this time will be recorded as "F" (see "Academic Calendar" on page iv).*

Adding/Dropping Courses

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 subject to the same regulations as other students with regard to registration and attendance, but they do not take examinations or 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 the 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

It is 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 Chief Student Officer.

Course Overload

Students who enroll above the maximum loads without securing permission from the Chief Student Officer may be dropped from their classes. To be considered for a course overload, the student must submit a petition to the Chief Student Officer 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 school if in the last semester before graduation.

The maximum overload permitted in any school 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 Student Services.

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, a student who has not attended Arkansas Tech University - Ozark Campus for a period of at least three years may apply to have the grades and credits for one or more consecutive terms or semesters earned prior to the three year separation removed from his/her grade point average. Any student who has previously attended Arkansas Tech University - Ozark Campus may qualify to request academic clemency providing the following criteria are met.

After re-entering Arkansas Tech - Ozark, following a separation of at least three years, a student may request academic clemency at the Office of Student Services for approval by the Chief Student Officer. The student must specify the term or consecutive terms for which academic clemency is desired. Any petition for academic clemency must be requested and granted prior to the beginning of the second semester of enrollment after returning to Arkansas Tech - Ozark. 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.

For purposes of degree requirements, a student who received academic clemency must follow the provisions of the catalog in effect at the time of re-enrollment.

Academic clemency does not restore eligibility for student financial aid or scholarships.

Conduct

Arkansas Tech University - Ozark Campus 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 Arkansas Tech University - Ozark Campus 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*.

Honor Rolls

Students whose grade point at the end of each semester is 4.00 will be placed on the Chancellor's Roll for outstanding scholarship. Students whose grade point at the end of each semester is 3.50 or better will be placed on the Honor Roll. Recognition will be accorded these students through appropriate news media.

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 disclosure 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 Trustees; 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

Family Educational Rights and Privacy Act

Directory Information

“Directory information” at Arkansas Tech University - Ozark Campus 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 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) 667-3433.

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 at the end of each semester. Mid-term grades are reported for freshmen 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 complete an “Incomplete Grade Contract”, setting a reasonable time limit within the following semester in which the work must be completed. The incomplete grade contract is to be signed by both the instructor and student. 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.

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 Chief Academic Officer.

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.

Repeated Courses

Students may repeat courses they have taken at Arkansas Tech University - Ozark Campus for the purpose of grade point adjustments (1) only by re-enrolling in the same courses at Arkansas Tech University - Ozark Campus and (2) subject to the following provisions. For repeated 1000- and 2000- level courses, only the grade from the last 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. Adjustments to cumulative grade points are not made for courses transferred from other colleges or universities.

Student Records

Student academic records are maintained in Office of Student Services. 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 Office of Student Services.

Registration of vehicles shall be accomplished at the time of regular registration for the fall, spring or summer semesters and may be done at the Office of Student Services located in the Student Services and Conference Center. All faculty, staff and students must present a valid picture 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 Office of Student Services. 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, charges are assessed to the student's account at the Office of Student Accounts. 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 - Ozark Campus 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.

A student who wishes to withdraw from school during a semester is required to follow the official withdrawal procedure which requires reporting to the Office of Student Services. 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 Chief Student Officer may waive the requirement that grades of "F" be recorded if the circumstances forcing a withdrawal justify special consideration.

While every effort will be made to conform to catalog announcements, the school reserves the right to adapt its program as may be necessary.

Withdrawals

University Policy

CURRICULA

The following abbreviations are used in describing curricula listed in this catalog:

Associate of Applied Science in Allied Health

EMTP	Paramedic/Emergency Medical Services
LPN	Practical Nursing
CNA	Certified Nursing Assistant (Certificate of Proficiency only)

Associate of Applied Science in Business

BUS	Business Technology
	Business Technology - Banking option
	Business Technology - Medical

Associate of Applied Science in General Technology

ACR	Air Conditioning/Refrigeration
FAC	Facilities Management
AST	Automotive Service Technology
CIS	Computer Information Systems
COS	Cosmetic Science
CRT	Collision Repair Technology
ICS	Industrial Control Systems
LE	Law Enforcement
PTA	Physical Therapist Assistant
TACR	Air Conditioning
TDFT	Blueprint Reading
TELT	Electronic Technology
TIPM	General Industrial Plant Maintenance
TMAC	Machining
TMAT	Mathematics
WLD	Welding Technology

Associate of Arts

ART	Art
AMST	American Studies
ANTH	Anthropology
BIOL	Biology
CHEM	Chemistry
COMS	Computer Information Science
ECON	Economics
ENGL	English
GEOL	Geology
HIST	History
JOUR	Journalism
MATH	Mathematics
MUS	Music
PHIL	Philosophy
PHSC	Physical Science
PHYS	Physics
POLS	Political Science
PSY	Psychology
READ	Reading
RP	Recreation and Park Administration
SOC	Sociology
SPH	Speech
TH	Theatre

GRADUATION REQUIREMENTS

Associate of Science degrees are offered in allied health with major areas of emphasis in paramedic/emergency medical services, and practical nursing; business with major areas of emphasis in business technology, business technology banking and business technology medical; general technology with major areas of emphasis in air conditioning and refrigeration, automotive service, applied laboratory, computer information systems, cosmetic science, collision repair, facilities management, industrial control systems, law enforcement and welding. Arkansas Tech University - Ozark Campus is seeking approval for an Associate of Applied Science degree in Physical Therapist Assistant.

Technical certification is offered in air conditioning and refrigeration, automotive service technology, business technology, business technology banking, business technology medical transcription, collision repair technology, computer information systems, cosmetology, enology, facilities maintenance, industrial control systems, industrial plant maintenance, law enforcement, paramedic/emergency medical services, practical nursing, viticulture and welding technology.

Proficiency certification is offered in nursing assistant, basic emergency medical services and intermediate emergency medical services.

Effective Fall 2005 new, transfer, or returning students must choose to complete requirements for graduation under the provisions of the 2005 - 2006 Arkansas Tech University - Ozark Campus catalog or any subsequent catalog provided they were enrolled at the university during the year the catalog was in effect. **The catalog a student selects to use to complete degree requirements may require departmental approval and approval of the Office of Student Services if significant curriculum changes have occurred.**

For effective use of the result of its constant reexamination of student needs as a means for improving its total educational program, 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.

Candidates for graduation must complete a degree audit and an application for graduation. Students completing graduation requirements at the end of the fall semester must submit to the Office of Student Services 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 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 fall 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.

A graduation fee, payable at the Office of Fiscal Affairs, is assessed when the application for graduation is approved. If the student fails to complete all graduation requirements, an additional graduation fee will be assessed for the next semester or term in which graduation is planned.

Before any transcript is issued, the student must have paid any debt owed the university.

**Degree Audit and
Application for
Graduation**

Graduation Fee

**Financial
Obligation**

Graduation Honors

The Associate of Applied Science 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. **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 Student Services for clarification of the policy.**

Commencement Participation

Participation in commencement is required of all candidates for degrees except in cases involving hardship. The student may officially petition the Chief Student Officer for the degree to be awarded in absentia.

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.

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. 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 following commencement.

Requirements for Associate of Applied Science Degrees

The requirements for the associate of applied science degree are outlined under each program of study. Associate of applied science programs include a general education component consisting of a minimum of 15 semester credit hours in English, mathematics, social sciences, and computer applications. In addition to the general education component, each program will require a technical component consisting of 45-56 hours. Please refer to individual programs of study for specific requirements. In addition to completing the necessary hours prescribed, candidates for associate of applied science degrees must meet the following requirements:

A. Residence

1. The last 30 semester hours of work toward a degree must be done in residence.
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.

B. Hours of Credit and Grades

1. Refer to major field of study for semester hour requirements.
2. 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.
3. No more than 50% of technical coursework may be transferred into a program.
4. An official record of any correspondence or transfer work completed at another institution must be on file in the Office of Student Services prior to the end of the semester or term in which graduation is planned.

Requirements for Additional 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" above.

Students pursuing an associate degree must use the Arkansas Tech University - Ozark Campus 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. No catalog prior to 2005 - 2006 may be selected.

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 and complete the following curriculum:

Curriculum	Hours
General Education Courses ¹	37
Electives	25
Total	62

¹See "General Education Requirements" on page 30.

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 1103 Algebra for General Education
- MATH 1113 College Algebra
- Any higher level mathematics course

Science – 8 hours

Four hours of a biological science with laboratory from one of the following:

General Education Requirements

BIOL 1014 Introduction to Biological Science OR

Any higher level biology course that includes a lab (Note that BIOL 1014 is specifically designed to meet general education objectives and is highly recommended unless you meet the prerequisites for a different course specified by your major).

Four additional hours of a physical science with laboratory from one of the following:

PHSC 1013 Introduction to Physical Science AND

PHSC 1021 Physical Science Laboratory

CHEM 1114 Survey of Chemistry

CHEM 2124 General Chemistry I

GEOL 1004 Essentials of Earth Science

GEOL 1014 Physical Geology

PHYS 1114 Applied Physics

PHYS 2014 Physical Principles I

PHYS 2024 Physical Principles II

PHYS 2114 General Physics I

PHYS 2124 General Physics II

PHSC 1053 Astronomy AND PHSC 1051 Observational Astronomy Lab OR

PHSC 3053 Astronomy AND PHSC 3051 Observational Astronomy Lab

Physical Activity – 2 hours

Two hours from the following:

Physical education activity courses

Recreation (RP) coeducational activity courses

Wellness science activity courses

Theatrical dance activity

Appropriate military science courses completed through cross-enrollment agreement with UCA.

Fine Arts – 3 hours

Three hours from one of the following:

*ART 2123 Experiencing Art

MUS 2003 Introduction to Music

TH 2273 Introduction to Theatre

*ENGL 2173 Introduction to Film

*JOUR 2173 Introduction to Film

Art Majors:

Art Education Majors Take ART 2123

Fine Arts and Graphic Design majors take any of the above options except ART 2123

Music Majors:

Any of the above course options except MUS 2003

Humanities – 3 hours

Three hours from one of the following:

*ENGL 2003 Introduction to World Literature

ENGL 2013 Introduction to American Literature

PHIL 2003 Introduction to Philosophy

Social Sciences – 12 hours

Three hours from one of the following:

HIST 2003 U.S. History to 1865
HIST 2013 U.S. History from 1865
POLS 2003 American Government

Nine additional hours from the following:

*HIST 1503 World Civilization I
*HIST 1513 World Civilization II
HIST 2003 U.S. History to 1865
HIST 2013 U.S. History from 1865
POLS 2003 American Government
ECON 2003 Principles of Economics I
SOC 1003 Introductory Sociology
PSY 2003 General Psychology
*ANTH 1213 Introduction to Anthropology OR
*ANTH 2003 Cultural Anthropology
*GEOG 2013 Regional Geography of the World
AMST 2003 American Studies

*Of the above 18 hours in Fine Arts, Humanities, and Social Science, three hours must be from one of the following:

ART 2123 Experiencing Art
ENGL 2173 Introduction to Film
JOUR 2173 Introduction to Film
ENGL 2003 Introduction to World Literature
HIST 1503 World Civilization I
HIST 1513 World Civilization II
ANTH 1213 Introduction to Anthropology OR
ANTH 2003 Cultural Anthropology
GEOG 2013 Regional Geography of the World

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."

State Minimum Core

ADULT EDUCATION

Program Coordinator
Sherry Brown

Mission Statement

General Information

Program Options

This program is designed to meet the needs of the adult learner who does not possess a high school diploma or would like to improve basic skills in computer, math, English, or literacy.

Arkansas Tech University – Ozark Campus Adult Education is committed to motivating and encouraging our students to continue their education and to function as a competent member of society.

The Arkansas Tech University – Ozark Campus Adult Education is fully approved and funded by the Department of Workforce Education, Adult Education Section.

Adult Education is available to those students who require the Arkansas High School Diploma or who require training or retraining for employment.

Basic Skills Enhancement provides a review of academic areas for the high school graduate in need of upgrading skills to enter higher education, military, or the workforce.

English as a Second Language (ESL) allows adults to learn to speak, read, and write English as their second language.

Workplace classes may be arranged with local businesses or industries to upgrade employees' basic skills needed on the job. Contact 479.667.3520 for more information.

Locations

Booneville Adult Education Center
2932 State Hwy 10 East
Booneville, AR 72927
479-675-4326
Instructor: Christy McCollough

Ozark Adult Education Center
1700 Helberg Lane
Ozark, AR 72949
479-667-3520
Instructor: Vicky Williams

Paris Adult Education Center
103 East Pine Street
Paris, AR 72855
479-963-6962
Instructor: Judith Davis

BUSINESS AND INDUSTRY

Business and Industry Training

The Business and Industry Training Program strives to meet the needs of the service community by providing instruction appropriate to the needs of area businesses. Training programs are customized to the requests of the specific business. Assistance establishing appropriate instruction opportunities for individuals and groups as well as assistance securing training grant funds is available.

Mission

Arkansas Tech University - Ozark Campus' Business and Industry Program works to create a professional effective workforce by meeting the customized training needs of the community and assisting in regional economic development efforts.

Non-credit Instruction

Instruction is customized to the needs of a specific business. Examples of some of the non-credit courses offered include:

Communication

- Conflict Resolution
- Motivating Employees
- Problem Solving
- Running Effective Meetings

Computer Skills

- Microsoft Excel
- Microsoft Word
- Microsoft Powerpoint
- Microsoft Windows

Leadership and Strategy

- Diversity
- Sales and Marketing Optimization
- Strategy Development
- Team Building
- Time Management

Manufacturing

- Lean Manufacturing/Lean Office
- Quality Systems (ISO, etc)
- Six Sigma, Lean Six Sigma

Miscellaneous

- Conversational Spanish
- Environmental, Health and Safety (OSHA, ROHS-WEE, etc.)
- Finance and Accounting

Paramedic/EMS

- Advanced Cardian Life Support
- Basic Life Support CPR Classes
- Basic and Advanced EMS Training Refresher
- Basic and Advanced Prehospital Trauma Life Support
- Pediatric Advanced Life Support

Technical Skills

- Welding
- Industrial Controls
- Hydraulics, Pneumatics
- Maintenance (mechanical or electrical)

Program Coordinator
Ken Warden

CAREER PATHWAYS INITIATIVE

**Program Coordinator
Tara Johnson**

The Arkansas Career Pathways Initiative is a new program that enables Arkansas Tech University – Ozark Campus to offer, to those who qualify, help with overcoming the barriers that keep parents from receiving the training and education needed to succeed in today's workforce. Career Pathways provides parents with services and resources needed to capture high wage / high demand careers.

Career Pathways provides a framework for connecting a series of educational programs with integrated work experience and support services. This combination of structured learning creates achievable stepping-stones for career advancement of adult workers and increases the pool of qualified workers needed by Arkansas employers.

Features of the Career Pathways program include:

- An educational pathway that starts with employability skills and adult education.
- "Bridge" programs that prepare educationally disadvantaged students to enter college-level academic courses by teaching developmental or basic skills, saving the student both time and money. Includes specialized assistance to improve skills necessary for competency exams, such as the Nursing Entrance Test.
- Enhanced student services that include career assessment, advising, and tutoring to enhance student success. Also includes job search skills, training, and job placement assistance.
- Credentials for specific occupations that can be built upon as the student advances in his or her career and education.
- Outreach via community-based organizations and other groups to recruit and serve students underrepresented in higher education.
- Internship and student mentoring services for real-world experience as well as increased job placement outcomes.
- Career Pathways may be able to assist eligible parents with fuel, child care, books, tuition, supplies, and testing fees. Assistance is limited by available funds and program rules.

Eligibility

You must be a parent with children under age 21 living in your home
You must be receiving Department of Human Services benefits such as Food Stamps, ARKids First, Transitional Employment Assistance (TEA) benefits, OR have an annual income below 250% of the federal poverty level as specified below:

Size of Family	Annual Income Limit
2	\$35,000
3	\$44,000
4	\$53,000
5	\$62,000
6	\$71,000
7	\$80,000
8	\$89,000
For each additional person, add \$9000	

Location:
Administration Building, Rooms 103 and 105
Arkansas Tech University – Ozark Campus
1700 Helberg Lane
Ozark, AR 72949
479 667-3390

AIR CONDITIONING AND REFRIGERATION

The air conditioning and refrigeration industry offers a bright future for people who wish to prepare for entry into this profession. This field includes sales, installation, maintenance, service and operation of equipment not only in residential settings, but also in commerce and industry.

The Facilities Maintenance/Management program offers training in addition to the Air Conditioning and Refrigeration course work to enable graduates to pursue broader employment opportunities. Course work prepares students for careers in facilities and grounds maintenance fields. Students pursuing the Associate of Applied Science degree will be better prepared to pursue positions that will lead to promotion and management positions in the facilities and grounds maintenance fields.

Students are required to take the Industry Competency Exam, a test in residential air conditioning and heating, and the EPA certification test before graduation.

Program Chair
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**Air Conditioning
 and
 Refrigeration**

Curriculum in Air Conditioning/Refrigeration Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
ACR 1203	Fundamentals of Electricity	3
ACR 1205	Tubing and Piping	5
ACR 1301	Industrial Safety in Air Conditioning and Refrigeration	1
ACR 1302	Basic Compression and Refrigeration	2
BUS 1003	Business English or	
ENGL 0303	Foundational Composition or	3
ENGL 1013	Composition I	
BUS 1023	Business Mathematics or	3
MATH 0803	Beginning Algebra (or higher math)	
	Total	17
Spring		
ACR 1222	Industrial Controls	2
ACR 1503	Electronic Components	3
ACR 1602	Schematics	2
ACR 2102	Residential Systems	2
ACR 2104	Heat Gain and Loss	4
	Total	13
1st Summer		
ACR 2112	Air Conditioning Service	2
ACR 2904	Internship (or approved elective)	4
	Total	6

Curriculum in Air Conditioning/Refrigeration Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
ACR 1203	Fundamentals of Electricity	3
ACR 1205	Tubing and Piping	5
ACR 1301	Industrial Safety in Air Conditioning and Refrigeration	1
ACR 1302	Basic Compression and Refrigeration	2
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		17
2nd Semester		
ACR 1222	Industrial Controls	2
ACR 1503	Electronic Components	3
ACR 1602	Schematics	2
ACR 2102	Residential Systems	2
ACR 2104	Heat Gain and Loss	4
ENGL 1023	Composition II	3
Total		16
3rd Semester		
	Any Approved Social Science ¹	3
ACR 2112	Air Conditioning Service*	2
ACR 2134	Boiler Operations	4
COMS 1003	Introduction to Computer Based Systems or	
COMS 2003	Microcomputer Application or	3
BUS 1303	Introduction to Computers	
Total		12
4th Semester		
ACR 2114	Industrial Refrigeration	4
ACR 2124	Sheet Metal	4
ACR 2904	Internship (or approved elective)*	4
WLD 1403	Welding for Trades and Industry	3
Totals		15
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30 *Usually offered Summer I term		

Curriculum in Air Conditioning/Refrigeration Facilities Maintenance Option Technical Certificate

Facilities Maintenance Option

Course Number	Course Name	Semester Hours
Fall		
ACR 1203	Fundamentals of Electricity	3
ACR 1205	Tubing and Piping	5
ACR 1301	Industrial Safety in Air Conditioning and Refrigeration	1
ACR 1302	Basic Compression and Refrigeration	2
BUS 1003	Business English	
	or	
ENGL 0303	Foundational Composition	3
	or	
ENGL 1013	Composition I	
WLD 1302	Metallurgy	2
	Total	16
Spring		
ACR 1222	Industrial Controls	2
ACR 1503	Electronic Components	3
ACR 1602	Schematics	2
BUS 1023	Business Mathematics	
	or	
MATH 0803	Beginning Algebra (or higher math)	3
FAC 2202	Carpentry (or approved elective)	2
FAC 2212	Plumbing (or approved elective)	2
	Total	14
1st Summer		
ELT 2123	Industrial Fluid Power	3
FAC 2203	Facilities Analysis and Troubleshooting (or approved elective)	3
	Total	6
(Suggested approved electives include: AST 1004, BUS 1073, CRT 1124, ICS 1104, and ICS 1303)		

**Facilities
Management Option**

**Curriculum in Air Conditionin/Refrigeration
Facilities Management Option
Associate of Applied Science Degree in General Technology**

Course Number	Course Name	Semester Hours
1st Semester		
ACR 1203	Fundamentals of Electricity	3
ACR 1205	Tubing and Piping	5
ACR 1301	Industrial Safety in Air Conditioning and Refrigeration	1
ACR 1302	Basic Compression and Refrigeration	2
ENGL 1013	Composition I	3
WLD 1302	Metallurgy	2
Total		16
2nd Semester		
ACR 1222	Industrial Controls	2
ACR 1503	Electronic Components	3
ACR 1602	Schematics	2
FAC 2202	Carpentry (or approved electives)	2
FAC 2212	Plumbing (or approved electives)	2
MATH 0903	Intermediate Algebra (or higher math)	3
Total		14
3rd Semester		
ACR 2134	Boiler Operations	4
ELT 2115	<i>or</i> Programmable Controllers	5
BUS 2143	Introduction to Management	3
COMS 1003	Introduction to Computer Based Systems	
COMS 2003	<i>or</i> Microcomputer Applications	3
BUS 1303	<i>or</i> Introduction to Computers	
ELT 2123	Industrial Fluid Power	3
FAC 2203	Facilities Analysis and Troubleshooting (or approved electives)	3
Total		16 or 17
4th Semester		
	Any Approved Social Science ¹	3
ACR 2904	Internship*	4
ENGL 1023	Composition II	3

**Curriculum in Air Conditionin/Refrigeration
Facilities Management Option
Associate of Applied Science Degree in General Technology
*Continued***

FAC 2222	Grounds Maintenance (or approved electives)	2
WLD 1403	Welding for Trades and Industry	3
Total		15

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30. (Suggested approved electives include: AST 1004, BUS 1073, CRT 1124, ICS 1104, and ICS 1303)

*Usually offered in Summer I term

APPLIED LABORATORY TECHNOLOGY

Program Chair
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Applied Laboratory Technology

The Applied Laboratory Technology program provides training and academic instruction that enables students to become competent, effective lab technicians able to work in the areas of quality control, quality assurance, and chemical analysis in environmental testing, food processing, and industrial manufacturing.

The technical certificate in Applied Laboratory Technology is currently inactive. Students who have previously earned this certificate may return to pursue the Associate of Applied Science degree.

Curriculum in Applied Laboratory Technology Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
ALT 1104	Introduction to Applied Microbiology	4
ALT 1112	Government Regulations	2
ALT 1122	Food Science	2
ALT 1132	Introduction to Quality Control	2
ENGL 1013	Composition I	3
MATH 1113	College Algebra	3
Total		16
2nd Semester		
ALT 1202	Introduction to Statistical Process Control	2
ALT 1203	Introduction to Chemistry	3
ALT 1212	Food Grades and Standards	2
ALT 1214	Applied Food/Environmental Microbiology	4
COMS 2003	Microcomputer Applications	3
Total		14
3rd Semester		
ALT 1301	Food Sanitation	1
ALT 1311	Industrial Safety in ALT	1
BIOL/PHSC 1004	Principles of Environmental Science	4
BUS 1043	Professional Communications	3
CHEM 2124	General Chemistry I	4
ENGL 1023	Composition II	3
Total		16

Curriculum in Applied Laboratory Technology
Associate of Applied Science Degree in General Technology
Continued

**4th
Semester**

	Any Approved Social Science ¹	3
ALT 2904	Internship	4
BIOL 1014	Introduction to Biological Sciences	4
BUS 1053	Spreadsheets	3
	Total	14

¹ See appropriate alternatives or substitutions in
"General Education Requirements" on page 30

AUTOMOTIVE SERVICE TECHNOLOGY

Program Chair
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Instructor
Brian Bass

Automotive Service Technology

The field of automotive service and repair has become so specialized and technical that the demand for trained technicians increases daily. The Automotive Service Technology program currently holds a certification from the National Automotive Technicians Education Foundation (NATEF), and offers courses in all eight certification areas.

Each student will be required to purchase a tool kit approved by the instructor. Students will be asked to take the NOCTI exam before graduation.

Curriculum in Automotive Service Technology Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
AST 1003	Automotive Electronics	3
AST 1004	Gasoline Engine Theory	4
AST 1005	Engine Performance	5
BUS 1003	Business English	
ENGL 0303	or Foundational Composition	3
ENGL 1013	or Composition I	
Total		15
Spring		
AST 1103	Automotive Brake Systems	3
AST 1113	Introduction to Automotive Drive Trains	3
AST 1213	Automotive Chassis and Steering	3
BUS 1023	Business Mathematics	
MATH 0803	or Beginning Algebra	3
CRT 1103	Automotive Welding	3
Total		15
1st Summer		
AST 1203	Automotive Climate Control	3
AST 2103	Advanced Automotive Electronics	3
Total		6

Curriculum in Automotive Service Technology

Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
AST 1003	Automotive Electronics	3
AST 1004	Gasoline Engine Theory	4
AST 1005	Engine Performance	5
ENGL 1013	Composition I	3
Total		15
2nd Semester		
AST 1103	Automotive Brake Systems	3
AST 1113	Introduction to Automotive Drive Trains	3
AST 1203	Automotive Climate Control*	3
AST 1213	Automotive Chassis and Steering	3
CRT 1103	Automotive Welding	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		18
3rd Semester		
AST 1223	Advanced Automotive Drive Trains	3
AST 1903	Internship (or approved elective)	3
AST 2103	Advanced Automotive Electronics *	3
ENGL 1023	Composition II	3
WLD 1403	Welding for Trades and Industry	3
Total		15
4th Semester		
	Any Approved Social Science ¹	3
AST 2113	Advanced Engine Performance	3
AST 2903	Internship (or approved elective)	3
COMS 1003	Introduction to Computer Based Systems	
	or	
COMS 2003	Microcomputer Applications	3
	or	
BUS 1303	Introduction to Computers	
Total		12

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30

*Usually offered in Summer I term

BUSINESS TECHNOLOGY

Program Chair
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Instructors
Tekla Barr
Clinton Hall
Serelda Johnson
Charles Lee
Angela Medlock

Business Technology

The Business Technology program is designed to prepare students for careers as an administrative assistant, accounting clerk, computer operator, or office manager. Students will gain the technical and computer knowledge for meeting the necessary skills to attain positions in their chosen field. Given the necessary time on the job to build expertise and accumulate experience, students can take advantage of opportunities to advance. Students can choose from one of the three programs of study: Business Technology, Banking, or Medical Transcription. Comprehensive computer classes and their applications prepare students for the MOS (Microsoft Office Specialist) certification

The Business Technology Banking program of study will prepare students for careers in the banking industry. Course work is designed to provide the banking industry with skilled employees who possess strong communication, math, critical thinking, computer skills, and knowledge of banking processes and procedures.

The Business Technology Medical Transcription program of study will prepare the student for employment as a medical transcriptionist and to be a participating member of the healthcare team. Students will acquire skills to transcribe medical dictation or code medical records with accuracy, clarity, and timeliness, while applying the principles of professional and ethical conduct.

Curriculum in Business Technology Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
BUS 0903	Keyboarding w/ Lab	3
BUS 1003	Business English	3
ENGL 0303	or Foundational Composition	
ENGL 1013	or Composition I	
BUS 1023	Business Mathematics	3
MATH 0803	or Beginning Algebra (or higher math)	
BUS 1073	Accounting	3
BUS 1303	Introduction to Computers	3
Total		15
2nd Semester		
BUS 1013	Word Processing I	3
BUS 1033	Administrative Support Procedures	3
BUS 1043	Professional Communication	3
BUS 1053	Spreadsheets	3
BUS 2133	Multimedia	3
Total		15
3rd Semester		
BUS 2113	Word Processing II	3
BUS 2123	Computer Applications for Accounting	3
Total		6

Curriculum in Business Technology Option
Associate of Applied Science Degree in Business Technology

**Business
Technology Option
Associate of Applied
Science**

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1013	Word Processing I	3
BUS 1073	Accounting	3
COMS 1003	Introduction to Computer Based Systems	
	<i>or</i>	
COMS 2003	Microcomputer Applications	3
	<i>or</i>	
BUS 1303	Introduction to Computers	
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		15
2nd Semester		
BUS 1033	Administrative Support Procedures	3
BUS 1053	Spreadsheets	3
BUS 1063	Legal Environment for Business Technology	3
BUS 2113	Word Processing II	3
ENGL 1023	Composition II	3
Total		15
3rd Semester		
BUS 1043	Professional Communication	3
BUS 1083	Introduction to Economics	3
BUS 2123	Computer Applications for Accounting	3
BUS 2133	Multimedia	3
BUS 2143	Introduction to Management	3
Total		15
4th Semester		
	Any Approved Social Science ¹	3
BUS 2153	Database Management	3
BUS 2163	Desktop Publishing	3
BUS 2903	Internship (or approved elective)	3
BUS 2993	Special Topics for Business Technology	3
Total		15
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30		

Business Technology Banking

Curriculum in Business Technology - Banking Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
BUS 0903	Keyboarding w/Lab (or other elective if competency met)	3
BUS 1003	Business English	3
ENGL 0303	or Foundational Composition	
ENGL 1013	or Composition I	
BUS 1303	Introduction to Computers	3
BUS 2313	Deposit Operations	3
Total		15
2nd Semester		
BUS 1013	Word Processing I	3
BUS 1033	Administrative Support Procedures	3
BUS 1053	Spreadsheets	3
BUS 1083	Introduction to Economics	3
BUS 2303	Money and Banking	3
BUS 2333	Loan Operations	3
Total		18
3rd Semester		
BUS 1073	Accounting	3
BUS 1043	Professional Communication	3
Total		6

Curriculum in Business Technology - Banking Option
Associate of Applied Science Degree in Business Technology

**Business
 Technology Banking
 Option
 Associate of Applied
 Science**

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1073	Accounting	3
BUS 2303	Money and Banking	3
BUS 2313	Deposit Operations	3
BUS 1303	Introduction to Computers or	3
COMS 1003	Introduction to Computer Based Systems or	
COMS 2003	Microcomputer Applications	
ENGL 1013	Composition I	3
Total		15
2nd Semester		
BUS 1013	Word Processing I	3
BUS 1033	Administrative Support Procedures	3
BUS 1043	Professional Communication	3
BUS 2333	Loan Operations	3
ENGL 1023	Composition II	3
Total		15
3rd Semester		
BUS 1053	Spreadsheets	3
BUS 1083	Introduction to Economics	3
BUS 2123	Computer Applications for Accounting	3
BUS 2143	Introduction to Management	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		15
4th Semester		
	Any Approved Social Science ¹	3
BUS 1063	Legal Environment for Business Technology	3
BUS 2153	Database Management	3
BUS 2903	Internship (or approved elective)	3
BUS 2993	Special Topics for Business Technology	3
Total		15
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30		

**Business
Technology
Medical
Transcription**

**Curriculum in
Business Technology - Medical Transcription
Technical Certificate**

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1003	Business English or	
ENGL 0303	Foundational Composition or	3
ENGL 1013	Composition I	
BUS 1073	Accounting	3
BUS 1303	Introduction to Computers	3
BUS 2213	Introduction to Human Anatomy	3
BUS 2233	Medical Terminology	3
Total		15
2nd Semester		
BUS 1033	Administrative Support Procedures	3
BUS 1043	Professional Communication	3
BUS 1013	Word Processing I	3
BUS 2223	Medical Transcription I	3
BUS 2253	Medical Coding I	3
Total		15
3rd Semester		
BUS 2243	Disease Processes	3
BUS 2263	Medical Coding II ¹ or	3
BUS 2273	Medical Transcription II ¹	
Total		6

¹Students may choose to take either BUS 2273 Machine Transcription II or BUS 2263 Medical Coding II.

**Curriculum in Business Technology - Medical Transcription Option
Associate of Applied Science Degree in Business Technology**

**Business
Technology
Medical Option
Associate of Applied
Science**

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1063	Legal Environment for Business	3
BUS 2213	Introduction to Human Anatomy	3
BUS 2233	Medical Terminology	3
COMS 1003	Introduction to Computer Based Systems	3
COMS 2003	Microcomputer Applications	
BUS 1303	Introduction to Computers	
ENGL 1013	Composition I	3
Total		15
2nd Semester		
BUS 1013	Word Processing I	3
BUS 2253	Medical Coding I	3
BUS 1043	Professional Communication	3
BUS 2223	Medical Transcription I	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		15
3rd Semester		
BUS 1033	Administrative Support Procedures	3
BUS 1053	Spreadsheets	3
BUS 1073	Accounting I	3
BUS 2263	Medical Coding II	3
ENGL 1023	Composition II	3
Total		15
4th Semester		
	Any Approved Social Science ¹	3
BUS 1083	Introduction to Economics	3
BUS 2243	Disease Processes*	3
BUS 2273	Medical Transcription II	3
BUS 2903	Internship (or approved elective)	3
Total		15
[*] Usually offered in Summer I term. ¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30		

COLLISION REPAIR TECHNOLOGY

Program Chair
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Instructor
Kendall Hopkins

Collision Repair Technology

The work of the collision repair technician consists of those jobs that require knowledge of automotive construction and a relatively high degree of manual dexterity. Students enrolled in this program will become skilled in frame alignment, dent removal, replacing damaged parts, color matching, painting, and basic principles of air brushing.

Curriculum in Collision Repair Technology Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
CRT 1103	Automotive Welding	3
CRT 1114	Metal Repair I	4
CRT 1124	Painting I	4
CRT 1134	Color Matching I	4
Total		15
Spring		
BUS 1003	Business English or	
ENGL 0303	Foundational Composition or	3
ENGL 1013	Composition I	
CRT 1214	Metal Repair II	4
CRT 1224	Painting II	4
CRT 1234	Color Matching II	4
Total		15
1st Summer		
CRT 1312	Air Brushing	2
CRT 1322	Detailing	2
CRT 1332	Cost Analysis of Collision Repair	2
Total		6

Curriculum in Collision Repair Technology

Associate of Applied Science Degree in Business Technology

Course Number	Course Name	Semester Hours
1st Semester		
CRT 1103	Automotive Welding	3
CRT 1114	Metal Repair I	4
CRT 1124	Painting I	4
CRT 1134	Color Matching I	4
Total		15
2nd Semester		
CRT 1214	Metal Repair II	4
CRT 1224	Painting II	4
CRT 1234	Color Matching II	4
ENGL 1013	Composition I	3
Total		15
3rd Semester		
	Any Approved Social Science ¹	3
CRT 1312	Air Brushing *	2
CRT 1322	Detailing *	2
CRT 1332	Cost Analysis of Collision Repair *	2
ENGL 1023	Composition II	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		15
4th Semester		
AST 1003	Automotive Electronics	3
AST 1103	Automotive Brake Systems	3
AST 1203	Automotive Climate Control*	3
AST 1213	Automotive Chassis and Steering	3
BUS 1303	Introduction to Computers	
	or	
COMS1003	Introduction to Computer Based Systems	3
	or	
COMS 2003	Microcomputer Applications	
Total		15

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30

*Usually offered in Summer I term

COMPUTER INFORMATION SYSTEMS

Program Chair
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Computer
Information
Systems

With the growing importance of computers in the workplace and the emphasis on more sophisticated technologies, qualified computer technicians are in high demand. This program is designed to provide individuals with the knowledge and skills needed to become network administrators. Training includes microcomputer operating systems, basic networking skills, computer repair and troubleshooting skills, and Internet knowledge.

Curriculum in Computer Information Systems Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
BUS 1003	Business English or	
ENGL 0303	Foundational Composition or	3
ENGL 1013	Composition I	
BUS 1023	Business Mathematics or	3
MATH 0803	Beginning Algebra (or higher math)	
CIS (ICS) 1103	Programming I	3
CIS 1113	Fundamental Computer Operation	3
CIS (ICS) 1153	Networking I	3
Total		15
Spring		
CIS 1203	Programming II	3
CIS 1213	Operating Systems	3
CIS (ICS) 1223	Networking II	3
CIS 1233	System Analysis and Design	3
CIS 1243	HTML Programming	3
Total		15
1st Summer		
CIS (ICS) 1143	Introduction to Digital Logic	3
CIS (ICS) 1303	PC Maintenance	3
Total		6

Curriculum in Computer Information Systems

Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
CIS (ICS) 1103	Programming I	3
CIS 1113	Fundamental Computer Operation	3
CIS (ICS) 1153	Networking I	3
BUS 1303	Introduction to Computers <i>or</i>	3
COMS 1003	Introduction to Computer Based Systems <i>or</i>	
COMS 2003	Microcomputer Applications	
MATH 0903	Intermediate Algebra (or higher math)	3
Total		15
2nd Semester		
CIS 1203	Programming II	3
CIS 1213	Operating Systems	3
CIS (ICS) 1253	Networking II	3
CIS 1233	System Analysis and Design	3
CIS 1243	HTML Programming	3
Total		15
3rd Semester		
	Any Approved Social Science ¹	3
BUS 2153	Database Management	3
CIS (ICS) 1303	PC Maintenance*	3
CIS 2133	Web Page Design	3
ENGL 1013	Composition I	3
Total		15
4th Semester		
CIS (ICS) 1143	Introduction to Digital Logic*	3
CIS 2143	Help Desk Support	3
CIS 2153	Programming in C++	3
CIS 2903	Internship (or approved elective)	3
ENGL 1023	Composition II	3
Total		15
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30 *Usually offered in Summer I term		

COSMETOLOGY

Program Chair
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Instructor
Debbie Neumeier
Cosmetology

This program is designed to prepare students for professional licensing in the cosmetology field. Students are taught the basic techniques of hair care, chemical relaxing, professional ethics, sanitation, manicuring, facials, salon management, and rules and regulations as designated by the state.

The Arkansas State Board of Cosmetology requires an individual to successfully complete 1500 clock hours in order to qualify for the state cosmetology licensing examination. In addition to admission requirements for this program, a student must submit a copy of their social security number, drivers license, copy of high school transcript or proof of GED, and a \$20 money order made payable to the Arkansas Board of Cosmetology for a temporary training permit.

Curriculum in Cosmetology Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
COS 1101	Hygiene and Sanitation I	1
COS 1110	Hairdressing I w/Lab	10
COS 1121	Related Science I	1
COS 1131	Manicuring I	1
COS 1141	Cosmetic Therapy I	1
COS 1151	Salesmanship, Shop Management and Shop Department I	1
Total		15
2nd Semester		
COS 1201	Hygiene and Sanitation II	1
COS 1210	Hairdressing II w/Lab	10
COS 1221	Related Science II	1
COS 1241	Cosmetic Therapy II	1
COS 1251	Salesmanship, Shop Management and Shop Department II	1
Total		14
Summer Term		
COS 1231	Manicuring II	1
COS 2405	Theory and Practical Application	5
Total		6

Curriculum in Cosmetology Technical Certificate *Continued*

3rd Semester

COS 2301	Hygiene and Sanitation III	1
COS 2310	Hairdressing III w/Lab	10
COS 2321	Related Science III	1
COS 2331	Manicuring III	1
COS 2341	Cosmetic Therapy III	1
COS 2351	Salesmanship, Shop Management and Shop Department III	1
	Total	15

Curriculum in Cosmetic Science

Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
COS 1101	Hygiene and Sanitation I	1
COS 1110	Hairdressing I w/Lab	10
COS 1121	Related Science I	1
COS 1131	Manicuring I	1
COS 1141	Cosmetic Therapy I	1
COS 1151	Salesmanship, Shop Management and Shop Department I	1
Total		15
2nd Semester		
COS 1201	Hygiene and Sanitation II	1
COS 1210	Hairdressing II w/Lab	10
COS 1221	Related Science II	1
COS 1231	Manicuring II*	1
COS 1241	Cosmetic Therapy II	1
COS 1251	Salesmanship, Shop Management and Shop Department II	1
Total		15
3rd Semester		
COS 2301	Hygiene and Sanitation III	1
COS 2310	Hairdressing III w/Lab	10
COS 2321	Related Science III	1
COS 2331	Manicuring III	1
COS 2341	Cosmetic Therapy III	1
COS 2351	Salesmanship, Shop Management and Shop Department III	1
ENGL 1013	Composition I	3
Total		18
4th Semester		
		Any Approved Social Science ¹
		3
COMS 1003	Introduction to Computer Based Systems	
	<i>or</i>	
COMS 2003	Microcomputer Applications	3
	<i>or</i>	
BUS 1303	Introduction to Computers	
COS 2405	Theory and Practical Application*	5

Curriculum in Cosmetic Science
Associate of Applied Science Degree in General Technology
Continued

ENGL 1023	Composition II	3
MATH 0903	Intermediate Algebra (or higher math)	3
	Total	17

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30
*Usually offered in Summer I term

ENOLOGY

Enology

Arkansas Tech University - Ozark Campus is seeking accreditation approval for a Technical Certificate in Enology. Students will not be enrolled in the Enology program until candidacy for accreditation status has been achieved through the Arkansas Department of Higher Education.

The Technical Certificate in Enology allows the learner to demonstrate wine making applications and theory in the wine production process. Students completing this technical certificate will be prepared for entry to mid-level positions in the wine making industry. The Altus vineyards and wineries, due to their proximity to the Ozark Campus, provide employment and internship opportunities, entrepreneurial support, as well as professional growth opportunities for those currently employed.

Curriculum in Enology Technical Certificate (Pending Approval)

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1003 or ENGL 0303 or ENGL 1013	Business English Foundational Composition Composition I	3
BUS 1023 or MATH 0903	Business Mathematics Intermediate Algebra or Higher Math	3
VIN 1463	Introduction to Enology	3
VIN 2103	Introduction to Wine Microorganisms	3
Total		12
2nd Semester		
CHEM 1114	Survey of Chemistry	4
VIN 2683	Wine and Must Analysis	3
VIN 1593	Grape Varieties of Mid America (Ark Wines)	3
VIN 1483	Winery Sanitation	3
VIN 1602	Winery Equipment Operations	2
Total		15
3rd Semester		
VIN 2463	Intermediate Enology	3
VIN 2592	Cellar Operation Technology	2
VIN 2663	Sensory Evaluation	3
VIN 2573	Fall Wine Production Internship	3
Total		11

INDUSTRIAL CONTROL SYSTEMS

Industrial Control Systems provides for a study of components, circuits, instruments and control techniques used with Industrial Automated Systems. The focus of study is on two main areas, one is control techniques for industrial components, such as electric motors, variable-speed drives, programmable logic controllers, servomechanisms and sensors. The second area of concentration is the computer system itself. The intent of this program is to prepare the electronic technician to deal with a broad concept of automation technology. The student will also have the ability to repair or upgrade the computer, install the necessary software to run the system, and integrate the system into computer networks.

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Instructor
Jody Chrisman
Industrial Control
Systems

Curriculum in Industrial Control Systems Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
ICS (CIS) 1103	Programming I	3
ICS 1104	Fundamentals of Electricity	4
ICS 1123	Semiconductors I	3
ICS (CIS) 1143	Introduction to Digital Logic *	3
ICS (CIS) 1153	Networking I	3
Total		16
2nd Semester		
ICS (CIS) 1253	Networking II	3
ICS (CIS) 1303	PC Maintenance	3
ICS 2203	Computer System Components	3
ICS 2213	Semiconductors II	3
Total		12
3rd Semester		
ICS 2115	Programmable Controllers	5
ICS 2116	Basics of Industrial Automation	6
ICS 2123	Industrial Fluid Power	3
Total		14

*Usually offered in Summer I term

Curriculum in Industrial Control Systems

Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
ICS (CIS) 1103	Programming I	3
ICS 1104	Fundamentals of Electricity	4
ICS 1123	Semiconductors I	3
ICS (CIS) 1143	Introduction to Digital Logic *	3
ICS (CIS) 1153	Networking I	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		19
2nd Semester		
ICS (CIS) 1253	Networking II	3
ICS (CIS) 1303	PC Maintenance	3
ICS 2203	Computer System Components	3
ICS 2213	Semiconductors II	3
ENGL 1013	Composition I	3
Total		15
3rd Semester		
ICS 2116	Basics of Industrial Automation	6
ICS 2115	Programmable Controllers	5
ICS 2123	Industrial Fluid Power	3
Total		14
4th Semester		
	Any Approved Social Science ¹	3
BUS 1303	Introduction to Computers <i>or</i>	
COMS 1003	Introduction to Computer Based Systems <i>or</i>	3
COMS 2003	Microcomputer Applications	
ICS 2903	Internship (or approved elective)	3
ENGL 1023	Composition II	3
Total		12

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30

* Usually offered in Summer I term

INDUSTRIAL SYSTEMS

The Technical Certificate in Industrial Electronic Technology is designed to enhance the technical skills and job-related knowledge of individuals who are currently employed in the industrial field as well as other persons seeking careers in Industrial Systems. Upon advisor approval, documented competencies acquired through training, certification, or licensure may be substituted as equivalencies for related technical courses. The majority of the technical courses are offered on a flexible schedule on campus, at off-site industrial locations and on the web. Courses taken for the certificate may be applied to the Associate of Applied Science degree in Industrial Systems.

Industrial Systems

Curriculum in Industrial Electronic Technology Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
TELT 1013	Fundamentals of Electricity	3
COMS 1003	Introduction to Computer Based Systems	3
TDFT 1013	Blueprint Reading for Machine Trades	3
TIPM 1103	Hydraulics and Pneumatics	3
TMAT 1003	Technical Mathematics	3
Total		15
2nd Semester		
TELT 1123	Industrial Electricity	3
TELT 1223	Solid State	3
ENGL 1013	Composition I	3
TELT 2013	Programmable Logic Controllers (PCL) Applications	3
TELT 1313	Digital Electronics	
Total		15

The Industrial Systems program leads to the Associate of Applied Science degree. This program is designed to: (1) prepare students for jobs in the use and maintenance of common electrical and electronic instruments along with industrial machines and equipment, and (2) enhance the technical skills and job-related knowledge of persons who are currently employed in the industrial field or anticipating a career in a related field.

Courses in general areas related to electronics and maintenance for industry are combined with general education courses to provide a firm foundation in basic electronics, math, and writing skills. Instruction also includes power distribution, programmable logic controllers, hydraulic power, welding, and basic machining. Emphasis is placed on troubleshooting skills and preventive maintenance techniques.

Upon advisor approval, documented competencies acquired through training, certification, or licensure may be substituted as equivalencies for related technical courses. The majority of the technical courses are offered on a flexible schedule on campus, at off-site industrial locations, or on the web.

To be admitted to the program, one must do the following: (1) apply for admission to Arkansas Tech University, (2) send to the university a certified copy of high school transcript, GED certificate, or college transcript(s), and (3) take the ACT or COMPASS. Those who make a score of less than 19 on the ACT in English, Mathematics, or

Reading will need to take the appropriate developmental course or courses. Those who make a score of less than 42 in Math, 75 in Writing and 82 in Reading on the COMPASS will also be required to take the appropriate developmental course or courses.

The program allows the student to earn up to six hours of articulated college credit for demonstrated competencies validated by an exam provided by the National Occupational Competency Testing Institute (NOCTI). In order to receive validated credit:

1. The student may take a teacher/expert worker exam in the occupational area for which the student is requesting credit and score no lower than one standard deviation below the national mean.
2. The student must successfully complete 15 semester hours of credit at Arkansas Tech University (excluding developmental hours) before the six hours of validated credit can be awarded.
3. The credit awarded for articulated competency will be designated on the transcript but will not count in the calculation of the student's grade point average.
4. Scores from the NOCTI exam completed more than five (5) years prior to application for admission to the program will not be accepted.

Curriculum in Industrial Systems Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
ENGL 1013	Composition I	3
COMS 1003	Introduction to Computer Based Systems	3
TELT1013	Fundamentals of Electricity	3
TDFT 1013	Blueprint Reading for Machine Trades	3
TIPM 1103	Hydraulics and Pneumatics	3
Total		15
2nd Semester		
ENGL 1023	Composition II	3
TELT 1123	Industrial Electricity	3
TELT 1223	Solid State	3
	Mathematics ¹	3
TMAC 1133	Welding Option	3
TIPM 1203	Maintenance of Plumbing Systems	3
Total		18
3rd Semester		
TMAT 1003	Technical Mathematics	3
TELT 1313	Digital Electronics	3
TELT 2013	Programmable Logic Controllers (PLC) Applications	3
	Technical Elective ²	3
	Social Sciences ¹	3
Total		15

Curriculum in Industrial Systems
Associate of Applied Science Degree
Continued

4th Semester		
TMAC 1013	Basic Machine Shop	3
MCEG 1002	Engineering Graphics	2
	Technical Elective ²	3
TELT 2503	Industrial Systems: Special Topics	3
TMAC 1023	Machine Set-Up and Operation	3
TELT 2223	Troubleshooting Electrical and Electronics Systems	3
Total		17

1 See appropriate alternatives or substitutions in "General Education Requirements".

2 Technical Electives: Six hours may be selected from the following courses: TELT 2991-5, TELT 2233, TACR 2223, TACR 2013, COMS 1203 (comparable computer courses may be substituted upon approval of advisor).

LAW ENFORCEMENT

Law Enforcement

The law enforcement program provides students the skill set and knowledge necessary to prepare to enter the law enforcement field as well as provide promotional opportunities for those currently employed in law enforcement. This program, designed with the assistance and support of surrounding law enforcement agencies, offers a competitive advantage to potential law enforcement employees as a precursor or supplement to police academy training. This program will enhance critical communications skills, computer skills, and knowledge of the legal system and current legislation.

Curriculum in Law Enforcement Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1003 or ENGL 0303 or ENGL 1013	Business English Fundational Composition Composition I	3
BUS 1023 or MATH 0803 or MATH 0903	Business Math Beginning Algebra Intermediate Algebra	3
BUS 1303	Introduction to Computers	3
LE 1003	Introduction to Law Enforcement	3
LE 1013	American Legal System	3
Total		15
2nd Semester		
EMTP 1001	CPR and First Aid	1
LE 1023	Judicial Process	3
LE 1043	Criminal, Civil, and Juvenile Law	3
LE 1053	Spanish for Law Enforcement	3
	Elective Coursework ¹	5
Total		15
3rd Semester		
LE 1033	Public Relations in Law Enforcement	3
	Elective Coursework ¹	3
Total		6

* Elective coursework recommended include: EMTP 1006 Basic EMT, courses in Computer Information Systems, courses in Business, or courses offered by Arkansas Tech University - Russellville Campus

Curriculum in Law Enforcement

Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1303	Introduction to Computers	3
ENGL 1013	Composition I	3
LE 1003	Introduction to Law Enforcement	3
LE 1013	American Legal System	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		15
2nd Semester		
EMTP 1003	Medical First Responder	3
ENGL 1023	Composition II	3
LE 1023	Judicial Process	3
LE 1043	Criminal, Civil, and Juvenile Law	3
LE 1053	Spanish for Law Enforcement	3
Total		15
3rd Semester		
ANTH 1003 or PSY 2003 or SOC 1003	Introduction to Anthropology General Psychology Introduction to Sociology	3
BUS 1043	Professional Communication	3
LE 1033	Public Relations in Law Enforcement*	3
LE 2003	Interview, Interrogation, and Testimony	3
	Elective Coursework**	3
Total		15
4th Semester		
BUS 2133	Multimedia	3
EMTP 1001	CPR and First Aid	3
LE 2013	Introduction to Computer Crime	3
LE 2903	Internship (or approved elective)	3
	Elective Coursework**	3
Total		15

* Offered in Summer I 2008

** Elective coursework recommended include: EMTP 1006 Basic EMT, courses in Computer Information Systems, courses in Business, or courses offered by Arkansas Tech University - Russellville Campus

PARAMEDIC/EMERGENCY MEDICAL SERVICES

Program Chair
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Instructor
Lance Greathouse
Paramedic/
Emergency
Medical Services

This program is designed to meet the educational and training needs of those individuals who strive to meet the goal of obtaining certification as a nationally registered Paramedic. Career opportunities exist with ambulance services, police and fire departments, medical centers, and industry. A Paramedic should possess dignity, empathy, and tolerance. Students will learn, under the direction of a physician to: assess the pre-hospital needs of the acutely ill or traumatized patient; provide triage and render basic and advanced life support; communicate effectively with patients, family, and other health care providers; maintain the level of care as patient is transported to a health care facility.

The student must complete all courses in the previous semester with at least 80% to be eligible for the next level of the Paramedic program. Arkansas EMT certification must be obtained by the student prior to enrollment in EMTP 1223 Clinical Practicum I, EMTP 1231 Lab I, and EMTP 1304 Medical Emergencies I.

Curriculum in Basic Emergency Medical Services Certificate of Proficiency

Course Number	Course Name	Semester Hours
EMTP 1007	Basic Emergency Medical Services Training	7
Total		7

Note: In order for the Certificate of Proficiency to be awarded, a grade of "C" must be earned in EMTP 1007 and/or EMTP 1107.

Curriculum in Intermediate Emergency Medical Services Certificate of Proficiency

Course Number	Course Name	Semester Hours
EMTP 1107	Intermediate Emergency Medical Services Training	7
Total		7

Note: In order for the Certificate of Proficiency to be awarded, a grade of "C" must be earned in EMTP 1007 and/or EMTP 1107.

Curriculum in Paramedic/Emergency Medical Services Technical Certificate

Course Number	Course Name	Semester Hours
Prerequisites		
EMTP 1007	Basic Emergency Medical Services Training or Intermediate Emergency Medical Services Training	7
EMTP 1103	Life Span Development	3
EMTP 1113	Pharmacology I	3
EMTP 1123	Pre-hospital Environment	3
EMTP 1133	Anatomy and Physiology	3
Total		19
Summer Term		
EMTP 1201	Patient Assessment/Pathophysiology of Shock	1
EMTP 1221	Pharmacology II	1
EMTP 1223	Clinical Practicum I	3
EMTP 1231	Lab I	1
Total		6
Fall		
EMTP 1302	Rhythm Recognition	2
EMTP 1304	Medical Emergencies I	4
EMTP 1305	Clinical Practicum II	5
EMTP 1331	Lab II	1
Total		12
Spring		
EMTP 1401	Lab III	1
EMTP 1412	Medical Emergencies II	2
EMTP 1413	Clinical Practicum III	3
EMTP 1424	Paramedic Internship I	4
EMTP 1431	Advanced Cardiac Life Support	1
EMTP 1451	Pre-hospital Trauma Life Support	1
EMTP 1461	Pediatric Advanced Life Support	1
Total		13
Summer Term		
EMTP 1504	Paramedic Internship II	4
EMTP 1512	Assessment Based Management	2
Total		6

Curriculum in Paramedic/Emergency Medical Services Associate of Applied Science Degree in Allied Health

Course Number	Course Name	Semester Hours
1st Semester		
EMTP 1007	Basic Emergency Medical Services Training or	7
EMTP 1107	Intermediate Emergency Medical Services Training	
EMTP 1103	Life Span Development	3
EMTP 1113	Pharmacology I	3
EMTP 1123	Pre-hospital Environment	3
EMTP 1133	Anatomy and Physiology	3
Total		19
2nd Semester		
COMS 1003	Introduction to Computer Based Systems or	
COMS 2003	Microcomputer Applications or	3
BUS 1303	Introduction to Computers	
EMTP 1201	Patient Assessment/Pathophysiology of Shock	1
EMTP 1223	Clinical Practicum I	3
EMTP 1231	Lab I	1
EMTP 1302	Rhythm Recognition	2
EMTP 1304	Medical Emergencies I	4
ENGL 1013	Composition I	3
EMTP 1221	Pharmacology II	1
Total		18
3rd Semester		
EMTP 1305	Clinical Practicum II	5
EMTP 1331	Lab II	1
EMTP 1412	Medical Emergencies II	2
EMTP 1424	Paramedic Internship I	4
ENGL 1023	Composition II	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		18

**Curriculum in
Paramedic/Emergency Medical Services
Associate of Applied Science Degree in Allied Health
*Continued***

4th Semester		
	Any Approved Social Science ¹	3
EMTP 1401	Lab III	1
EMTP 1413	Clinical Practicum III	3
EMTP 1431	Advanced Cardiac Life Support	1
EMTP 1451	Pre-hospital Trauma Life Support	1
EMTP 1461	Pediatric Advanced Life Support	1
EMTP 1504	Paramedic Internship II	4
EMTP 1512	Assessment Based Management	2
	Total	16
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30		

PHYSICAL THERAPIST ASSISTANT

Program Chair
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Instructor
Leann Goines
Physical Therapist
Assistant

Arkansas Tech University - Ozark Campus is seeking accreditation approval for an Associate of Applied Science degree in Physical Therapist Assistant. Students will not be enrolled in the Physical Therapist Assistant program until candidacy for accreditation status has been achieved through the Commission on Accreditation in Physical Therapy Education.

The Physical Therapist Assistant program integrates classroom theory with clinical lab practice. It is designed to prepare successful graduates for entry-level employment in the field as Physical Therapist Assistants. The Physical Therapist Assistant is an educated health care provider who works under the direction and supervision of a licensed Physical Therapist and assists in the provision of physical therapy. The Physical Therapist Assistant provides specially prescribed treatments and exercises through a plan of care developed by the physical therapist that are aimed at improving mobility; relieving pain; or preventing and /or limiting physical disability.

Prior to admission, students must complete a platform of 28 hours which includes general education and medical courses. Students must submit an application to the program and meet entrance requirements for acceptance into the Physical Therapist Assistant program.

Curriculum in Physical Therapist Assistant Associate of Applied Science Degree in Physical Therapy Assistant (Pending Approval)

Course Number	Course Name	Semester Hours
Fall		
Foundational courses to be completed before applying to PTA program		
BUS 2213	Introduction to Human Anatomy	3
BUS 2233	Medical Terminology	3
BUS 1303 or COMS 1003 or COMS 2003	Introduction to Computers Introduction to Computer Based Systems Microcomputer Applications	3
ENGL 1013	Composition I	3
MATH 1113	College Algebra	3
Total		15
Spring		
BUS 2283	Human Anatomy and Physiology	3
ENGL 1023	Composition II	3
PHSC 1013	Introduction to Physical Science	3
PHSC 1021	Introduction to Physical Science Lab	1
PSY 2003	General Psychology	3
Total		13
Summer I		
APPLICATION TO PTA PROGRAM		
PTA 1111	Principles of Physical Therapy	1

**Curriculum in
Physical Therapist Assistant
Associate of Applied Science Degree
in Physical Therapist Assistant (Pending Approval)
*Continued***

PTA 1122	Clinical Kinesiology	2
PTA 1121	Clinical Kinesiology Lab	1
PTA 1122	Pathological Conditions	2
Total		6
Summer II		
PTA 1221	Principles of Patient Care Lab	1
PTA 1222	Principles of Patient Care	2
PTA 1131	Therapeutic Procedures I Lab	1
PTA 1132	Therapeutic Procedures I	2
Total		6
Fall		
PTA 2112	Therapeutic Procedures II Lab	2
PTA 2113	Therapeutic Procedures II	3
PTA 2121	Neurological Development and Motor Control	1
PTA 2142	Therapeutic Ex. and Cardiopulmonary Rehab Lab	2
PTA 2143	Therapeutic Ex. and Cardiopulmonary Rehab	3
PTA 2152	Administrative Procedures	2
PTA 2164	Clinical Experience I	4
Total		17
Spring		
PTA 2211	Musculoskeletal Rehab Lab	1
PTA 2212	Musculoskeletal Rehab	2
PTA 2221	Neurological Rehab Lab	1
PTA 2222	Neurological Rehab	2
PTA 2234	Clinical Experience II	4
PTA 2235	Clinical Experience III	5
Total		15

PRACTICAL NURSING

Program Chair
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Instructors
Theresa Fontaine
Natalie Helmert
Ester Leonard

Clinical Instructors
Debra Hines
Bobbie Lewis
Practical Nursing

Note: The Practical Nursing Curriculum is currently under review.

The Practical Nursing program of ATU-Ozark Campus is an entry level 15-month, 3 semester nursing course. Upon completion of the course the student will receive a certificate in Practical Nursing. The course integrates theory with clinical practice. Theoretical content is based on the concept of holism in which the physical, emotional, social, and spiritual well-being is considered. Clinical experiences will be obtained in the following health care service areas: adult health, maternal-child, mental health, geriatrics, pediatrics.

Upon completion of the program, the student will be eligible to make application for the NCLEX-PN exam for licensure. State and FBI background checks are required of each student by the Arkansas State Board of Nursing when applying for licensure exam. An applicant may be denied permission to write based on background check results.

Students wishing to enroll in the practical nursing program should submit an application to the University with an official high school transcript, or GED transcript, and all college transcripts by June 1st for the August Class and October 1st for the January class.

To be eligible to apply to the Practical Nursing program, students must supply the Office of Student Services a COMPASS, ACT, or SAT score report verifying that remediation in English, mathematics, and reading is not required; or complete the appropriate remedial coursework with a grade of "C" or better to satisfy remediation requirements:

Submit an application to the Nursing Department, and schedule an appointment with a Nursing Department faculty member. Applications not submitted by the deadline or incomplete applications will not be considered for that semester's class.

Schedule the TEAS (Test of Essential Academic Skills) exam with the Office of Student Services.

Attend the scheduled Nursing Department Pre-orientation meeting.

Student Nursing Applications may be withdrawn if all of the above criteria are not met. Students not meeting required criteria may be required to reapply to the Practical Nursing program.

Meeting the minimum requirements for admission to the university does not guarantee admission to the practical nursing program.

Minimum Requirements for Graduation with a Technical Certificate

Course	Theory Clock Hours
Vocational, Legal and Ethical Concepts	15 Hours
Body Structure and Function	90 Hours
Nursing of the Geriatric Patient	15 Hours
Nutrition in Health and Illness.....	15 Hours
Basic Nursing Principles and Skills	150 Hours
Nursing of Adult Patients with Medical and Surgical Conditions	150 Hours
Nursing of Children.....	60 Hours
Nursing of Mothers and Infants	90 Hours
Mental Health and Care of the Mentally Ill.....	60 Hours
Pharmacology.....	90 Hours
Theory/Clinical Hours	735/810 Hours

1590 Total Program Hours

Curriculum in Certified Nursing Assistant Certificate of Proficiency

Course Number	Course Name	Semester Hours
CNA 1114	Basic Nursing Principals and Skills I	4
BUS 2233	Medical Terminology	3
Total		7

Curriculum in Practical Nursing Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
LPN 1101	Vocational, Legal and Ethical Concepts	1
LPN 1103	Body Structure and Function	3
LPN 1111	Nursing of the Geriatric Patient	1
LPN 1112	Pharmacology I	2
LPN 1114	Basic Nursing Principles and Skills I	4
LPN 1115	Clinical I	5
LPN 1121	Nutrition in Health and Illness	1
Total		17
2nd Semester		
LPN 1202	Nursing of Adults with Medical/Surgical Conditions I	2
LPN 1203	Nursing of Mothers and Infants	3
LPN 1210	Clinical II	10
LPN 1211	Basic Nursing Principles and Skills II	1
LPN 1221	Pharmacology II	1
Total		17
3rd Semester		
LPN 1302	Nursing of Children	2
LPN 1303	Nursing of Adults with Medical/Surgical Conditions II	3
LPN 1312	Clinical III	12
LPN 1322	Mental Health	2
Total		19

Curriculum in Allied Health

Associate of Applied Science Degree in Allied Health

The A.A.S. in Allied Health with a Practical Nursing option is intended to be a "feeder program" to the BSN program at the Russellville campus. This degree prepares the graduate to sit for licensure in Practical Nursing and does not result in an RN credential.

Curriculum in Allied Health

Associate of Applied Science Degree in Allied Health

Continued

Course Number	Course Name	Semester Hours
1st Semester Summer Terms (I&II)		
COMS 1003	Introduction to Computer Based Systems <i>or</i>	3
COMS 2003	Microcomputer Applications <i>or</i>	
BUS 1303	Introduction to Computers	
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra (or higher math)	3
Total		9
2nd Semester Fall		
LPN 1101	Vocational, Legal and Ethical Concepts	1
LPN 1102	Pharmacology I	2
LPN 1103	Body Structure and Function	3
LPN 1111	Nursing of the Geriatric Patient	1
LPN 1114	Basic Nursing Principles and Skills I	4
LPN 1115	Clinical I	5
LPN 1121	Nutrition in Health and Illness	1
Total		17
2nd Semester Spring		
LPN 1202	Nursing of Adults with Medical/Surgical Conditions I	2
LPN 1203	Nursing of Mothers and Infants	3
LPN 1210	Clinical II	10
LPN 1211	Basic Nursing Principles and Skills II	1
LPN 1221	Pharmacology II	1
Total		18
3rd Semester Summer Terms (I&II)		
ENGL 1023	Composition II	3
PSY 2003	General Psychology	3
Total		6
4th Semester Fall		
LPN 1302	Nursing of Children	2
LPN 1303	Nursing of Adults with Medical/Surgical Conditions II	3
LPN 1312	Clinical III	12
LPN 1322	Mental Health	2
Total		17

VITICULTURE

Viticulture

Arkansas Tech University - Ozark Campus is seeking accreditation approval for a Technical Certificate in Viticulture. Students will not be enrolled in the Viticulture program until candidacy for accreditation status has been achieved through the Arkansas Department of Higher Education.

The Technical Certificate in Viticulture allows the learner to demonstrate the application of specific agricultural knowledge, techniques, and theories to improve vineyard health. Students completing this technical certificate will be prepared for entry to mid-level positions in the grape growing industry. The Altus vineyards and wineries, due to their proximity to the Ozark Campus, provide employment and internship opportunities. Students will also have access to entrepreneurial support along with professional growth opportunities for those currently employed.

Curriculum in Viticulture Technical Certificate (Pending Approval)

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1303	Intro to Computers	3
BUS 1003 or ENGL 0303 or ENGL 1013	Business English Foundational Composition Composition I	3
BUS 1023 or MATH 0903	Business Mathematics Intermediate Algebra or Higher Math	3
BIOL 2134	Principles of Botany	4
VIN 1113	Intro to Viticulture and Vineyard Establishment	3
Total		16
2nd Semester		
CHEM 1114	Survey of Chemistry	4
VIN 1132	Winter Viticulture Technology	2
VIN 2112	Integrated Pest Management	2
VIN 2132	Midwest Vineyard Management	2
VIN 1142	Spring Viticulture Technology	2
Total		14
3rd Semester		
VIN 2363	Grape Varieties of Mid America (Ark Grapes)	3
VIN 2933	Soils for Viticulture	3
VIN 1152	Summer/Fall Viticulture Technology	2
Total		8

WELDING TECHNOLOGY

Program Chair
Corey Danekas
Shop Complex
(479) 508-3312
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Welding
Technology

This program is designed to develop the skills necessary for entry into industrial and commercial welding employment. Instruction is provided in SMAW, GMAW, and GTAW welding, thermal cutting, blueprint reading and layout techniques. Students are required to take a two-part examination composed by the American Welding Society to apply for AWS Entry Level Welding Certification.

Curriculum in Welding Technology Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
BUS 1023	Business Mathematics or	3
MATH 0803	Beginning Algebra (or higher math)	
WLD 1103	Introduction to Thermal Cutting	3
WLD 1202	Blueprint Reading	2
WLD 1212	Industrial Safety in Welding	2
WLD 1224	Introduction to Arc Welding	4
WLD 1302	Metallurgy	2
Total		16
Spring		
BUS 1003	Business English or	3
ENGL 0303	Foundational Composition or	
ENGL 1013	Composition I	
WLD 1405	Position Welding	5
WLD 1503	Gas Metal Arc (MIG) Welding	3
WLD 1603	Gas Tungsten Arc (TIG) Welding	3
Total		14
1st Summer		
WLD 1702	Weldment Testing	2
WLD 1804	Certification Welding I	4
Total		6

Curriculum in Welding Technology

Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
1st Semester		
MATH 0903	Intermediate Algebra (or higher math)	3
WLD 1103	Introduction to Thermal Cutting	3
WLD 1202	Blueprint Reading	2
WLD 1212	Industrial Safety in Welding	2
WLD 1224	Introduction to Arc Welding	4
WLD 1302	Metallurgy	2
	Total	16
2nd Semester		
ENGL 1013	Composition I	3
WLD 1405	Position Welding	5
WLD 1503	Gas Metal Arc (MIG) Welding	3
WLD 1603	Gas Tungsten Arc (TIG) Welding	3
	Total	14
3rd Semester		
ACR 2124	Boiler Operations	5
ENGL 1023	Composition II	3
WLD 1403	Welding for Trades and Industry	2
WLD 1702	Weldment Testing I*	2
WLD 1804	Certification Welding I*	4
	Total	16
4th Semester		
	Any Approved Social Science ¹	3
ACR 2124	Sheet Metal	4
COMS 1003	Introduction to Computer Based Systems	
	<i>or</i>	
COMS 2003	Microcomputer Applications	3
	<i>or</i>	
BUS 1303	Introduction to Computers	
WLD 2904	Internship (or approved elective)	4
	Total	14

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 30

*Usually offered in Summer I term

COURSE DESCRIPTIONS

In this section of the catalog, all courses taught at Arkansas Tech University - Ozark Campus are listed alphabetically by subject area. For departmental write-ups and detailed curricula of programs of study, see the appropriate division of the preceding section.

Air Conditioning/ Refrigeration

ACR 1203 Fundamentals of Electricity

The characteristics of alternating current, waves, phase relations, transfer action, electrical circuits, and its use with controls, motors, relays, resistors, including legends and symbols are taught. In addition, the student will study the wide variety of motors, single and three phase, used in the air conditioning and refrigeration field.

ACR 1205 Tubing and Piping

This course covers the process of identifying tubing and pipe with practical applications in sizing and fitting to different configurations using mechanical fittings and soldering. The history and development of air conditioning is also covered. Silver branding and aluminum soldering is also taught. Practical application is provided in the laboratory. Safety is emphasized.

ACR 1222 Industrial Controls

Designed to teach the student how to set up a control system for different types of control requirements. Different types of control methods are studied, such as PLC, digital and microprocessor systems.

ACR 1301 Industrial Safety in Air Conditioning and Refrigeration

The hazards associated with the different refrigerants, electricity, the oxy-acetylene torch, radon, carbon monoxide, extreme heat and extreme cold will be addressed

ACR 1302 Basic Compression and Refrigeration

A comprehensive study of mechanical refrigeration systems emphasizing proper service techniques through analysis of the problem. Testing

procedures, parts removal and installation are covered in depth. Also included is a study of the computation of temperature - pressure relationship and related problems.

ACR 1503 Electronic Components

The student will study the wide variety of motors used in the air conditioning and refrigeration field. In addition, various system controls, relays, resistors, contactors, and timers are concepts that will be taught as they relate to motors and their operation

ACR 1602 Schematics

The student will learn to read, draw, and interpret writing diagrams and to place the circuitry in operative arrangements with electrical and electronic symbols. System diagrams will be developed by the student for a wide variety of A/C equipment.

ACR 2102 Residential Systems

Pre-requisite: ACR 1203 and ACR 1302. This course is a study of the major components and control devices for gas and oil furnaces, hydronic systems, heat pumps, and cooling systems.

ACR 2104 Heat Gain and Loss

Pre-requisite: ACR 1302. A study of air properties and the instrumentation to meet the environmental needs of structures, residential and commercial, and the factors involved in the calculation of heating and cooling loads. Also included, is a study of the distribution mediums such as duct design and sizing.

ACR 2112 Air Conditioning Service

This course includes a comprehensive study of air conditioning systems which emphasizes proper service techniques through analysis of the problem. Testing procedures, parts removal, and installation are covered in depth. A study of the computation of temperature pressure relation and related problems

is included. Environmental impacts and safety are emphasized, including Environmental Protection Agency certification.

ACR 2114 Industrial Refrigeration

Covers all aspects of using ammonia as a refrigerant. Describes both single-stage and two-stage ammonia systems. Explains the importance of accumulators and intercoolers in ammonia systems. Concludes with coverage of liquid recirculation system operation.

ACR 2124 Sheet Metal

Provides an introduction to safety, tools, machinery, materials, and fasteners used in the sheet metal trade.

ACR 2134 Boiler Operations

Will cover the basic theory, operation and construction of a high pressure boiler.

ACR 2904 Internship

Provides students with the experience of a job in a business. Students will participate in internship during the final phase of program completion. Contracts will be signed between the school, students, and training site stating the rules and objectives of the internship.

ACR 2991-6 Special Topics for ACR

This course is designed to introduce students to specific areas in Air Conditioning and Refrigeration. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

American Studies

AMST 2003 American Studies

An exploration of American culture through study of significant ideas, social issues and literary texts. AMST

2003 may be used to fulfill 3 hours of the Social Sciences general education requirements.

Anthropology

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. May not be taken for credit after completion of ANTH 3213.

Art

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.

Automotive Service Technology

AST 1003 Automotive Electronics

This course covers the fundamentals of the basic automotive system testing and repair, including repair and troubleshooting of the starter, charging, and air bag system. Emphasis will be placed on using a wiring diagram to diagnosis and troubleshoot electrical circuits and how to identify open or shorted circuits with common testing equipment such as test lights, Ohm meters, and battery load testers. This course should be taken before AST 2103 Advanced Automotive Electronics.

AST 1103 Automotive Brake Systems

Concentrates on the theory and operation of disc and drum brake systems. Basic hydraulic principles as well as the operation and components of the brake foundation systems are taught. The course includes an in-depth study of various power brake systems, including vacuum assisted systems, hydraulically boosted systems, and several types of anti-lock braking systems.

AST 1004 Gasoline Engine Theory

Provides the student with an introduction to automotive engines. Students learn the proper use and care of hand tools, precision tools, special tools, and equipment. Theory of operation with attention to components is included. Cooling systems, lubrication systems, intake systems, exhaust systems, vehicle maintenance, as well as PC based automotive schematics and flow charts are taught. Safety is emphasized.

AST 1005 Engine Performance

Pre-requisite: AST 1004. Provides students with an understanding of fuel, ignition, drivability, and emissions systems. Theory of operation as well as relevant electronic components and computing systems diagnosis is included.

AST 1202 Introduction to Automotive Drive Trains

Designed to cover the entire drivetrain on a late model vehicle with a standard transmission. Beginning with the flywheel, to the transmission, through the differential assembly and ending at the wheel and hub. Includes the principles of gear reduction as it applies to the theory, operation, and repair of manual transmission, differential, and transaxles. Several types of four-wheel drive systems will be taught.

AST 1203 Automotive Climate Control

Begins with a study of refrigeration, the refrigeration cycle, and basic components of a typical automotive refrigeration system. The function and construction of compressors, lines, expansion valves, expansion tubes, condensers, evaporators, blower motors, and air distribution systems is covered. Automatic temperature control systems including the latest computer monitored systems, and heating and ventilation will also be covered. Service and maintenance procedures as well as shop safety are emphasized.

AST 1213 Automotive Chassis and Steering

Designed to introduce the student to

the theory and operation of modern suspension and steering systems. The study of the suspension system includes wheels, tires, hubs, bearings, seals, springs, and vehicle forms. Various designs and construction of each of these components will be covered. Steering and suspension systems start with the basic theory of steering geometry and the related factors. Wheel alignment, construction and operation of the various manual, and power steering components is included.

AST 1223 Advanced Automotive Drive Trains

Pre-requisite: AST 1202. A continuation of AST 1202. A study of theory and operation of the entire drivetrain of automotive automatic transmissions and transaxles.

AST 2103 Advanced Automotive Electronics

Prerequisites: AST 1003 and AST 1004. This course applies the fundamentals of electronics, including Ohm's Law, basic electrical circuits, wiring diagrams, and common electrical symbols to the automobile. Diagnosis and troubleshooting of electrical circuits is emphasized, including familiarizations with most common types of testing equipment. It includes an in-depth study of the theory and operation of automobile electronic control systems.

AST 2113 Advanced Engine Performance

Prerequisites: AST 1005. This course covers advanced theory and testing of engine related fuel and computerized systems. The student should have a basic understanding of basic computer, fuel, and ignition systems. Students will use more advanced equipment for testing.

AST 2991-6 Special Topics for AST

This course is designed to introduce students to specific areas in Automotive Service Technology. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than

once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

Biology

BIOL (PHSC) 1004 Principles of Environmental Science

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. \$10 laboratory fee.

BIOL 1014 Introduction to Biological Science

Each semester. 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. 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.

Business Technology

BUS 0903 Keyboarding w/Lab

Acquaints the student with the alphabetic keyboard through usage of the computer. The course emphasizes basic skill development through drills for speed and control, methods used in centering and tabulations, letter style, business reports, and production measurement. (May be required if Student's skill level is not adequate for other coursework.)

BUS 1003 Business English

Designed to develop the student's vocabulary skills, dictionary usage, proofreading, listening, and English

grammar as needed for current business usage enabling the student to write and communicate effectively.

BUS 1013 Word Processing I

Provides instruction in basic word processing machine operations and word processing skills. The student will learn to produce documents through keyboarding, editing, storing, retrieving, and printing. The student will also learn basic maintenance of word processing software and equipment in the modern business office.

BUS 1023 Business Mathematics

A comprehensive study of mathematics as applied to business. Banking, payroll, business statistics, and other selected topics will be covered.

BUS 1033 Administrative Support Procedures

Emphasizes the practices and procedures acceptable in a business office. Topics include interpersonal relations, telephone usage, mail handling, records management, job application procedures, travel arrangements, reprographics, and financial statements.

BUS 1043 Professional Communication

Designed to review and/or learn the basics in punctuation and to further develop spelling skills. The course covers the principles of effective communication in the modern business office. Topics include writing skills, reading skills, and psychological principles involved in effective business letter writing as well as oral communication.

BUS 1053 Spreadsheets

Students will develop comprehensive skills using Microsoft Excel. These skills will include toolbar usage, cell and worksheet formatting, cell functions, worksheet organization and printing. The user will become adept at advanced features such as charts, linking worksheets and workbooks, customizing templates and toolbars, and other features.

BUS 1063 Legal Environment for Business Technology

Provides an introduction to characteristics of the American system of free enterprise and the obligations and rights of an individual. Topics include torts, rights of private property, contracts, bailment, insurance and risk, labor, and dignity and worth of an individual.

BUS 1073 Accounting

The study of fundamental accounting concepts and procedures. The course emphasizes the accounting cycle, and includes journalizing and posting transactions, preparing trial balances, worksheets, and financial statements. Emphasis is also given to cash, banking, payroll procedures, sales, purchases, and accounts receivable/payable.

BUS 1083 Introduction to Economics

An overview of macroeconomics with continued emphasis on microeconomic theory as it applies to business technology students

BUS 1303 Introduction to Computers

Designed to introduce students to computer hardware, software, procedures, systems, and human resources as applied to business. It focuses on computer literacy, the concepts of the data processing cycle, and an introduction to commercially available software.

BUS 2113 Word Processing II

Pre-requisite: BUS 1013. Provides students an opportunity for more in-depth practical application of word processing skills. Emphasis is given to design, format, merging, and advanced editing techniques.

BUS 2123 Computer Applications for Accounting

Prerequisite: BUS 1073. Designed to acquaint students with major areas of computerized accounting. Application areas covered will include general ledger, accounts payable, accounts receivable, and payroll.

BUS 2133 Multimedia

Focuses on a variety of software as well as technology-based equipment used in advanced office settings.

Projects will emphasize the use of the following: digital camera, video equipment, desktop publishing, graphics production, electronic slide show presentations, E-mail, and Internet.

BUS 2143 Introduction to Management

Provides insight into the characteristics, organization, and operation of a business. Studies include international business, factors of business operations, and business decision-making. Management skills, the legal environment, and types of business ownership are included in this course.

BUS 2153 Database Management

This course includes elementary database design, record layouts, simple selection operations, and basic report generation.

BUS 2163 Desktop Publishing

Prerequisites: BUS 1303 or BUS 1013. Utilizes a desktop publishing software program in order to provide practical experience in the development of marketing and informative correspondence. Activities include creating newsletters, menus, posters, fact sheets, advertisements, business reports, brochures, comprehensive indexes, and planning a web page.

BUS 2213 Introduction to Human Anatomy

This course is designed for the student desiring knowledge relative to the human structure and basic functioning of the human body. This course meets the basic requirement of in-breadth, but not in-depth study of the human body.

BUS 2223 Medical Transcription I

Introduces the student to the skills needed to properly format medical documentation such as history and physical reports, operative reports, discharge summaries, etc. Provides training in the transcribing of medical documents from MP3 audio files using the microcomputer. Ability to keyboard is required.

BUS 2233 Medical Terminology

Study of terms that relate to body systems, anatomical structures, medical processes and procedures,

drugs and a variety of diseases that afflict humans. This course includes medical word construction, definitions, spellings, and the use of terms in the medical field.

BUS 2243 Disease Processes

Pre-requisites: BUS 2213 and BUS 2233. Coverage of the nature of diseases and human conditions. Includes symptoms, signs, etiological factors, diagnostic studies, and treatments.

BUS 2253 Medical Coding I

Pre-requisites: BUS 2213 and BUS 2233. Introduces the student to the concepts of coding medical conditions and procedures. The student will gain entry-level proficiency in the techniques of coding using the ICD-9-CM (International Classification of Diseases, 9th revision, Clinical Modification) system.

BUS 2263 Medical Coding II

Pre-requisite: BUS 2253. Introduces the student to the concepts of coding medical procedures in the physician office. The student will become familiar with entry-level proficiency in the techniques of coding using the Current Procedural Terminology (CPT) system.

BUS 2273 Medical Transcription II

Pre-requisite: BUS 2223. This course will build on the foundation laid in the beginning medical transcription. The student will transcribe dictation as in the work environment covering 18 medical specialty areas. The dictation will be more difficult than in beginning transcription and designed to refine transcription skills to a competitive level.

BUS 2283 Human Anatomy and Physiology

Prerequisite: BUS 2213. This course is designed to present an in depth study of the anatomical structure of the human body. Students in this course will be presented concepts which will continue to develop a basic understanding of the internal relationships within the human body.

BUS 2303 Money and Banking

Addresses the various financial markets as well as economic factors and their impact on the banking industry.

BUS 2313 Deposit Operations

Covers customer services, teller functions, new accounts, accounts payable, trusts, estates, branch security, general ledger banking, e-banking and online banking, call support, confidentiality, and research in banking.

BUS 2333 Loan Operations

All aspects of consumer and commercial lending as well as financial and insurance statements. Other topics that will be addressed include managing loan files, assessing risk in lending, understanding issues of regulation and compliance, bankruptcy, credit reports, and appraisals.

BUS 2993 Special Topics for Business Technology

This course covers new developments in business environments, such as technologies, laws, and organizational structures. The instructor selects a pertinent and current topic as the focus of the course. Topics will change with semesters. May be repeated for credit for total of 6 hours.

Chemistry

CHEM 1114 A Survey of Chemistry

Each semester. 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. Lecture three hours, laboratory three hours. May not be taken for credit after completion of CHEM 2124 or 2134. \$10 laboratory fee.

CHEM 2124 General Chemistry I

Each semester. Prerequisites: scores of 21 or higher on the math and the English portions of the ACTE exam, a "C" or better in CHEM 1114, or approval by the department chair of Physical Sciences. 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.

Certified Nursing Assistant

CNA 1114 Basic Nursing Principles and Skills I

This course covers the fundamental principles, skills, and attitudes needed to give nursing care and prevent the spread of disease. Procedures used in the care of the sick and the ability to adapt them to various situations are discussed. Students will learn to document their observations and interventions.

Collision Repair Technology

CRT 1103 Automotive Welding

Students will receive instruction on how to properly weld and cut on automobiles with the use of mig welders and plasma cutters.

CRT 1114 Metal Repair I

The straightening, alignment, and fitting of major panels are taught. Procedures necessary to weld, heat, cut, and shape are taught. Emphasis in this course is on theory and practical application.

CRT 1124 Painting I

This course includes skills and technical knowledge in the preparation of metal for paint; chemical stripping of old finishes; use and maintenance of spray painting equipment; mixing and spraying of all types of automotive finishes; and identification of common materials used.

CRT 1134 Color Matching I

A continuation of painting with emphasis on spraying techniques and tinting of paints to achieve color match.

CRT 1214 Metal Repair II

Prerequisite: CRT 1114. A continuation of CRT 1114 with advanced straightening techniques with the application of body fillers being taught.

CRT 1224 Painting II

Prerequisite: CRT 1124. A continuation of CRT 1124. This course includes skills and technical knowledge in the preparation and application of automotive finishes.

CRT 1234 Color Matching II

Prerequisite: CRT 1134. A continuation of CRT 1134. Develop advanced color match techniques.

CRT 1312 Air Brushing

The Student will learn spraying techniques using multiple colors, metal flake paints, and multilayer masking using special spraying techniques and air brushes.

CRT 1322 Detailing

Students will receive instruction on how to properly clean and buff all visible exterior and interior surfaces of a vehicle.

CRT 1332 Cost Analysis of Collision Repair

Students will receive instruction in the preparation of an estimate, calculating the cost of parts, materials, and labor required to repair a collision damaged vehicle.

CRT 2991-6 Special Topics for CRT

This course is designed to introduce students to specific areas in Collision Repair Technology. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

Computer and Information Science

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 also gain experience in the use of several popular software applications including Windows, e-mail, Internet, word processing, spreadsheets, databases, presentation packages, and integration of these applications. May not be taken for credit after completion of COMS 2003 or BUAD 2003. Advanced placement and credit by examination are available to students who have previously studied Computer Science. Students may sit for the exam a maximum of three times.

COMS 2003 Microcomputer Applications

Prerequisite: COMS 1003 or pass entrance exam. 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 relation to their major.

Computer Information Systems

CIS (ICS) 1103 Programming I

This course is designed to give the student an understanding of established and new methodologies using Microsoft Visual Basic programming. Emphasis is placed on developing logical thinking skills.

CIS 1113 Fundamental Computer Operation

Students will learn to manage current Microsoft Operating Systems. Topics included are troubleshooting and applying basic commands that are valuable or necessary in a working environment. Students will also explore basic Network and Web Design concepts. No prior computer experience is assumed.

CIS (ICS) 1143 Introduction to Digital Logic

This is an Introductory Course in the study of Digital Logic Systems, basic digital logic gates, truth tables, numbering systems, and different types of TTL integrated circuits are studied.

CIS (ICS) 1153 Networking I

Designed as a foundation course that provides the theory and basic understanding of the hardware and software that comes together to build local area and wide area networks.

CIS 1203 Programming II

Prerequisite: CIS(ICS) 1103. A continuation of Programming I. This course focuses on the programming power of Microsoft Visual Basic by teaching students to plan and develop their own interactive Windows application. Students will learn how to create and manage variables, constants, strings, sequential access files and arrays.

CIS 1213 Operating Systems

The main goal of this course is to provide students with a comprehensive understanding of the multiple operating systems commonly found in the Information Technology field today. Students will learn the theory behind operating systems and some basic to advanced components of each operating system. Students will learn basic functions and design of file systems found in Windows, UNIX, and Macintosh operating systems.

CIS (ICS) 1253 Networking II

Pre-requisite: CIS 1153. Builds upon the skills and concepts learned in Networking I. Emphasis will be on the hands-on aspects of personal computer networks using Microsoft and Linux based networking products, including installations and/or expanding a networking system and troubleshooting problems.

CIS 1233 Systems Analysis and Design

This course is an introduction to basic concepts regarding the system life cycle, analytical tools and methods, file and record layouts, and elements of the design phase.

CIS 1243 HTML Programming

This class provides training in coding simple to complex web pages using HTML code. Common programming practices as well as distinct HTML skills are taught. Repetition, variable usage, and decision structures are covered, as well as some basic javascript routines.

CIS (ICS) 1303 PC Maintenance

This course is designed to prepare individuals to troubleshoot, build, and repair personal computers, workstations, printers, and other computer peripherals. The student will also learn to install, debug, diagnose, and repair software problems associated with PCs.

CIS 2133 Web Page Design

Prerequisites: CIS 1243 HTML Programming. This course introduces a student to the design and development of web pages. HTML, images, CSS stylesheets, multimedia, and other topics will be covered so that students learn how to publish and maintain a web site to a server.

CIS 2143 Help Desk Support

This course is designed to teach individuals to troubleshoot the Microsoft Office Application Suite. It focuses on customer service and communication with the end user.

CIS 2153 Programming in C++

Prerequisites: CIS 1103 The course begins with core computer science concepts and will introduce the student to structured programming using C++. Topics will include files, control structures, user defined functions, and arrays. Principals taught in class are practiced in class.

CIS 2163 Computer Programming

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 warrant the addition of a new course to the curriculum. This course may be repeated for credit if course content differs.

CIS 2991-6 Special Topics for CIS

This course is designed to introduce students to specific areas in Computer

Information Systems. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

Cosmetology

COS 1101 Hygiene and Sanitation I

This course provides you with the necessary information to master the National Industry skill Standard for entry level Cosmetologist. Students will conduct services in a safe environment and take measures to prevent the spread of infectious and contagious disease. Students will safely use a variety of salon products while providing client safety.

COS 1110 Hairdressing I w/Lab

A basic study of the properties of the hair and scalp. Basic hair care, shampooing, rinsing, conditioning, braiding, the care and styling of wigs and hair enhancements, wet styling, thermal straightening (hair pressing), and the principles of hair design with labs.

COS 1121 Related Science I

A study of cell growth, metabolism, tissues, organs, skeletal and muscular systems, basics of electricity, and basics of chemistry.

COS 1131 Manicuring I

A study of skin and nails, which includes manicuring, pedicuring, and massage.

COS 1141 Cosmetic Therapy I

A study of histology of the skin, hair removal, skin care facial, electrotherapy and light therapy, facial makeup, and eyebrow arching.

COS 1151 Salesmanship, Shop Management, and Shop Department I

A study of the principles of selling and practice of applying knowledge to give the client full service through management and shop department.

COS 1201 Hygiene and Sanitation II

Pre-requisite: COS 1101. A continuation of COS 1101, This course provides you with the necessary information to master this National

Industry skill Standard for entry level Cosmetologist. Students will conduct services in a safe environment and taking measures to prevent the spread of infectious and contagious disease. Students will safely use a variety of salon products while providing client safety.

COS 1210 Hairdressing II w/Lab

Pre-requisite: COS 1110. A continuation of COS 1110, this course is a basic study of the properties of the hair and scalp. Basic hair care, shampooing, rinsing, conditioning, braiding, the care and styling of wigs and hair enhancements, wet styling, thermal straightening (hair pressing), and the principles of hair design with labs.

COS 1221 Related Science II

Pre-requisite: COS 1121. A continuation of COS 1121, a study of cell growth, metabolism, tissues, organs, skeletal and muscular systems, basics of electricity, and basics of chemistry.

COS 1231 Manicuring II

Pre-requisite: COS 1131. A continuation of COS 1131, a study of skin and nails, which includes manicuring, pedicuring, and massage.

COS 1241 Cosmetic Therapy II

Pre-requisite: COS 1141. A continuation of COS 1141, a study of histology of the skin, hair removal, skin care facial, electrotherapy and light therapy, facial makeup, and eyebrow arching.

COS 1251 Salesmanship, Shop Management, and Shop Department II

Pre-requisite: COS 1151. A continuation of COS 1151, a study of the principles of selling and practice of applying knowledge to give the client full service through management and shop department.

COS 2301 Hygiene and Sanitation III

Pre-requisites: COS 1201. A continuation of COS 1201, This course provides you with the necessary information to master this National Industry skill Standard for entry level Cosmetologist. Students will conduct services in a safe environment and taking measures to prevent the spread of infectious and contagious disease.

Students will safely use a variety of salon products while providing client safety.

COS 2310 Hairdressing III w/Lab

Pre-requisites: COS 1210. A continuation of COS 1210, this course is a basic study of the properties of the hair and scalp. Basic hair care, shampooing, rinsing, conditioning, braiding, the care and styling of wigs and hair enhancements, wet styling, thermal straightening (hair pressing), and the principles of hair design with labs.

COS 2321 Related Science III

Pre-requisites: COS 1221. A continuation of COS 1221, a study of cell growth, metabolism, tissues, organs, skeletal and muscular systems, basics of electricity, and basics of chemistry.

COS 2331 Manicuring III

Pre-requisites: COS 1231. A continuation of COS 1231, a study of skin and nails, which includes manicuring, pedicuring, and massage.

COS 2341 Cosmetic Therapy III

Pre-requisites: COS 1241. A continuation of COS 1241, a study of histology of the skin, hair removal, skin care facial, electrotherapy and light therapy, facial makeup, and eyebrow arching.

COS 2351 Salesmanship, Shop Management, and Shop Department III

Pre-requisites: COS 1251. A continuation of COS 1251, a study of the principles of selling and practice of applying knowledge to give the client full service through management and shop department.

COS 2405 Theory and Practical Application

A course covering all faces of Cosmetology. Theory and practical applications are stressed.

Economics

ECON 2003 Principles of Economics I

Each semester. Macroeconomic analysis of output, income, employment, price level, and business fluctuations, including the monetary

system, fiscal and monetary policy, and international economics.

English

(A grade of "C" or better must be earned in the course used to satisfy the English general education requirement.)

ENGL 0303 Foundational Composition

A course in basic grammar and writing to prepare students for the required six-hour composition sequence. 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 1013 Composition I

Prerequisite: 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. May not be taken for credit after successful completion of ENGL 1043.

ENGL 1023 Composition II

Prerequisite: Minimum grade of "C" in ENGL 1013 or 1043. A continuation of ENGL 1013 with readings in poetry, fiction, and drama. 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. May not be taken for credit after successful completion of ENGL 1013.

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. May not be taken for credit after successful completion of ENGL 1023. 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. 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. ENGL 2013 may be used to fulfill the general education humanities requirement.

ENGL (JOUR) 2173 Introduction to Film

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. ENGL 2173 may be used to fulfill the General Education fine arts requirement. ENGL 2173 may not be repeated for credit after the completion of JOUR 2173.

Enology (pending approval)

VIN 1463 Introduction to Enology

Prerequisite:none This is an introductory course in the basic science and technology of winemaking. It is intended for the entrepreneur exploring business opportunities in the grape wine industry, and/or the prospective small winery employee interested in career development. The home winemaker that has never undergone any formal training on the subject may also benefit from this basic course. Students will make wine at home from a kit, track fermentation,

make various chemical measurements and provide one bottle of finished wine to the instructor for evaluation at the conclusion of the course.

VIN 1483 Winery Sanitation

Prerequisite: Introduction to Enology VIN1463 (recommended) or permission. This is a course in the basic science and technology of winery sanitation. The course serves as an introduction to wine microbiology and covers all methods used for winery sanitation including premises, tanks, pumps, filters, oak barrels and sampling equipment, including but not limited to chemical agents, reagents, and thermal treatments leading to sterile bottling. Environmental issues and compliance are also addressed.

VIN 1593 Grape Varieties of Mid America (Ark Wines)

Prerequisite: none This course is designed to introduce students to the grape varieties best suited to the Mid American region with an emphasis on the Arkansas grape growing region. Students will benefit from in depth analysis of the regional factors which contribute to Midwest grape production.

VIN 1602 Winery Equipment Operations

Prerequisite: Introduction to Enology VIN 1463 (recommended) or permission. This course covers process technologies and process systems that are used in modern commercial wineries. The course will include lectures, demonstrations and two day workshop. Overview of winemaking systems including winemaking operations and equipment, barrel aging and barrel management, membrane separation processes, specialized contacting systems, cleaning and sanitation systems, process control systems, refrigeration systems, air conditioning and humidity systems, electrical systems, waste water systems, solid waste handling, and work place safety.

VIN 2103 Introduction to Wine Microorganisms

Prerequisite: none This course is

an introduction to the variety of microorganisms frequently encountered in the wine making process but beneficial and harmful. Topics include identification, physiology, morphology and biochemistry of various wine microorganisms.

VIN 2463 Intermediate Enology

Prerequisite: Introduction to Enology-VIN 1463 or permission. This course in the science and technology of winemaking is intended for the experienced intermediate winemaker, the winery employee interested in career development, or the advanced home winemaker that is seeking new challenges. Basic organic chemistry, microbiology, and some mathematics familiarity are recommended.

VIN 2663 Sensory Evaluation

Prerequisite: Introduction to Enology-VIN 1463 or permission. This is a course intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial wine making. It will also be of benefit to the wine enthusiast who is interested in reaching advanced levels of appreciation as well as to the producer, the wine merchant, and ultimately the enologist, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students will utilize sensory kits and workshops to further their sensory evaluation skills and techniques.

VIN 2683 Wine and Must Analysis

Prerequisite: Introduction to Enology-VIN 1463 and CHM 1114 or permission Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students will participate in workshops and hands-on experiences at participating wineries.

VIN 2573 Fall Wine Production Internship

Prerequisites: Introduction to Enology - VIN 1463, Winery Sanitation - VIN 1483, Winery Equipment Operation - VIN 1602, Intermediate Enology - VIN

2463 or permission

This course is designed for the individual anticipating a career in the wine industry. This course (internship) is designed to provide a student who has completed major course sequences with an intense level of practical and realistic winery operation experiences, sufficient to equip him/her with sufficient skills and work experience for an entry-level position in the wine industry. Students involved in this program will participate in a full time Crush Season internship at a supporting winery, and are expected to use the time and opportunities to further their understanding of the winemaking process and common winery operations.

VIN 2592 Cellar Operation Technology

Prerequisite: Wine Production Internship - VIN 2573 or permission

This course is designed to provide students initiated in the field of enology with actual and practical exposure to the technology of wine making as is performed during the passive vineyard periods associated with winter. The student is expected to improve his understanding of the methods and science involved by on-site participation in each of the various activities associated with finished wine production. The course is designed to serve as actual practical exposure and may qualify as experience for those seeking employment in commercial enology.

Facilities Maintenance/ Management

FAC 2202 Carpentry

Students will learn basic carpentry skills, power and hand tool safety, the proper use of power and hand tools, framing, trim, and hanging doors and windows. Also covered will be dry wall basics, painting, and basic masonry. Some cabinet making and architectural blueprint reading will be discussed.

FAC 2203 Facilities Analysis and Troubleshooting

Students will analyze configuration of facility structures such as roof pitches and metal beam structure

support ratings using geometric figures. Students will also troubleshoot structural design flaws, facilities fixture design calculations, and load calculations of the facility units.

FAC 2212 Plumbing

Basic plumbing skills will be taught and will include: fixture repair and replacement; piping (water and gas piping); piping drops, angles, and sizes; and basic plumbing codes for commercial and residential facilities.

FAC 2222 Grounds Maintenance

Landscape management, chemical usage and storage, MSDS file care, ADA compliance, and safety and reliability topics will be covered.

Geography

GEOG 2013 Regional Geography of the World

Prerequisite: Minimum score of 19 on the English and Reading portions of the ACT or successful completion of ENGL 1013 or equivalent. A survey of major regions with particular emphasis upon Europe, the Commonwealth of Independent States, the Orient, the Mid-East, Africa, and Latin America.

Geology

GEOG 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. Lecture three hours, laboratory three hours. \$10 laboratory fee. Duplicate credit for GEOL 1004 and GEOL 1014 will not be allowed.

GEOG 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. Lecture three hours, laboratory three hours. \$10 laboratory fee. Duplicate credit for GEOL 1014 and GEOL 1004 will not be allowed.

History

HIST 1503 World Civilization I

The political, economic, and social development of man from the earliest times to the modern period. May not be taken for credit after completion of HIST 1403.

HIST 1513 World Civilization II

Continuation of HIST 1503. May not be taken for credit after completion of HIST 1413.

HIST 2003 United States History I

Prerequisite: Minimum scores of 19 on the English and Reading portions of the ACT or successful completion of ENGL 1013 or equivalent. A study of the development of the American nation to the Civil War and Reconstruction.

HIST 2013 United States History II

Prerequisite: Minimum score of 19 on the English and Reading portions of the ACT or successful completion of ENGL 1013 or equivalent. A continuation of HIST 2003.

Industrial Control Systems

ICS (CIS) 1103 Programming I

This course is a study of the basic programming language, using Visual Basic . The student is taught how to write basic programs using different programming techniques. Most of the programs that are written apply directly to the study of electronics, both D.C. fundamentals and digital principles.

ICS 1104 Fundamentals of Electricity

This course is an overall study of the fundamental principles of D.C. and A.C. circuits. A basic study of Ohm's Law, series, parallel and series parallel resistor circuits. The fundamental concepts form the basis for the study of advanced applications of electronic systems. It is necessary for the

electronic technician to be able to understand the basic concepts to function as an Electronic Technician.

ICS (CIS) 1143 Introduction to Digital Logic

This is an introductory course in the study of Digital Logic Systems. Basic digital logic gates, truth tables, numbering systems, and different types of TTL integrated circuits are studied.

ICS 1123 Semiconductors I

Prerequisite or Corequisite: ICS 1104. This course introduces semiconductors or solid-state components. Topics covered include the diode and applications, transistors, and amplifiers.

ICS (CIS) 1153 Networking I

Designed as a foundation course that provides the theory and basic understanding of the hardware and software that comes together to build local area and wide area networks.

ICS (CIS) 1253 Networking II

Pre-requisite: CIS 1153. Builds upon the skills and concepts learned in Networking I. Emphasis will be on the hands-on aspects of personal computer networks using Microsoft and Linux based networking products, including installations and/or expanding a networking system and troubleshooting problems.

ICS/ICS 1303 PC Maintenance

This course is designed to prepare individuals to troubleshoot, build, and repair personal computers, workstations, printers, and other computer peripherals. The student will also learn to install, debug, diagnose, and repair software problems associated with PCs.

ICS 2115 Programmable Controllers

Deals with the subject of programmable controllers (PCs). The PC is a microprocessor-based programmable device used in controlling mechanical machinery, energy management systems, computer integrated manufacturing, and other applications. Lecture: 3 hours, laboratory: 6 hours.

ICS 2116 Basics of Industrial Automation

An illustrated study of circuit configurations used in industry. Topics to be covered are: solid-state systems used to control DC and AC motors, electro-mechanical devices, three phase power, open and closed loop motor control, robotic input and output transducers, various instrumentation and process control classes. Lecture: 9 hours, Laboratory: 5 hours.

ICS 2123 Industrial Fluid Power

This course is designed to provide the basic knowledge and application of physical principles involving pumps, cylinders, valves, motors, design, assembly, graphic symbols, and the operation of hydraulic and pneumatic control circuits based on logic principles. Lecture: 4 hours, laboratory: 1 hour.

ICS 2203 Computer System Components

This course is a study of the internal structure of the microprocessor. The full computer system is analyzed from both aspects of hardware and software. Many of the principles studied apply to computer troubleshooting and computer interfacing. Many of the computer support circuits are studied. Many of the skills learned from Basic Programming, operating systems, and Digital Logic are brought together and enhanced.

ICS 2213 Semiconductors II

Prerequisite: ICS 1123. A continuation of ICS 1123 Semiconductors I, this course is a study of field effect transistors, thristors, and linear integrated circuits.

ICS 2991-6 Special Topics for ICS

This course is designed to introduce students to specific areas in Industrial Control Systems. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

Industrial Systems

TACR 2013 Introduction to Air Conditioning Systems

This course is designed to teach the principles of the basic refrigeration cycle, including temperature-pressure relationships, evaporation, condensation, heat transfer, and refrigerants. The identification and use of hand tools, as well as safety principles and practices will be taught. Practical application is provided through laboratory activities.

TACR 2213 Introduction to Boiler and Steam Generation

This course is designed to teach the components, operation, and design characteristics of steam generation systems. Upon completion of this course, students will possess the knowledge needed to sit for the Arkansas Boiler License Exam. Students will gain experience on actual industrial equipment.

TACR 2223 Ammonia Refrigeration Systems

This course is designed to teach the components, operations, and design characteristics of commercial ammonia refrigeration systems. Applications of these principles combined with practical experience on actual commercial equipment should provide the student with the knowledge and skills to diagnose and repair normal equipment malfunctions.

TDFT 1013 Blueprint Reading for Machine Trades

This course is designed to develop basic skills in reading blueprints and introduces the student to various types of working drawings for engineering and manufacturing purposes. Emphasis is placed on understanding basic concepts of orthographic projection and the ability to visualize objects.

TELT 1013 Fundamentals of Electricity

This course is a program cornerstone presenting the concepts of electricity and magnetism. AC and DC currents and voltages are explained. Ohm's law and the power equation are used to analyze series, parallel, and series-

parallel resistive circuits. Fundamental theorems are used in the analysis of resistor networks. It is a study of various combinations of resistors, capacitors, and inductors into circuits that contain both resistance and reactance.

TELT 1123 Industrial Electricity

Prerequisites: TELT 1013. This course is a study of the fundamentals of motors and motor control. The National Electrical Code standards for all circuits are emphasized. Content includes industrial applications of electronics. Subjects studied include relay ladder logic and troubleshooting, SCRs, Triacs, UJTs, polyphase rectifiers, AC/DC motor speed control, inverters, and advanced control systems.

TELT 1223 Solid State

Prerequisite: TELT 1123. Semiconductor theory will explain the P.N. junction and its application in transistors and diodes. The principles of DC power supplies, amplifiers, and oscillators will be studied, ending with the application of field effect transistors. Positive and negative feedback circuits are covered including operational amplifiers, tuned amplifiers, Class A, B, and C amplifiers

TELT 1313 Digital Electronics

Prerequisites: TELT 1223. This course will provide the basic understanding of digital circuitry. Boolean algebra and digital circuits will be stressed. These principles will be applied to understanding the concepts of microprocessors. The basic principles of microprocessors--architecture, instruction set, arithmetic and logical operations, and read-only and read/write memory will be taught. These principles will be applied to other industry-standard microprocessors.

TELT 2013 Programmable Logic Controllers (PLC) Applications

Prerequisite: TELT 1123. This course provides the student with an overview of the selection, programming, operation, and capabilities/limitations of programmable logic controllers. Application examples presented will define design requirements for input/output cards, memory requirements,

scan time, update time, documentation, data highway/host computer interface, etc.

TELT 2223 Troubleshooting Electrical and Electronic Systems

Prerequisites: TELT 1123. This course covers a wide range of electronic power supplies, from basic rectifiers to complex switch-mode, DC power supplies, amplifiers, and oscillators will be studied.

TELT 2233 Advanced PLC Systems

Prerequisite: TELT 2013. This course should provide the student with the comprehensive procedures needed to design and program a PLC System. Design and installation specifications will be examined to provide the student with a first experience in implementing process control systems. Hardware and software selection, as well as, Man to Machine Interface (MMI) will also be discussed. An emphasis will be given to advanced ladder logic programming techniques. Practical programming applications will be provided through laboratory activities.

TELT 2503 Industrial Systems: Special Topics

Prerequisites TELT 1013, 1313. This course is designed to provide special instruction on new and emerging topics in electronics and mechanical technology that are not otherwise covered in this curriculum. Topics for this course will be determined by the industry, the technology and the equipment to which the students are exposed. This instruction is designed to provide the student with the knowledge and skills to diagnose and repair complex equipment malfunctions.

TELT 2991-5 Advanced Problems in Industrial Systems

Prerequisites: TELT 2503 or consent of advisor. This course is designed to provide advanced instruction to INDS majors in handling and solving special problems associated with unique and advanced systems in the industrial mechanical and electronic environment to which the students are exposed. It is designed to provide advanced students with further study and practical hands-

on experience in a particular area. Variable credit from one to five hours may be assigned depending on the course topic and content.

TIPM 1103 Hydraulics and Pneumatics

This course is a study of the basic industrial fluid power systems common to the field of automation, including basic principles, components, standards, symbols, circuits, and troubleshooting of hydraulic and pneumatic systems.

TIPM 1203 Maintenance of Plumbing Systems

This course is designed to provide special instruction in the process of identifying tubing and piping with practical applications in sizing and fitting to different configurations using mechanical fittings, soft soldering, silver brazing and aluminum soldering. The course also provides the student with the knowledge and skills to diagnose and repair commercial plumbing systems.

TMAC 1013 Basic Machine Shop

Prerequisite: TMAT 1003. This course covers the use of hand tools, drills, lathe cutting tools, and tapers, and study the methods of machining them. Instructions are given in the care and operation of basic machine tools, measuring instruments, and shop safety procedures. Shop projects are designed to provide practice in accurate turning, knurling, threading, and other operation on the lathe.

TMAC 1023 Machine Set-Up and Operation

Prerequisite: TMAC 1013. This course covers the set-up and operation of drilling machines, milling machines and grinders. Students learn abrasives, precision part layout and inspection, drilling, tapping, reaming and boring, as well as the care and used of precision measuring instruments.

TMAC 1133 Welding Option

This course is comprised of in-depth study and practice of the gas tungsten arc welding process. The student's experience begins with the development of manipulative skills through the media of oxyacetylene

welding, then progresses to similar applications with TIG welds in the standard positions. Joint designs are mastered on carbon steel, aluminum, and stainless steel.

TMAT 1003 Technical Mathematics

Prerequisite: MATH 0903 or required placement score. Designed for students in occupational and technical programs, this course includes measurement, operations with polynomial expressions, use of equations and formulas, systems of linear equations, basic geometry, basic trigonometry, and basic statistics, with emphasis on industrial and other practical applications. This course requires a calculator capable of doing arithmetic with fractions.

Internship

INT 1903 Internship

Provides students with experience in a business setting. Students will participate in internship during the final phase of program completion. There will be contracts signed between the school, students, and training site stating the rules and objectives of the internship.

INT 2903 Internship

Provides students with experience in a business setting. Students will participate in internship during the final phase of program completion. There will be contracts signed between the school, students, and training site stating the rules and objectives of the internship.

INT 2904 Internship

Provides students with experience in a business setting. Students will participate in internship during the final phase of program completion. There will be contracts signed between the school, students, and training site stating the rules and objectives of the internship.

Journalism

JOUR (ENGL) 2173 Introduction to Film

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. JOUR 2173 may be used to fulfill the fine arts General Education requirement. JOUR 2173 may not be repeated for credit after the completion of ENGL 2173.

Law Enforcement

LE 1003 Introduction to Law Enforcement

This course covers the basics of law enforcement including the responsibilities, opportunities, and advances in the field of law enforcement. The instructor selects pertinent and current topics as the focus of the course.

LE 1013 American Legal System

A survey of basic framework of the American legal system, including a brief history, civil procedure, constitutional law, common law, administrative regulation with particular emphasis on the ethical, sociocultural, and political influences affecting such environments.

LE 1023 Judicial Process

A comprehensive study of judicial process, criminal procedure, and behavior in criminal and civil law as well as the structure and operations of the local, state, and national court systems.

LE 1033 Public Relations in Law Enforcement

A study of proper law enforcement conduct in the public forum including public opinion, mass media, and solving public relations problems.

LE 1043 Criminal, Civil, and Juvenile Law

An in-depth look at state and local law including structure, statuses, and roles.

LE 1053 Spanish for Law Enforcement

Useful terminology and expressions for the law enforcement situation with a minimum of grammar.

LE 2003 Interview, Interrogation, and Testimony

Designed to develop interviewing and interrogation techniques, critical thinking, and persuasive speaking

ability. Includes lecture, discussion, research, study of courtroom testimony, classroom debates, and presentations.

LE 2013 Intro to Computer Crime

Prerequisite: Intro to Computers. This course examines the use of computers in the commission of crimes and civil wrongs and basic computer forensic investigation techniques. The course emphasizes techniques for identifying financial fraud, identity theft, locating and picking victims and offenders with a survey of associated laws, regulations, and international standards.

LE 2991-6 Special Topics for LE

This course is designed to introduce students to specific areas in Law Enforcement. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

Mathematics

(A grade of "C" or better must be earned in the course used to satisfy the Mathematic general education requirement.)

MATH 0803 Beginning Algebra

Content of this course is as follows: the language of algebra, fundamental operations, signed numbers, equations and problem solving. 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 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. 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

Prerequisite: 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.

MATH 1103 Algebra for General Education

Prerequisite: 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. Content of course will include data analysis through a study of regression equations, functions, including polynomial, rational, and exponential, variation, modeling, and systems of equations. May not be taken for credit after completion of MATH 1113 or any higher level mathematics course.

MATH 1113 College Algebra

Prerequisite: 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. Students scoring 19 or 20 on the mathematics portion

of the ACTE exam (or comparable test scores). Exponents and radicals, introduction to quadratic equations, systems of equations involving quadratics, ratio, proportion, variation, progressions, the binomial theorem, inequalities, logarithms, and partial fractions. May not be taken for credit after completion of MATH 2703 or any higher level mathematics course.

Music

MUS 2003 Introduction to Music

Prerequisite: None. An overall view of music history from Medieval to Contemporary times with a focus on relating musical happenings and concepts to the other arts.

Paramedic/Emergency Medical Services

EMTP 1001 First Aid and CPR for Health Care Providers

Student in this course will learn to recognize and provide first aid for injuries ranging from simple lacerations to musculoskeletal injuries. Students will also learn how to recognize various medical emergencies ranging from heart attacks to allergic reactions. Students will complete requirements for certification in first aid, adult, child and infant CPR including Automated External Defibrillator (AED). This course is recognized by health care agencies, fire departments, police departments and local industries.

EMTP 1003 Medical First Responder

This course is designed to train students to perform in pre-hospital care of acutely ill or injured patients. Medical First Responders perform such measures as cardiopulmonary resuscitation, extrication, initial patient assessment and triage, and stabilization of any emergency.

EMTP 1007 Basic Emergency Medical Services Training

This course is designed to train students to perform in pre-hospital care of acutely ill or injured patients. EMTs perform such measures as cardiopulmonary resuscitation, extrication, initial patient assessment and triage, stabilization and transport

of any emergency, to include routine transport of non-emergent patient to allied health care facility.

EMTP 1103 Life Span Development

Designed to prepare the student for the psychological development of infancy to geriatrics. The course of study will emphasize on normal and abnormal physiological changes in people, both during their growth and development.

EMTP 1107 Intermediate Emergency Medical Services Training

This course is designed to train students to perform in pre-hospital care of acutely ill or injured patients. EMTs perform such measures as cardiopulmonary resuscitation, IV access, extrication, initial patient assessment and triage, stabilization and transport of any emergency, to include routine transport of non-emergent patient to allied health care facility.

EMTP 1113 Pharmacology I

Pharmacology I is an introduction to the history of drugs, use of drug references, principles of drug actions and interaction, principles of drug administration, and their legal implications for the paramedic.

EMTP 1123 Pre-hospital Environment

The role of the advanced pre-hospital provider in the EMS system is emphasized along with the legal responsibilities and liabilities of the EMS environment. The course will include the utilization of medical direction and use of EMS protocol, ethics and the well being of EMS personnel is emphasized with emphasis on illness and injury prevention. Students will also learn rescue, stress management, and triage. Hazardous materials will be taught as well as violence, with emphasis on pre-hospital provider safety.

EMTP 1133 Anatomy and Physiology

This course is the basic study of human anatomy and physiology. Students will study body systems and functions of human organisms. Students will learn basic biological chemistry and have an understanding of all systems and how homeostasis in human bodies is achieved.

EMTP 1201 Patient Assessment/ Pathophysiology of Shock

Will learn an advanced and comprehensive approach to patient assessment and history taking. Students will apply current patient status and will continue to gather pertinent patient data. Review of anatomy and physiology with a more direct approach and emphasis on particular age groups. Students will use patient data with head to toe examinations and the use of mnemonics such as SAMPLE. An empathic approach will be discussed in this section. Introduction to the phases of shock with emphasis of physiological changes at the cellular level. The student will have an understanding of disease process and fluid and acid-base balance. Students will gain the knowledge of assessment and management of patients with hypoperfusion including various forms of shock, multiple organ dysfunction syndrome, and cellular metabolism impairment. Students will have the knowledge of assessment and treatment of various shock conditions.

EMTP 1221 Pharmacology II

Utilizes the EMT 1113 Introduction to Pharmacology I course objectives to help the student gain a greater understanding of more advanced drug therapy. This section of pharmacology will focus on cardiac medications and administration to pediatric, adult and geriatric patients in the clinical and pre-hospital setting. A basic knowledge of cardiac complaints and medications that are required for proper treatment and stabilization will be covered into this portion. Additional medications taught will include thrombolytic and respiratory medications.

EMTP 1223 Clinical Practicum I

The student will receive supervised/preceptor clinical experience in the emergency department, respiratory therapy, and operating room. Students will perform patient procedures under the guidance of a professional health care preceptor with expertise in the patient care area. Students will observe care of critical and non-critical patients. Students will be required to assess and

document on specific age and diverse complaint based patients while in the clinical area. Students will earn a team approach in the clinical area while performing basic and advanced patient skills check-off in Lab I.

EMTP 1231 Lab I

Review and successfully perform EMT Basic skills. Advanced skill demonstration and proficient performance evaluations that will prepare the student for practical use in clinical and field internship. Advanced airway, intravenous therapy, intramuscular injections, and IV medication administration. Emphasis on patient rights in the area of health care.

EMTP 1302 Rhythm Recognition

Students will gain knowledge of EKG monitoring of leads I, II, and III. Students will learn the basic electrophysiology of cardiac conduction through the heart. Emphasis is on the study of arrhythmia etiologies and irregular waveforms and arrhythmia recognition. The knowledge and ability to perform cardioversion, noninvasive TCP pacing and 12-Lead Interpretation and application will be presented in this section.

EMTP 1304 Medical Emergencies I

This section teaches a systematic approach to assessment of cardiac patients with pathological disease processes and acute coronary symptoms. Students will learn to manage patients with cardiac pharmacological and electrical interventions. Designed to teach a comprehensive approach to cardiac patients with cardiovascular compromise. Students will study pulmonary disease and common acute reactions with review of pulmonary anatomy and treatment. Students will understand a comprehensive approach and clinical assessment and treatment for medical emergencies. Behavioral emergencies, neurology, anaphylaxis, renal, toxicology, hematology, and endocrinology with gastroenterology will be included in this section with an emphasis on assessment and field treatment.

EMTP 1305 Clinical Practicum II

The student will apply basic and advanced assessment and procedures in the emergency department, Intensive Care Unit, and Operating Room while under supervision of preceptor and/or clinical coordinator. The student will have specific age and patient conditions to evaluate and assist in management of care in the ER department.

EMTP 1331 Lab II

Will be re-evaluated in basic skills learned in Lab I. Students will learn the application of EKG monitors, pacing, synchronized cardioversion, pacing and the practical use of pulmonary oximeters. Students will apply the knowledge of advanced patient assessment to clinical scenarios.

EMTP 1401 Lab III

Will demonstrate all skills learned in Labs I and II. Students will learn pediatric skills such as airway management, invasive therapy, and advanced trauma skills. Students will also demonstrate competency in advanced cardiac life support, pediatric life support, and pre-hospital trauma life.

EMTP 1412 Medical Emergencies II

Designed to train students the understanding of pathophysiology, assessment and management of infectious disease, geriatrics, pediatric/neonatology, and OB/GYN. Medical Emergencies II will emphasize assessment based management of present illness and focused patient complaints. Student will also be prepared for pre-hospital trauma in this session.

EMTP 1413 Clinical Practicum III

Designated preceptors and/or clinical coordinator in the following areas will supervise students: Intensive Care Unit, Surgical Recovery, and Operating Room, and Labor & Delivery. Students will apply knowledge of course information learned and perform procedures that are appropriate for these areas of hospital. Students will have patient condition and age specific criteria to evaluate in this session that is mandatory to course completion.

EMTP 1431 Advanced Cardiac Life Support

Designed to offer health care professionals a high-density course of advanced cardiac knowledge and treatment. The course offers extensive EKG dysrhythmia treatment guidelines and a strong emergency cardiac pharmacological background. This course is for those individuals who are employed for an agency that requires knowledge and training in emergency cardiac care, such as RN's, paramedics, physicians, and other health care professionals who seek advanced level training. The course will train an individual in a systematic approach to treatment of life-threatening cardiac and medical emergencies.

EMTP 1451 Pre-hospital Trauma Life Support

Designed to expand pre-hospital care provider's knowledge of trauma care. The course emphasizes that critically injured patients must be assessed and treated in a rapid systematic approach with aggressive care given en route to the receiving emergency department. Pre-hospital care providers are trained to operate within the Golden Hour, in order to offer a greater chance of patient survival. The course reviews and expands on anatomy and physiology, kinematics of trauma, pediatric and geriatric trauma, and shock treatment. The course can include RN's, paramedics, EMT's, physicians, and other health care providers who seek greater knowledge of trauma care.

EMTP 1461 Pediatric Advanced Life Support

Designed to provide health care professionals a greater knowledge of emergency care for the pediatric age group. This course is advanced level guidelines for medically ill, traumatically ill infants and children. The course stresses critical thinking of the health care provider in life-threatening situations involving this age group. Resuscitation and management, as well as, anatomy and physiology review, pharmacologic lectures and skills check-offs, including a written exam is offered within this course. The

course teaches current health care provider level pediatric emergency care.

EMTP 1512 Assessment Based Management

The student will learn the final aspects of pre-hospital care and management in this session of the paramedic program. The student will learn effective scene and patient management, critical thinking and clinical decision-making. This session will serve as a final analysis of the student's ability to analyze patient information and provide the treatment necessary for the best outcome of the patient's condition. The student must have an understanding of all tasks required of the paramedic provider in the pre-hospital setting prior to the final exit of the paramedic program.

EMTP 2991-6 Special Topics for Paramedics/Emergency Medical Services

This course is designed to introduce students to specific areas in Paramedic/Emergency Medical Services. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

Philosophy

PHIL 2003 Introduction to Philosophy

A survey of basic problems in the major areas of epistemology, ethics, esthetics, philosophy of religion, and philosophical inquiry-metaphysics.

Physical Science

PHSC(BIOL) 1004 Principles of Environmental Science

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. \$10 laboratory fee.

PHSC 1013 Introduction to Physical Science

Each semester. 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. Specific topics are selected from disciplines of physics, chemistry, astronomy, geology, and meteorology. May not be taken for credit after completion of two laboratory courses in the physical science disciplines. Lecture three hours. Note: To enroll in an internet section (TC1) of this course, the prerequisite COMS 1003 or equivalent is required.

PHSC 1021 Physical Science Laboratory

Each semester. 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 1051 Observational Astronomy Laboratory

Fall. Corequisite: MATH 1113 or equivalent; Corequisite: 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. When taken concurrently with PHSC 1053, this course satisfies the general education physical science laboratory requirement upon successful completion of both courses. 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

Fall. Corequisite: MATH 1113 or equivalent or consent of instructor; Optional corequisite; PHSC 1051. 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. When taken concurrently with PHSC 1051, satisfies general education physical science laboratory requirement upon successful completion of both courses. 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. Lecture three hours.

PHSC 3051 Observational Astronomy Laboratory

Spring. Prerequisite: MATH 1113; Corequisite: 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. 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

Spring. Prerequisite: MATH 1113; Optional corequisite; 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. 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. Duplicate credit for previously offered PHSC 3043 is not allowed. Lecture three hours.

Physical Therapist Assistant (Pending Approval)

PTA 1111 Principles of Physical Therapy

This course provides an introduction and orientation to the field of physical therapy. The course includes historical background, medical-professional ethics and conduct, and the role of the PTA as part of the health care team. Course credit: 1 hr lecture. Pre-requisite(s): Admission to the PTA Program

PTA 1122 Clinical Kinesiology

This course provides an introduction to the principles of musculoskeletal anatomy, human movement, and clinical assessment. Students will learn to locate and identify muscles, joints, and bony landmarks of the spine and extremities. Students will also learn

to assess range of motion and muscle strength. Course credit: 2 hrs (lecture) Pre-requisite(s): Admission to the PTA Program

PTA 1121 Clinical Kinesiology Lab

Lab skills practice to apply concepts presented in PTA 1122. Students will learn to perform assessment techniques commonly used in physical therapy including palpation, goniometry, manual muscle testing, and anthropometric measurement. Course credit: 1 hr (lab) Co-requisite(s): PTA 1122

PTA 1132 Pathological Conditions

This course will examine the mechanisms and concepts of selected pathological conditions in the human body. Emphasis is placed on how the specific pathological condition affects the functioning of the system involved, as well as its impact on other body systems. This course includes general pathology with emphasis on the study of diseases and disorders commonly seen in physical therapy practice. Course credit: 2 hrs (lecture) Pre-requisite(s): Admission to the PTA Program

PTA 1222 Principles of Patient Care

This course will introduce students to the theory, principles, and techniques of patient care including, but not limited to: documentation, patient preparation and handling, gathering of vital signs, use of universal precautions, and mobility training using the wheelchair and other assistive devices. Students will also receive an orientation to the psychological and social needs of the ill and disabled. Course credit: 2 hrs (lecture) Pre-requisite(s): Admission to the PTA Program Co-requisite(s): PTA 1221

PTA 1221 Principles of Patient Care Lab

Lab skills practice to apply concepts presented in PTA 1222. Course credit: 1 hr (lab) Co-requisite(s): PTA 1222

PTA 1232 Therapeutic Procedures I

This course will examine the theory and application of physical therapy procedures including massage, superficial heat, cryotherapy, and edema management. Course credit: 2 hrs (lecture) Pre-requisite(s):

Admission to the PTA Program Co-requisite(s): PTA 1231

PTA 1231 Therapeutic Procedures I Lab

Lab skills practice to apply concepts presented in PTA 1232. Course credit: 1 hr (lab) Co-requisite(s): PTA 1232

PTA 2113 Therapeutic Procedures II

This course will examine the theory and application of physical therapy agents including electricity, ultrasound, ultraviolet light, diathermy, and laser. This course will also present information regarding physical therapy treatment procedures utilized for the treatment of wounds, including burns. Course credit: 3 hrs (lecture) Pre-requisite(s): Admission to the PTA Program Co-requisite(s): PTA 2112

PTA 2112 Therapeutic Procedures II Lab

Lab skills practice to apply concepts presented in PTA 2113. Course credit: 2 hrs (lab) Co-requisite(s): PTA 2113

PTA 2121 Neurological Development and Motor Control

This course will examine the principles of normal motor development across the lifespan from infancy to adulthood. Course credit: 1 hr (lecture) Pre-requisite(s): Admission to the PTA Program

PTA 2143 Therapeutic Exercise and Cardiopulmonary Rehabilitation

This course will examine the theory and application of physical therapy procedures for the management of patients with cardiovascular and pulmonary conditions. This course will also examine the theory and application of therapeutic exercise. Course credit: 3 hrs (lecture) Pre-requisite(s): Admission to the PTA Program Co-requisite(s): PTA 2142

PTA 2142 Therapeutic Exercise and Cardiopulmonary Rehabilitation Lab

Lab skills practice to apply concepts presented in PTA 2143. Course credit: 2 hrs (lab) Co-requisite(s): PTA 2143

PTA 2152 Administrative Procedures

This course will examine the

administrative aspects of providing physical therapy services including reimbursement, quality improvement, laws and professional liability regarding the delivery of physical therapy services, administrative principles, and organizational patterns. Course credit: 2 hrs (lecture) Pre-requisite(s): Admission to the PTA Program

PTA 2212 Musculoskeletal Rehabilitation

This course will examine the theory and application of physical therapy interventions for the management of patients with specific musculoskeletal conditions. A review of basic assessment and treatment procedures will be included. Course credit: 2 hrs (lecture) Pre-requisite(s): Admission to the PTA Program Co-requisites(s): PTA 2211

PTA 2211 Musculoskeletal Rehabilitation Lab

Lab skills practice to apply concepts presented in PTA 2212. Course credit: 1 hr (lab) Co-requisite(s): PTA 2212

PTA 2222 Neurological Rehabilitation

This course will examine the theory and application of physical therapy interventions for the management of specific neurological disorders. A review of basic assessment and treatment procedures will be included. Course credit: 2 hrs (lecture) Pre-requisite(s): Admission to the PTA Program Co-requisite(s): PTA 2221

PTA 2221 Neurological Rehabilitation Lab

Lab skills practice to apply concepts presented in PTA 2222. Course credit: 1 hr (lab) Co-requisite(s): PTA 2222

PTA 2164 Clinical Experience I

This course is the first clinical experience in the PTA program curriculum. Students will perform 200 hours of clinical practice in a physical therapy setting while under the supervision of a licensed physical therapist assistant and/or licensed physical therapist. Students will apply the knowledge and skills acquired from

previous didactic learning as deemed appropriate by the clinical instructor. Course credit: 4 hrs (clinical) Pre-requisite(s): Instructor approval

PTA 2234 Clinical Experience II

This course is the second clinical experience in the PTA program curriculum. Students will perform 200 hours of clinical practice in a physical therapy setting while under the supervision of a licensed physical therapist assistant and/or licensed physical therapist. Students will apply the knowledge and skills acquired from previous didactic learning as deemed appropriate by the clinical instructor. Course credit: 4 hrs (clinical) Pre-requisite(s): PTA 2164 and instructor approval

PTA 2235 Clinical Experience III

This course is the third clinical experience in the PTA program curriculum. Students will perform 240 hours of clinical practice in a physical therapy setting while under the supervision of a licensed physical therapist assistant and/or licensed physical therapist. Students will apply the knowledge and skills acquired from previous didactic learning as deemed appropriate by the clinical instructor. Course credit: 5 hrs (clinical) Pre-requisite(s): PTA 2234 and instructor approval

PTA 2303 Directed Study

An individualized course of study which includes topics related to physical therapy. Course credit: 3 hrs Pre-requisite(s): Program Director approval

Physics

PHYS 1114 Applied Physics

Fall. A survey of selected topics in physics. The "scientific method", mechanics, fluid mechanics, heat, electricity, sound, light, and nuclear radiation will be studied. May not be taken for credit after completion of PHYS 1014, PHYS 2024, PHYS 2114, or PHYS 2124. Lecture three hours, laboratory three hours. \$10 laboratory fee.

PHYS 2014 Physical Principles I

Fall, and summer (On demand). Concurrent enrollment in PHYS 2000 is required. Prerequisite: A grade of C or better in MATH 1113 or consent of the instructor. 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

Spring, and summer (On demand). Concurrent enrollment in PHYS 2010 is required. Prerequisite: PHYS 2014 or permission of instructor. 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

Fall. Concurrent enrollment in PHYS 2000 is required. Pre- or co-requisite: MATH 2924. Introductory mechanics, heat and thermodynamics, kinetic theory, and sound. Lecture three hours, laboratory three hours. \$10 laboratory fee.

PHYS 2124 General Physics II

Spring. Concurrent enrollment in PHYS 2010 is required. Prerequisite: Permission of instructor; pre- or corequisite: MATH 2934. Introductory electricity and magnetism, wave motion, optics, and elementary quantum concepts. Lecture three hours, laboratory three hours. \$10 laboratory fee.

Political Science

POLS 2003 American Government

Prerequisite: Minimum score of 19 on the English and Reading portions of the ACT or successful completion of ENGL 1013 or equivalent. 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.

Practical Nursing

LPN 1101 Vocational, Legal, and Ethical Concepts

Teaches vocational responsibilities of the Practical Nurse to the patient, family community, and coworkers. Nursing organizations, local, state and national health resources, and concepts of delegation appropriate to the level of practice are also covered.

LPN 1102 Pharmacology I

Pharmacology I is an introduction to the history of drugs, use of drug references, principles of drug actions and interaction, principles of drug administration, and their legal implications for the nurse.

LPN 1103 Body Structure and Function

This course is the study of anatomy and physiology of the human body and all of its systems. Medical terminology is integrated and an introduction to disease processes is included with each unit.

LPN 1111 Nursing of the Geriatric Patient

This course covers the normal aging processes, characteristics of aging, special problems associated with aging and caring for the aging adult.

LPN 1114 Basic Nursing Principles and Skills I

Co-requisite: LPN 1115. This course covers the fundamental principles, skills, and attitudes needed to give nursing care and prevent the spread of disease. Procedures used in the care of the sick and the ability to adapt them to various situations are discussed. Students will learn to document their observations and interventions.

LPN 1115 Clinical I

Co-requisite: LPN 1114. Clinical skills will be practiced, observed, and evaluated by the instructors in the lab and clinical settings.

LPN 1121 Nutrition in Health and Illness

The importance of nutrition and its relation to proper growth and functioning and the maintenance of health are covered.

LPN 1202 Nursing of Adults with Medical/Surgical Conditions I

Students will study common conditions of illness and the nursing care of patients in acute, sub-acute, or convalescent stages of illness. This course includes aspects and principles of Nutrition; Basic Nursing; Pharmacology; Vocational, Legal, and Ethical concepts with attention to cultural diversity.

LPN 1203 Nursing of Mothers and Infants

Nutrition for the mother and the developing fetus and the basic nursing skills to care for the mother during antepartum, intrapartum, and postpartum periods are studied.

LPN 1210 Clinical II

Prerequisite: LPN 1115. This course focuses on the skills needed by the nurse to provide the care in a safe and comforting manner.

LPN 1211 Basic Nursing Principles and Skills II

Prerequisite: LPN 1114. This course covers the advanced skills and procedures concerned with administering safe patient care. Skills related to the maternal-child and pediatric patients are included.

LPN 1221 Pharmacology II

Prerequisite: LPN 1102. A continuation of LPN1102. The preparation of drugs by enteral, parenteral, and percutaneous administration is continued. Intravenous medications, delivery systems, and techniques for administration are included in this course.

LPN 1302 Nursing of Children

Principles of growth and development, nursing of the infant through adolescence and the behavior of well and sick children are studied in this course. Differences in the functioning of the child's body systems are contrasted with that of the adult patient as well as differences in the child's response to illness.

LPN 1303 Nursing of Adults with Medical/Surgical Conditions II

Prerequisite: LPN 1202. This course

covers the body system disorders, their diagnostic methods, treatment or surgical procedures, therapeutic nutrition, and pharmacological modalities.

LPN 1312 Clinical III

Prerequisite: LPN 1115. Includes clinical areas in the mental health, pediatric, and specialty areas of the clinical facilities. The opportunity to practice advanced basic nursing and pediatric procedures will be offered during these rotations.

LPN 1322 Mental Health

This course presents topics such as personality development patterns, developmental task throughout the life-cycle, mental disease, and emotional problems as well as chemical dependency. Geriatric, maternal, and pediatric problems are included. Therapeutic communication techniques are stressed.

Psychology

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.

Reading

READ 0103 College Reading

A course designed to develop reading skills through perception training, vocabulary building, comprehension training, and active listening exercises. Individual diagnosis and prescription is emphasized. 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 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.

Sociology

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.

Theatre

TH 2273 Introduction to Theatre

Prerequisite: ENGL 1013 or equivalent. TH 2273 may be used to fulfill the fine arts general education requirement. A study of theatre as an art form with particular attention to scenic, dramatic, literary and historic elements.

Viticulture (Pending Approval)

VIN 1113 Introduction to Viticulture and Vineyard Establishment

Prerequisite: none This course is designed to introduce students to viticulture in general and to current practices for establishing a commercial vineyard. Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, weed control, vine disease control, and pruning for training purposes. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course.

VIN 1132 Winter Viticulture and Vineyard Establishment

Prerequisite: VIN 1113 or permission from instructor. This course is designed to provide students initiated in the field of viticulture practical experience in winter vineyard operations. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course which will serve as work experience for those seeking employment in commercial viticulture.

VIN 1142 Spring Viticulture Technology

Prerequisite: Introduction to Viticulture and Vineyard Establishment-VIN 1113 or permission. This course is designed to provide students initiated in the field

of viticulture practical experience in spring vineyard operations. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course which will serve as work experience for those seeking employment in commercial viticulture.

VIN 1152 Summer/Fall Viticulture Technology

Prerequisite: Introduction to Viticulture and Vineyard Establishment-VIN 1113 or consent of the instructor or Winter/Spring Viticulture Technology-VIN 1132 (recommended). This course is designed to provide students initiated in the field of viticulture practical experience in summer/fall vineyard operations. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course which will serve as work experience for those seeking employment in commercial viticulture.

VIN 2112 Integrated Pest Management

Prerequisite: none. Effective grape production depends on the grower developing a system of grape management that is appropriate for each vineyard. Decisions need to be made for how to manage all of the normal cultural practices such as planting, fertility, harvesting, and pruning as well as managing the insect, disease, and weed problems that occur either regularly or sporadically. The information in this course will address management issues related to common, expected pest problems as well as the occasional appearance of minor pest problems.

VIN 2132 Midwest Vineyard Management

Prerequisite: Vineyard Establishment and Maintenance-VIN 1113 and Winter/Spring Viticulture Technology-VIN 1132 or permission. This course is a study of commercial grape growing in the Midwest of the United States. Topics include cultivars, vine nutrition, irrigation, canopy management,

pests, maturity sampling and harvest, balanced pruning/cropping and cold injury.

VIN 2363 Grape Varieties of Mid America (Arkansas Grapes)

Prerequisite: VIN 1113 or permission from instructor. This course is designed to introduce students to the grape varieties best suited to the Mid American region with an emphasis on the Arkansas grape growing region. Students will benefit from in depth analysis of the regional factors which contribute to Midwest grape production.

VIN 2933 Soils for Viticulture

Prerequisite: none. The course will explore soil properties and behavior and their influence on wines. The course focuses not only on growth and production, but on the long-term effects of viticulture on soil quality and the wider environment.

Welding Technology

WLD 1103 Introduction to Thermal Cutting

Students will learn the principles and procedures for oxyfuel cutting, plasma cutting, and carbon arc gouging. Safe shop practices will be emphasized.

WLD 1202 Blueprint Reading

Students will learn to read and interpret various kinds of blueprints and working drawings. AWS welding symbols and their meanings will be taught.

WLD 1212 Industrial Safety in Welding

The study of safe and industry accepted practices and equipment necessary for the safe use of all existing manual methods of welding. Student will learn to identify common industrial and occupational hazards and means to avoid accidents.

WLD 1224 Introduction to Arc Welding

This course is intended to teach theory and application of basic Astick@ welding (SMAW). It will cover safety, correct selection of electrodes, practicing beds and the application of correct welds on actual structures.

WLD 1302 Metallurgy

An elementary and practical approach to the structure, marking classifications, machinability and identification of metals and their properties. This will require the use of various manufacturer catalogs, bulletins and charts. Basic heat treatment and how metals are affected will be discussed.

WLD 1403 Welding for Trades and Industry

This course is intended to teach theory and application of Welding for trade and industry. This course will be specific to the needs and applicable to each area of interest. It will cover basic welding safety, correct cutting torch handling, basic Gas Metal Arc Welding, Gas Tungsten Arc Welding and Shielded Metal Arc Welding. Specific applications will be deemed by the appropriate advisor.

WLD 1405 Position Welding

Pre-requisite: WLD 1224 or permission of instructor. A continuation of the study of Arc welding concentrating on more advanced weld positions and varied electrodes. This course will also discuss hardfacing, padding, and the techniques for welding pipe.

WLD 1503 Gas Metal Arc (MIG) Welding

Pre-requisite: WLD 1405 or permission of instructor. Provides student with theory and application of wire feed processes also known as MIG Welding or semi-automatic and automatic processes. The student also gains an understanding of the basic gases and mixtures used for different materials.

WLD 1603 Gas Tungsten Arc (TIG) Welding

Pre-requisite: WLD 1405 or permission of instructor. Study of Gas Tungsten Arc (TIG) Welding commonly referred to as TIG or Heliarc. This course will focus on shielding gases, equipment and feasible use situations. Safety will be addressed and demonstrated in a lab experience.

WLD 1702 Weldment Testing

Covers different types of testing such as destructive and nondestructive.

Students will study guided bend, radiographic, ultrasonic, magnetic particle and dye penetrant tests, and take practical tests that are designed according to AWSD1.1 and ASME Section IX industry standard codes.

WLD 1804 Certification Welding I

Student practices with projects that are designed according to AWSD1.1 and ASME Section IX industry standard codes. The implementation and approval of the codes in accordance with AWSD1.1 and ASME section IX will be addressed. Documentation of procedure will also be covered.

WLD 2804 Certification Welding II

This is a continuation of WLD 184. Student practices and takes practical tests that are designed according to AWSD1.1 and ASME Section IX industry standard codes. The implementation and approval of the codes in accordance with these standards will be addressed. Documentation of procedure will also be covered. Students in this class will have more emphasis in pipe certification.

WLD 2991-6 Special Topics for Welding

This course is designed to introduce students to specific areas in Welding Technology. Course content and credit are designed to meet the needs of the student. The topic will vary from offering to offering; thus, the course may be taken more than once for a total of 6 hours. This course requires 15 clock hours per one semester credit hour.

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