



## Arkansas Tech University - Ozark Campus 2010-2011 Technical Catalog

Ozark, Arkansas  
www.atu.edu/ozark

### 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 Accreditations

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

State Health Department Cosmetology Division  
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) 330-0080

### Enrolling in Arkansas Tech

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.

## University Ozark Campus

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' 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.

## For More Information

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

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 exist. 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](mailto: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.



## Academic Calendar 2010 - 2011

### Summer Session 2010 First Term

Late registration for first term	June 7 - 8
Classes begin	June 7
Last day to register and add courses/change sections	June 8
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	June 11
Preregistration for freshmen for fall semester	May through August
Last day to drop courses with a "W" or change from credit to audit	July 2
Holiday	(Monday) July 5
First term ends	July 9

### Second Term

Late registration for second term	July 12-13
Classes begin	July 12
Last day to register and add courses/change sections	July 13
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	July 16
Last day to drop courses with a "W" or change from credit to audit	August 6
Second term ends	August 13
Graduation	August 14

### Fall Semester 2010

Registration	August 23 - 24
Classes begin	August 25
Last day to officially withdraw/drop courses with full reduction of tuition/fees	August 26
Last day to register and add courses/change sections	August 31
Labor Day holiday	September 6
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	September 29
Mid-term	October 13
Deadline for degree audit (transcript evaluation), December 2011 graduates	October 15
Preregistration for spring semester	November
Thanksgiving holidays	7:00 a.m., November 24 - 7:00 a.m., November 29
Last day to drop courses with a "W" or change from credit to audit	November 29
Reading Day	December 7
End of course examinations	6:00 a.m., December 8 - 12:30 p.m., December 14
Graduation	December 18

### Spring Semester 2011

Registration	January 11 - 12
Classes begin	January 13
Last day to officially withdraw/drop courses with full reduction of tuition/fees	January 14
Martin Luther King Day holiday	January 17
Last day to register and add courses/change sections	January 20
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	February 17
Mid-term	March 4
Deadline for degree audit (transcript evaluation), May 2012 graduates	March 9
Spring holidays	7:00 a.m., March 21 to 7:00 a.m., March 28
Deadline for degree audit (transcript evaluation), summer 2012 graduates	April 1
Preregistration for fall semester	April
Last day to drop courses with a "W" or change from credit to audit	April 21
Reading Day	May 3
End of course examinations	6:00 a.m., May 4 to 12:30 p.m., May 10

Graduation

May 14

Summer Session  
2011  
(tentative)  
First Term

Late registration for first term	June 6 - 7
Classes begin	June 6
Last day to register and add courses/change sections	June 7
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	June 10
Preregistration for freshmen for fall semester	May through August
Last day to drop courses with a "W" or change from credit to audit	July 1
Holiday	(Monday) July 4
First term ends	July 8

Second Term

Late registration for second term	July 11 - 12
Classes begin	July 11
Last day to register and add courses/change sections	July 12
Last day to officially withdraw/drop courses with 80 percent reduction of tuition	July 15
Last day to drop courses with a "W" or change from credit to audit	August 5
Second term ends	August 12
Graduation	August 13

NOTE: The calendar for Weekend College classes or classes with unusual terms may differ from what is printed above. Please check with the instructor and/or the Registrar's Office for more information.



## Administration

### Board of Trustees

Charles Blanchard.....	Russellville
John Chambers III.....	Danville
Tom Kennedy.....	Little Rock
Leigh 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	
Ken Warden III, 2009.....	Chief Business and Community Outreach Officer
A.A.S., Westark Community College, 1993	
B.S., University of Arkansas, 2001	
M.Ed., Arkansas Tech University, 2006	

### Administrative Staff

Jessica Birchler.....	Coordinator of Student Recruitment
Brittany Brunson.....	Employability 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  
 Sherry Tinnerella..... Librarian  
 Holli Weiss..... Academic Advisor  
 Deborah Wood..... Director of Financial Aid

Support Services  
Staff

Sandra Anderson..... Physical Plant Maintenance Supervisor  
 Kathy Bartlett..... Office of Academic Affairs  
 Dianne Bell..... Office of Student Accounts/Purchasing  
 Tracy Chapman..... Physical Plant Maintenance  
 Linda Clifton.....Office of Student Services  
 Debbie Edgin..... Office of Student Services  
 John Gwatney..... Physical Plant Maintenance  
 Stacie Harden..... Office of Student Accounts/Payroll  
 Faith Johnson.....Office of Student Services  
 Justin McGrew.....Physical Plant Maintenance  
 Sharyl Moffit..... Office of Allied Health  
 Beverly Nehus..... Office of the Chancellor/Assistant  
 Christa Nehus..... Bookstore  
 Sandra Nelson.....Career Pathways Initiative  
 Mitzi Reano..... Office of Human Resources  
 Julie Schmalz.....Office of Student Services/Financial Aid  
 Charles Stacy.....Physical Plant Maintenance  
 Charles Stacy.....Physical Plant Maintenance



## Ozark Campus Faculty

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

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

Tekla Barr, 1990  
English and Business Technology Instructor  
B.S., University of the Ozarks, 1980

[Top](#)

[Top](#)

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

Jody Chrisman, 1987  
Industrial Control Systems Instructor  
Electronics Technology, Arkansas Tech University - Ozark Campus, 1982

[Top](#)

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

[Top](#)

Judy Davis, 1991  
GED/ABE Instructor  
B.S., University of Arkansas, 1969

Theresa Fontaine, 2007  
Practical Nursing Instructor  
B.S., University of Central Arkansas, 1991;  
A.A.S., Parkland College, 1999;  
B.S.N., Arkansas Tech University, 2003

[Top](#)

Cathy Fultz, 1991  
Cosmetology Instructor  
Cosmetology, Arkansas Tech University - Ozark Campus, 1970  
Cosmetology Instructor Training, Arkansas Tech University - Ozark Campus, 1989

Leann Goines, 2009  
Physical Therapist Assistant Instructor/Academic Coordinator of Clinical Education  
A.A.S., Northwest Arkansas Community College, 1993

[Top](#)

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

[Top](#)

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

[Top](#)

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

M.Ed Education, Arkansas Tech University, 2009

[Top](#)

Ester Leonard, 2004

Practical Nursing Instructor

Licensed Practical Nursing, Arkansas Tech University - Ozark Campus, 1985;

A.A.S., University of Arkansas - Fort Smith, 1995

B.S.N., Arkansas Tech University, 2008

Bobbie Lewis, 2007

Practical Nursing Clinical Instructor

Practical Nursing, Arkansas Tech University - Ozark Campus, 2002

HEATHER LOYD, 2009

Practical Nursing Instructor

A.A.S., Carl Albert State College, 2006

Christy Mccollough, 2006

GED/ABE Instructor

B.A., Arkansas Tech University, 2000

[Top](#)

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;

A.A.S., Arkansas Tech University, 2009

[Top](#)

Ritchie Powers, 2007

EMT/Paramedic Instructor

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

B.S., Arkansas Tech University, 2006

[Top](#)

Kale Rudolph, 2007

Computer Information Systems Instructor

B.S., University of Arkansas, 1987;

M.S., Arkansas Tech University, 2007

[Top](#)

RIC SALAZAR, 2009

Practical Nursing Instructor

B.S.M.T., Southwestern University, 1990;

A.A.S., University of Arkansas-Fort Smith, 2004;

B.S.N., Oklahoma Wesleyan University, 2009

[Top](#)

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

Vicky Spur, 2001

GED/ABE Instructor

B.A., Arkansas Tech University, 1990

Tammy Verkamp, 1997

English Instructor

B.A., Arkansas Tech University, 1981;

B.S., Arkansas Tech University, 1997;

M.Ed., Arkansas Tech University, 1999

[Top](#)

Debbie Wofford, 1979

Business Technology Instructor

B.S., University of the Ozarks, 1977;

M.Ed., University of Arkansas, 1989

[Top](#)





## 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  
 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  
Industrial Control Systems  
Industrial Electronic Technology  
Law Enforcement  
Paramedic/Emergency Medical Services  
Practical Nursing  
Viticulture  
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

### Physical Plant

The physical plant of Arkansas Tech University - Ozark Campus includes nine buildings on approximately 26 acres. The Technology and Academic Support Building houses classrooms, the Library, administrative offices, Business and Industry, and the Student Success Lab. Other buildings on campus are: Air Conditioning and Refrigeration, Allied Health Building, Collegiate Center, Industrial Control Systems, Student Services and Conference Center, and the West Annex. The Booneville Training Site located in Booneville, Arkansas is also a part of the Ozark Campus facilities. All buildings are handicapped accessible. The cleaning and maintenance of all buildings and property is under the direction of the Physical Plant supervisor.

### Inclement Weather Policy

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.:

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

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.

### Severe Weather Policy

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



## Fees and Expenses

### General

Tuition and all other fees and charges are due prior to the beginning of each term and payable in the Office of Student Accounts. 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 Office of Student Accounts 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 Office of Student Accounts by presenting a photo ID.

### Fees and Expenses

Prices quoted are rates currently in place for the 2010 -2011 academic year. The University reserves the right to change fees and charges at any time if conditions necessitate or permit the change.

Ozark Fees and Expenses	Technical	Undergraduate (General Education)
Tuition	\$70.00 per credit hour	\$170.00 per credit hour
Instructional Support Fee	\$2.00 per credit hour	\$4.00 per credit hour
Strategic Facilities Init. Fee		\$10.00 per credit hour
Student Support Fee	\$5.00 per credit hour	
Technology Fee*	\$5.00 per credit hour	\$5.00 per credit hour

\*If pursuing a technical degree on the Ozark Campus

Replacement of ID Card \$ 25.00

Parking Permit \$ 15.00

All students are required to have parking permits.

For information on Parking Fees and Fines, see "Traffic Regulations".

### 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 Student Services and Conference Center. 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.atu.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. Effective Summer I, 2008 term, monthly billing statements will be electronic. Notification and information for access will be provided to students via the individual student e-mail address and online at <http://stuacct.s.atu.edu>. Students are responsible for accessing billing statements and printing a paper copy if desired. Paper copies will not be mailed. Payment is due upon notification.

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", 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", 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 Student Accounts.

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", 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", 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.



## 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.

### Academic Dishonesty

In addition to taking reasonable steps to discourage cheating, the faculty must accept a responsibility to clarify and interpret for the students matters of dishonesty, such as cheating, 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 Misconduct

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 Campus Safety Officer for appropriate action through regular institution's disciplinary channels.

### Academic Probation

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 Suspension

Suspension will be automatic for sophomore, junior and senior students who in a probationary semester fail to achieve a 1.75 semester grade point: or who fail to remove themselves from probation within three successive full semesters. Students may combine summer term grades at Arkansas Tech University - Ozark Campus with those of the spring semester immediately preceding in order to establish eligibility for retention.

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.

### Adding/Dropping Courses

The deadline for adding courses or changing courses or sections is given in the academic calendar (see "[Academic Calendar](#)"); thereafter, changing to audit or dropping a course are the only changes permissible. Courses officially dropped after the 11th class day and through the thirteenth week of a fall or spring semester will be recorded 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](#)").

### 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 Class Standing 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.

## Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords student's certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the Registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the students of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request that the student's education records that the student believes are inaccurate or misleading be amended.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits 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  
Directory Information

"Directory information" at Arkansas Tech University - Ozark Campus consists of the student's name, address, telephone listing, electronic mail address, dates of attendance<sup>1</sup>, 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.

<sup>1</sup>Dates 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, 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

### AUTHORITY

In accordance with A.C.A. 25-17-307, the Board of Trustees of Arkansas Tech University establishes the following rules and regulations for the registration, operation, and parking of motor vehicles on Arkansas Tech University campuses. These rules and regulations are binding on all members of the faculty, staff, student body and others utilizing the lands owned or controlled by Arkansas Tech University. Lands owned or controlled by Tech will henceforth be known as the CAMPUS for the purposes of clarification in this brochure.

Arkansas Tech Department of Public Safety officers are constituted peace officers by A.C.A. 25-17-305, by action of the Board of Trustees, and under the laws of this state possess all the authority provided by law for city police and county sheriffs to be exercised as required for the safety and protection of the University community. Enforcement of traffic regulations on the Tech campus is the responsibility of the Department of Public Safety. All drivers will observe and obey the orders of the Department of Public Safety officers while such officers are engaged in the performance of their respective duties. This includes producing and rendering identification and hangtags requested.

**YOU ARE RESPONSIBLE FOR COMPLYING WITH ALL RULES AND REGULATIONS.**

### REGISTRATION OF VEHICLES

Registration shall be accomplished at the time of regular registration for the fall, spring or summer semesters at the Office of Student Services or at locations and times specified.

Only hangtag may be registered per person and only one vehicle per person shall be parked on campus.

Vehicles are defined as any self-propelled vehicle having two or more wheels.

All vehicles on Tech campuses are required to register and display a current parking hangtag.

Hangtags are valid from August 15 one year through August 15 of the next year. After securing a hangtag at the Office of Student Services, charges are assessed to the individual's account at the Office of Student Accounts.

Hangtags must be displayed by hanging on the rear view mirror so the number can be read through the front windshield from the outside. These hangtags can be moved from vehicle to vehicle. Do not tape hangtag on vehicle or lay on dash or seat.

Lost/stolen hangtags are full price for replacement.

Summer term hangtags will be one-half the original cost.

Hangtags are the responsibility of the purchaser and must be removed prior to sale or transfer of the vehicle or upon termination of employment or withdrawal from the university.

Falsifying registration information, such as buying hangtags for another person in his/her name will be fined \$ 20.00. Also, the person who allows another individual to purchase a hangtag for him/her will be fined \$20.00.

Charges will be assessed at the time of registration of the vehicle as follows for all faculty, staff and students and other non-Tech employees.

A. \$15.00 for the calendar year (August 15 through August 15)

B. \$15.00 from the beginning of the second semester through August 15

Hangtags fees are non-refundable

Temporary Hangtags are available at the Department of Public Safety for faculty, staff and students who have misplaced their hangtag. These hangtags are provided at no cost and are valid for a maximum of seven days.

### RESTRICTED PARKING AREAS

YELLOW CURBS RESTRICTED PARKING at all times.

FIRE ZONES-As marked.

RED-No students or ineligible employees between 7:30 a.m. and 5 p.m. Monday through Friday.

BLUE/WHITE-Designated disability parking zones. This includes ramps as well as parking spaces.

SIGNS-Restricted by signs posted.

ANY ATHLETIC OR DRILL FIELD-No parking at any time. these will not be posted. Arkansas Tech University reserves the right to



set aside areas as necessary for special events in all parking areas of the University. The University further reserves the right to temporarily block certain streets as necessary without notice to the public.

#### TOWING AND IMPOUNDING OF VEHICLES

The University reserves the right to immobilize, tow and/or impound any vehicle that is parked on University property in such a way as to constitute a serious hazard; or any vehicle owned by a violator having three or more violations in any academic year. The Department of Public Safety may direct an authorized commercial garage to carry out any towing action. Violators will be responsible for paying all costs for removal, impounding and storage of such vehicles. Vehicles may be held until all charges are paid.

#### PAYMENT OF VIOLATIONS/FINES

A person receiving notice of a parking or traffic violation should go to the Office of Student Services to pay the fine placed against his/her account. The office is closed Saturdays, Sundays and holidays. Check the PARKING AND TRAFFIC REGULATIONS for a listing of all fines for violations.

#### MOVING VIOLATIONS

Moving violations include all traffic laws as stated in the Arkansas Motor Vehicle and Traffic laws and State Highway Commission Regulations. The official Tech parking citation notice placed on vehicles will be sufficient as summons for violation of these rules and regulations. In lieu of a University citation, the violator may be issued an Additional violation. Rules are as follows:

Speed limit on campus is 20 mph unless otherwise posted.

No U-turns

Yield the right-of-way to all pedestrians in campus crosswalks.

#### ACCIDENTS

All traffic accidents occurring on the campus or grounds controlled by the University must be reported immediately to the Department of Public Safety by calling on campus 479-508-3359. If you are unable to contact anyone at that number, call 911 and your call will be directed to the nearest Law Enforcement Agency.

#### DISABILITY PARKING

As required, a number of parking spaces have been set aside for use by handicapped individuals only. Each space has been marked with signs and or blue and white paint on the space.

Only individuals who have been issued, and are displaying, a disability license plate or placard issued by the State of Arkansas are permitted to park in spaces marked with blue and white stripes. Vehicles must also have valid Tech hangtag. License plates, decals and placards may be obtained from the State Revenue Office. Transfer of a disability license or placard is a violation of the Arkansas state law. The offender will be ticketed accordingly.

#### SPECIAL EVENT PARKING

Contact the person in charge of facilities use at 479-667-2117

#### VISITOR PARKING

Visitors are always welcome on campus and may park in any non-restricted area. Currently enrolled students or employees are not considered visitors. Visitors, please secure a visitor's hangtag at no cost at the Department of Public Safety.

**MOTORCYCLES AND MOTORBIKE** Motorbikes, motor scooters, motorcycles and bicycles must be operated only on streets normally designated for auto-mobile use. A hangtag must be displayed if parked on campus or an optional decal may be affixed to the left front fork.

#### APPEALS

All appeals will be dealt with according to the rules and regulations stated in this booklet. All appeals must be made within three school days. Appeals made after three school days will not be considered. All faculty, staff and students appeals should follow the above procedures. Appeals forms are available at Department of Public Safety.

#### PARKING REGULATIONS

All parking regulations will be enforced 7 days a week, 24 hours a day.

1. The responsibility for finding a legal parking space rests with the vehicle operator.
2. Lack of space is not a valid excuse for violating a parking regulation.
3. Standard parking/traffic regulations and definitions, as enacted in the Arkansas Motor Vehicle and Traffic Laws and State Highway Commission Regulations will be rigidly enforced on the Tech campus at all times, including legal holidays and the time between semesters when classes are not in session.
4. Violators of established Parking and Traffic Regulations may be issued a Uniform Traffic Ticket payable in Municipal Court in Ozark, Arkansas, in lieu of Tech citation.
5. Violation notices will be affixed to the motor vehicle or presented to the driver. Payment may be either mailed or paid in person at the Office of Student Services.
6. Vehicles are considered parked when left standing, stopped or unattended for any period of time.
7. It is illegal to re-use a ticket.
8. Pedestrians have the right-of-way at designated crosswalks at all times except at signal-controlled intersections where pedestrians will be expected to comply with the signal.
9. Students, faculty and staff members are expected to be familiar with and abide by the regulations at all times. The fact that any vehicle does not receive a violation notice while his/her vehicle is parked or operated in violation of any regulation or law does not mean or imply that such a regulation or law is invalid.
10. Due to evolving changes, signage will supercede zones as marked on the map.
11. Vehicles are assumed abandoned if left parked and stationary for a period of two weeks. Such vehicles will be towed at the owner's expense.
12. School buses and other large vehicles, as well as special purpose vehicles, are required to park in areas designated by the Department of Public Safety.
13. You are responsible for all violations by a vehicle displaying a hangtag issued in your name. If you lend your car, proper operation of the vehicle is still your responsibility.
14. Only one type of Tech hangtag is to be displayed on a vehicle at a time.
15. Obey regulatory signs and barricades established by the Department of Public Safety.
16. Vehicles will not be operated on the Tech campus without required safety equipment prescribed by the vehicle code of the State

of Arkansas.

17. Vehicles parked in parallel parking spaces must be parked with the passengers' door to the curb with flow of traffic.
18. Vehicles will be parked within designated parking boundaries and in no case shall they overlap into or onto roadway, crosswalk or sidewalk. The fact that other vehicles are parked improperly shall not constitute an excuse for parking with any part of the vehicle over the line.
19. The time limit on 15 minute zones will be observed at all times.
20. A traffic ticket or any other communication from a Department of Public Safety officer, while in the performance of his duties, is considered to be an official University notice. Failure to respond will make the recipient subject to disciplinary action.
21. If a hangtag is not visible to the officer while his is issuing a citation, the citation will be for no current hangtag. If, in the course of issuing a citation, the officer discovers the hangtag, he has the discretion to downgrade that ticket to improper display only.
22. Windshields, side wings, side or rear windows may not be obstructed with any sign, sunshield, sun visor, poster or other transparent material other than a certificate or sticker required by state law or campus regulations. This will include writing on vehicle windows with shoe polish.
23. No boats, campers or trailers allowed to park on campus.

**GENERAL INFORMATION**

1. Operating a motor vehicle in any manner which may create a disturbance on campus may be considered a traffic violation. This includes excessive use (determined by city ordinance or officer's discretion) of boom box, stereo, horn, illegal exhaust systems, squealing of tires or placing pedestrians or other drivers in a hazardous situation.
2. All personnel, including visitors, are expected to adhere to all campus and state regulations regarding safety procedures.
3. Arkansas Tech University cannot and does not assume the obligation of providing parking spaces for all vehicles at all times.
4. Arkansas Tech University does not assume responsibility for the care and protection of any vehicle or its contents while said vehicle is operated or parked on the campus or lands controlled by the University.
5. Vehicles that do not qualify for registration or "approved as safe" by the State of Arkansas are not permitted on the campus at any time. Disabled and abandoned vehicles will be turned over to the State Police for disposal according to law.
6. Mechanical work other than minor repairs such as replacement of vehicle battery or flat tires will not be permitted on the Tech campus. Exception will be given to students working under the direction of the Automotive Service Department.
7. Arkansas Tech University reserves the right to restrict or revoke the use of an automobile on campus to anyone if the use of that vehicle is thought to be detrimental to the academic achievement of any student or if the person has abused the privilege of operating said vehicle on or off campus.
8. It shall be the responsibility of any driver of a disabled vehicle (i.e. dead battery, out of gas, keys locked in car, etc.) to immediately notify the Department of Public Safety of the problem and location of the disabled vehicle. Failure to make notification may result in the vehicle's being either towed or given a ticket. Abandoned vehicles shall be towed at the owners expense.
9. Flagrant disregard of campus parking and traffic regulations will result in the vehicle being towed to storage and parking privileges on campus revoked. Towing and storage charges will be assessed prior to the release of the vehicle to the owner.

Board of Trustee approval is requested for the following Parking Violations and Fines on the Ozark Campus.

Violation Fine	
Warning.....	\$00.00
Failure to display current hang tag.....	\$20.00
Unauthorized Handicapped Parking.....	\$100.00
Parking Where Prohibited by Signs.....	\$20.00
Parking in and Unauthorized Zone.....	\$20.00
Blocking.....	\$20.00
Failure to Stop or Yield Right of Way.....	\$25.00
Reckless Driving.....	\$50.00
Speeding.....	\$35.00

Any rates or fines contained in this document are subject to change.

**Withdrawals**

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.

**University Policy**

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



## Student Services Operations

### Bookstore

The Arkansas Tech University - Ozark Campus Bookstore is located in the Technology and Academic Support 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 Technology and Academic Support Building, Arkansas Tech University - Ozark Campus, Ozark, AR 72949, and can be contacted through the Office of Student Services at (479) 667-2117.

### 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.

### Scholarship Stacking Policy

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.

## Scholarships

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.

## Chancellor's Scholarship

Scholarships are awarded by semester. Deadlines are: April 15 for the Fall semester and October 15 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. Applications are to be submitted to the Financial Aid Office at the Ozark Campus. Students must reapply each semester for the scholarship.

## Academic Excellence Scholarship

Scholarships are awarded by semester. Deadlines are: April 15 for the Fall semester and October 15 for the Spring semester. Student must have a minimum cumulative grade point average (GPA) of 3.00 and a minimum ACT score of 19 to apply. Applications are to be submitted to the Financial Aid Office at the Ozark campus. Students must reapply each semester for the scholarship.

## Financial Assistance Scholarship

Scholarships are awarded by semester. Deadlines are: April 15 for the Fall semester and October 15 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. Applications are to be submitted to the Financial Aid Office at the Ozark Campus. Students must reapply each semester.

## Academic Standards for Students Receiving Financial Aid Through Federally Funded Programs

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.

## Institutional Academic Suspension

Any student whose name appears on the institutional suspension list will not be eligible to receive aid for their next period of enrollment even if they 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.

## 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.

### Subsequent Credentials

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.

### Required Grade Point Average

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.

### Subsequent Credentials

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

### Withdrawals

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.

### Application for Federal Student Aid

**General** – Students use the Free Application for Federal Student Aid (FAFSA) (File online at [www.fafsa.ed.gov](http://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.**

### Federal Pell Grant

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

Under current guidelines, only students who have never received a bachelor's degree 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.

### Federal Supplemental Educational Opportunity Grant

The purpose of the Supplemental Educational Opportunity Grant (SEOG) is to provide additional funding for students who have exceptional need determined by the FAFSA application. Each grant is awarded according to federal guidelines and is offered on a first come first serve basis.

### Student Employment

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 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. Prospective student employees can visit the website or check job postings located in the Technology and Academic Support building.

### Direct Federal Loans

Students may borrow money to help defray the cost of attendance at postsecondary institutions through the Direct Student Loan program. Federal regulations require a delayed disbursement of thirty days for all first-year, first time borrowers. All students must be enrolled in a minimum of six semester hours to receive loans. Arkansas Tech University - Ozark Campus offers students two loan choices, the Direct Subsidized Loan and the Direct Unsubsidized Loan. A student must complete a FAFSA application to receive these loans. The total borrowed under each program may not exceed the student's yearly maximum under federal regulations.

### Direct Subsidized Loans

The Direct Loan program authorizes loans up to \$3,500 per year undergraduates and all certificate students and \$4,500 for second year students. Under this program a student must have sufficient financial need determined by the FAFSA application to receive a Direct Subsidized Loan. The interest is subsidized on this loan while the student is enrolled in school. Interest rates are fixed, but vary each year. 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.

### Direct Unsubsidized Loans

The student does not have to meet the same financial need to qualify for the Direct Unsubsidized Loan as on the Direct Subsidized Loan. The student must complete a FAFSA application to receive this loan. The interest is not subsidized on this loan while the student is enrolled in school. It starts accruing thirty days after first disbursement. Interest rates are fixed, but vary each year. Repayment of principal and accrued 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.

### Direct PLUS Loans

Parents of students may borrow annually the amount of the student's cost of attendance minus other aid for each child who is enrolled at least halftime and is a dependent undergraduate student. Direct PLUS Loans are limited to parents who do not have an adverse credit history. The Direct PLUS loan has a fixed interest rate with the borrower beginning payment within sixty days of disbursement. All loan checks will be written as co-payable to the parent and the educational institution.

### 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.

### 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.

### American Indian Center

The American Indian Center (AIC) helps to provide financial assistance for students seeking training opportunities. The student must have a Certificate of Degree of Indian Card (CDIB Card) and meet certain financial eligibility requirements. AIC helps students of Cherokee, Choctaw, Chickasaw, Creek and Seminole ancestry. Applications can be requested from the the American Indian Center, 1100 N. University, Suite 143, Little Rock, AR 72207. AIC's telephone number is 1-800-441-4513.

### Veterans Benefits

Arkansas Tech University - Ozark Campus is approved by the State Approving Agency for Veterans training as a school (college, university, etc.) whereby veterans and dependents of deceased or disabled veterans may obtain subsistence pay while working toward a degree. Eligible students should contact the financial aid office at Arkansas Tech University - Ozark Campus to obtain information regarding school attendance under the following programs: 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; Title 32, Chapter 1607, Reserve Educational Assistance Program (REAP); and Title 5, Chapter 33, Post 9/11 Veterans Educational Assistance Act.

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. Only specific courses in the student's major can be certified to Veterans Affairs (VA) on the student's behalf. Veterans may be given placement credit for prior military training. Enrollment certification will not be sent to the VA until the student has been admitted into the university and has completed a certification request form.

### Arkansas Human Development Corporation

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, an independent 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. Contact telephone number 479-783-1854.

### Arkansas Rehabilitation Services

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.

### American Opportunity, Hope and Lifetime Learning Credits

Students may qualify for the American Opportunity Credit and a Hope Scholarship Credit or Lifetime Learning Credit on the Federal Income Tax return. Students are mailed a 1098T form each year from the student accounts office. Qualified tuition and fees, excluding MPI, are the only eligible expenses which may be claimed by a qualified taxpayer. If a student receives financial assistance to pay the qualified tuition and fees, the taxpayer is not eligible for the credit.

### Arkansas Department of Higher Education

The Arkansas Department of Higher Education has various state scholarships that are available each year for qualified Arkansas students. They administer such programs as the:

- Academic Challenge Scholarship (Lottery)
- Governor's Scholars Program
- Higher Education Opportunity Grant (GO! Grant)
- State Teacher Education Program (STEP)
- Teacher Opportunity Grant (TOP)
- Military Dependents' Scholarship

Applications for these programs are now under a new universal application found online at <http://www.adhe.edu/> The application is titled "YOUiversal Application." You may visit the website or write Arkansas Department of Higher Education, 114 East Capitol, Little Rock, AR 72201 or telephone ADHE at 1-800-547-8839.

### Arkansas Academic

The new Arkansas Lottery will provide funding for the new Arkansas Academic Challenge Scholarship to encourage academically minded traditional and non-traditional students to enroll in Arkansas' colleges and universities and to promote academic degree achievement for Arkansas residents. Arkansas Lottery funds have made it possible to expand the traditional Arkansas Academic

### Challenge Scholarship (Lottery Scholarship Begins Fall 2010)

Challenge Scholarship program to include previously un-served Arkansans known as nontraditional students as well as traditional students.

A nontraditional student is defined as "a student who is not a traditional student." A traditional student is defined as, "a student who will enter postsecondary education as a full-time first-time freshman within twelve (12) months after graduating from high school and remains continuously enrolled as a full-time student. Near-completers in college, delayed starters, returning students, and earn-in students will now be able to apply for the Arkansas Academic Challenge Scholarship. This opens the door for GED completers once they have attended a full time semester of college and have maintained a 2.5 overall GPA, where as before, were not eligible.

The scholarship provides awards to students based on the postsecondary institution's degree award level. For 2010-2011, the annual award amount will be \$5,000 for 4 year institutions and the award amount for a 2 year institution will be \$2,500. Arkansas Tech University - Ozark Campus students will be awarded at the 2 year annual award amount of \$2,500. These amounts are subject to change pending changes in the Arkansas Lottery program.

For all rules and regulations regarding the new Arkansas Academic Challenge Scholarship, visit the Arkansas Department of higher Education's web site at: <http://adhe.edu/>.

The Arkansas Department of Higher Education has a new "YOUiversal" application online for students to apply for the Arkansas Academic Challenge Scholarship and for various other scholarships.

### Activities and Organizations

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.

### Arkansas LPN Association

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 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 Skills USA 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.

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## Curricula

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

<b>Associate of Applied Science in Allied Health</b>	
EMTP	Paramedic/Emergency Medical Services
LPN	Practical Nursing
CNA	Certified Nursing Assistant (Certificate of Proficiency only)
<b>Associate of Applied Science in Business</b>	
BUS	Business Technology Business Technology - Banking option Business Technology - Medical
<b>Associate of Applied Science in General Technology</b>	
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
TMAT	Mathematics
VIN	Viticulture / Enology
WLD	Welding Technology
<b>Associate of Arts</b>	
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
<b>Associate of Applied Science in Physical Therapist Assistant</b>	
PTA	Physical Therapist Assistant
<b>Associate of Applied Science in Industrial Systems</b>	
ICS	Industrial Control Systems
ACR	Air Conditioning/Refrigeration
CIS	Computer Information Systems
WELD	Welding Technology

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## 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 [atuozark@atu.edu](mailto:atuozark@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 are assigned a permanent, randomly generated, student identification number, known as a "T" number. Students' 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.
  - 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-1 may enroll in college-level English courses. For students who take the COMPASS, those scoring 75 or above on the writing section may enroll in college-level English courses. Students not meeting the standard must successfully complete a developmental program.

**Reading** – Students scoring 19 or above on the reading section of the ACT, 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.

## Former Students

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

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 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 an official high school transcript and must request current transferable ACT, SAT, or COMPASS scores be sent to the University. ACT, SAT, or COMPASS scores will not be required if the English and mathematics general education requirements have been satisfied with grades of "C" or better.

In the event that receipt of a student's transcript is unavoidably delayed, as may frequently occur at midyear, a transfer student may be admitted provisionally pending receipt of the transcript, but the University reserves the right to require immediate withdrawal if the transfer transcript does not meet admission requirements. Students should be aware that receipt of official transcripts is required for transfer work to be articulated and to comply with scholarship application deadlines.

### 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 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 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

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. 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.

## High School University Admissions

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. Concurrent students must reapply each fall semester for the school year. Students not attending in fall will apply for the semester in which they attend.

## Testing for Admissions and Placement

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. Information about the COMPASS can be obtained by calling (479) 667-2117.

## Academic Advising and Selecting a Major Field of Study

Arkansas Tech University - Ozark Campus encourages students to meet with an academic advisor for help in selecting a major. The Ozark Campus Academic Advisor works closely with faculty in order to provide assistance to our students. The Academic Advisor is available to discuss major areas of interest, assist in planning for registration, and maintain a degree checklist of requirements to complete for graduation. While an academic advisor can guide the student, it is the student's responsibility to take an active role in their educational process by knowing what courses are required complying; with requirements for graduation application, and degree audit; and gaining a general knowledge of requirements to complete their program successfully.

## Undecided Study

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](#)"). Students enrolling as "undecided" majors will be assigned to the Office of Student Services. The Office of Student Services is located in the Student Services and Conference Center and can be contacted by calling (479) 667-3433. Students 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

Procedures for registration are available on the university Web site at <http://atu.edu/ozark>. Prior to enrollment, students, in consultation with an academic advisor, will 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 courses 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.

## Student Retention and Graduation Rates

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

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## 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; physical therapist assistant; industrial systems technology; general technology with major areas of emphasis in air conditioning and refrigeration, automotive service, 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 electronics technology, 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.

### Degree Audit and Application for Graduation

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.

### Financial Obligation

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

### 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. This degree is available through the Arkansas Tech University main campus. 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 <sup>1</sup>	37
Electives	25
<b>Total</b>	<b>62</b>

<sup>1</sup>See "[General Education Requirements](#)"

**General Education Requirements**

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

- Communicate effectively
- Think critically
- Develop ethical perspectives
- Apply scientific and quantitative reasoning
- Demonstrate knowledge of the arts and humanities
- Understand wellness concepts

To accomplish the above goals, Arkansas Tech requires the completion of the following general education curriculum. Students should refer to the curriculum in their major area of study for specific courses either recommended or required by the academic department to fulfill the general education requirements.

**English – 6 hours**

(See Course Descriptions for minimum grade requirements)

Three hours from one of the following:

[ENGL 1013](#) Composition I

[ENGL 1043](#) Honors Composition I

Three additional hours from one of the following:

ENGL 1023 Composition II  
ENGL 1053 Honors Composition II

**Mathematics – 3 hours**

(See Course Descriptions for minimum grade requirements)

Three hours from one of the following:

MATH 1003 College Mathematics  
MATH 1113 College Algebra  
Any higher level mathematics course

**Science – 8 hours**

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

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

### State Minimum Core

The courses that comprise Tech's general education curriculum also constitute the University's State Minimum Core, established in accordance with Act 98 of 1989, for implementation the fall semester of 1991. Act 98 requires colleges and universities to identify "a minimum core of courses which shall apply toward the general education core curriculum requirements for baccalaureate degrees at state supported institutions of higher education and which shall be fully transferable between state institutions."

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## Adult Education

### Program Coordinator

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.

### Mission Statement

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.

### General Information

The Arkansas Tech University – Ozark Campus Adult Education is fully approved and funded by Arkansas Career Education and the Adult Education Section.

### Program Options

**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



## Air Conditioning and Refrigeration

Program Chair  
 Kenneth Beeler  
 Air Conditioning  
 Bldg  
 (479) 508-3333  
 kbeeler@atu.edu

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 need for air conditioning and refrigeration service technicians will continue to expand with the growth of computer applications into the industrial fields. This program also places emphasis on Green Technology initiatives and incorporates an emphasis on PV arrays and wind turbines.

Arkansas Tech University-Ozark Campus offers a technical certificate in air conditioning and refrigeration (36 hours) and an associate of applied science in general technology with an option in air conditioning and refrigeration (60 hours) in a completely equipped shop. Students are required to take the EPA Certification Test. Industry competency exams such as The NATE exam and the HVAC excellence exams are available to the student prior to graduation.

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.

Air Conditioning  
 and  
 Refrigeration

### Curriculum in Air Conditioning/Refrigeration Technical Certificate

Course Number	Course Name	Semester Hours
<b>Fall</b>		
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 ENGL 0303 ENGL 1013	Business English or Foundational Composition or Composition I	3
BUS 1023 MATH 0803	Business Mathematics or Beginning Algebra (or higher math)	3
	<b>Total</b>	<b>17</b>
<b>Spring</b>		
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
	<b>Total</b>	<b>13</b>
<b>1st Summer</b>		
ACR 2112	Air Conditioning Service	2
ACR 2904	Internship (or approved elective)	4
	<b>Total</b>	<b>6</b>

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

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		

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
<b>2nd Semester</b>		
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
<b>3rd Semester</b>		
	Any Approved Social Science <sup>1</sup>	3
ACR 2112	Air Conditioning Service*	2
ACR 2134	Boiler Operations	4
COMS 1003	Introduction to Computer Based Systems or Microcomputer Application or Introduction to Computers	3
COMS 2003		
BUS 1303		
	Total	12
<b>4th Semester</b>		
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
	<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements". *Usually offered Summer I term	

Facilities  
Maintenance  
Option

Curriculum in Air Conditioning/Refrigeration Facilities Maintenance Option Technical Certificate

Course Number	Course Name	Semester Hours
<b>Fall</b>		
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 Foundational Composition or Composition I	3
ENGL 0303		
ENGL 1013		
WLD 1302	Metallurgy	2
	Total	16
<b>Spring</b>		
ACR 1222	Industrial Controls	2
ACR 1503	Electronic Components	3
ACR 1602	Schematics	2
BUS 1023	Business Mathematics or Beginning Algebra (or higher math)	3
MATH 0803		

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	or Programmable Controllers	5
BUS 2143	Introduction to Management	3
COMS 1003	Introduction to Computer Based Systems	3
COMS 2003	or Microcomputer Applications	
BUS 1303	or 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 <sup>1</sup>	3
ACR 2904	Internship*	4
ENGL 1023	Composition II	3
FAC 2222	Grounds Maintenance (or approved electives)	2
WLD 1403	Welding for Trades and Industry	3
	Total	15
	<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements". (Suggested approved electives include: AST 1004, BUS 1073, CRT 1124, ICS 1104, and ICS 1303) *Usually offered in Summer I term	

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## Automotive Service Technology

Program Chair  
Bobby Sewell  
Shop Complex  
(479) 508-3311  
bswell@atu.edu

Instructor  
Brian Bass

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.

Automotive  
Service  
Technology

### Curriculum in Automotive Service Technology Technical Certificate

Course Number	Course Name	Semester Hours
<b>Fall</b>		
AST 1003	Automotive Electronics	3
AST 1004	Gasoline Engine Theory	4
AST 1103	Automotive Brake Systems	3
AST 1113	Introduction to Automotive Drive Trains	3
BUS 1003 ENGL 0303 ENGL 1013	Business English or Foundational Composition or Composition I	3
	<b>Total</b>	<b>16</b>
<b>Spring</b>		
AST 1005	Engine Performance	5
AST 1213	Automotive Chassis and Steering	3
AST 2103	Advanced Automotive Electronics	3
BUS 1023 MATH 0803	Business Mathematics or Beginning Algebra	3
	<b>Total</b>	<b>14</b>
<b>Summer I</b>		
AST 1203	Automotive Climate Control	3
AST 2203	Diesel Theory	3
	<b>Total</b>	<b>6</b>

### Curriculum in Automotive Service Technology Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
<b>Fall</b>		
AST 1003	Automotive Electronics	3
AST 1004	Gasoline Engine Theory	4
AST 1103	Automotive Brake Systems	3
AST 1113	Introduction to Automotive Drive Trains	3
ENGL 1013	Composition I	3
	<b>Total</b>	<b>16</b>

Spring		
AST 1005	Engine Performance	5
AST 1213	Automotive Chassis and Steering	3
AST 2103	Advanced Automotive Electronics	3
MATH 0903	Intermediate Algebra (or higher math)	3
	Total	14
Summer I		
AST 1203	Automotive Climate Control	3
AST 2203	Diesel Theory	3
	Total	6
Fall		
AST 1223	Advanced Automotive Drive Trains	3
AST 2113	Advanced Engine Performance	3
ENGL 1023	Composition II	3
WLD 1403	Welding for Trades & Industry	3
	Total	12
Spring		
	Any Approved Social Science	3
AST 2903	Internship (or approved elective)	3
AST 2993	Special Topics	3
COMS 1003	Introduction to Computer Based Systems or	3
COMS 2003	Microcomputer Applications or	
BUS 1303	Introduction to Computers	
	Total	12



## Business and Industry

Program  
Coordinator  
Ken Warden

### 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 Cardiac 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)



## Business Technology

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

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.

### Business Technology

#### Curriculum in Business Technology Technical Certificate

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
BUS 0903	Keyboarding w/ Lab	3
BUS 1003 ENGL 0303 ENGL 1013	Business English or Foundational Composition or Composition I	3
BUS 1023 MATH 0803	Business Mathematics or Beginning Algebra (or higher math)	3
BUS 1073	Accounting	3
BUS 1303	Introduction to Computers	3
	<b>Total</b>	<b>15</b>
<b>2nd Semester</b>		
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
	<b>Total</b>	<b>15</b>
<b>3rd Semester</b>		
BUS 2113	Word Processing II	3
BUS 2123	Computer Applications for Accounting	3
	<b>Total</b>	<b>6</b>

### Business Technology Option Associate of Applied Science

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

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		

BUS 1013	Word Processing I	3
BUS 1073	Accounting	3
COMS 1003	Introduction to Computer Based Systems	3
COMS 2003	or Microcomputer Applications	
BUS 1303	or Introduction to Computers	
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra (or higher math)	3
	Total	15
<b>2nd Semester</b>		
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
<b>3rd Semester</b>		
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
<b>4th Semester</b>		
	Any Approved Social Science <sup>1</sup>	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
	<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements".	

Business  
Technology  
Banking

### Curriculum in Business Technology - Banking Technical Certificate

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
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
<b>2nd Semester</b>		
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
<b>3rd Semester</b>		
BUS 1073	Accounting	3

BUS 1043	Professional Communication	3
	Total	6

Business  
Technology  
Banking Option  
Associate of  
Applied Science

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

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
BUS 1073	Accounting	3
BUS 2303	Money and Banking	3
BUS 2313	Deposit Operations	3
BUS 1303 or COMS 1003 or COMS 2003	Introduction to Computers or Introduction to Computer Based Systems or Microcomputer Applications	3
ENGL 1013	Composition I	3
	Total	15
<b>2nd Semester</b>		
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
<b>3rd Semester</b>		
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
<b>4th Semester</b>		
	Any Approved Social Science <sup>1</sup>	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
	<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements"	

Business  
Technology  
Medical  
Transcription

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

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
BUS 1003 or ENGL 0303 or ENGL 1013	Business English or Foundational Composition or Composition I	3
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 <sup>1</sup>	3
BUS 2273	or Medical Transcription II <sup>1</sup>	
	Total	6
	<sup>1</sup> Students may choose to take either BUS 2273 Machine Transcription II or BUS 2263 Medical Coding II.	

Business  
Technology  
Medical Option  
Associate of  
Applied Science

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

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	or Microcomputer Applications	
BUS 1303	or 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 <sup>1</sup>	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. <sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements"	

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## 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 guidelines and state priority goals.

### 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	\$36,425
3	\$45,775
4	\$55,125
5	\$64,475
6	\$73,825
7	\$83,175
8	\$92,525
For each additional person, add \$9,350	

### Location:

Student Services and Conference Center  
Arkansas Tech University – Ozark Campus, Rooms 110 and 111  
1700 Helberg Lane  
Ozark, AR 72949  
479 667-0695



## Collision Repair Technology

Program Chair  
Stan Hatcher  
Shop Complex  
(479) 508-3312  
shatcher@atu.edu

Instructor  
Kendall Hopkins

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. Students will receive instruction in solvent-based paints and in the implementation of green technology with water-borne paints.

Each student will be required to furnish their own tools as approved by the instructor.

### Collision Repair Technology

#### Curriculum in Collision Repair Technology Technical Certificate

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

#### Curriculum in Collision Repair Technology Associate of Applied Science Degree in Business Technology

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
CRT 1103	Automotive Welding	3
CRT 1114	Metal Repair I	4
CRT 1124	Painting I	4
CRT 1134	Color Matching I	4
	<b>Total</b>	<b>15</b>
<b>2nd Semester</b>		
CRT 1214	Metal Repair II	4
CRT 1224	Painting II	4

CRT 1234	Color Matching II	4
ENGL 1013	Composition I	3
	Total	15
<b>3rd Semester</b>		
	Any Approved Social Science <sup>1</sup>	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
<b>4th Semester</b>		
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	3
COMS 1003	or Introduction to Computer Based Systems	
COMS 2003	or Microcomputer Applications	
	Total	15
	<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements" *Usually offered in Summer I term	

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## Computer Information Systems

Program Chair  
Kale Rudolph  
Administration  
Bldg  
(479) 508-3323  
brudolph@atu.edu

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. This program of study prepares students to sit for the A+ Certification exam.

Computer  
Information  
Systems

### Curriculum in Computer Information Systems Technical Certificate

Course Number	Course Name	Semester Hours
<b>Fall</b>		
BUS 1023 or MATH 0803	Business Mathematics or Beginning Algebra (or higher math)	3
BUS 1303 or COMS 1003 or COMS 2003	Introduction to Computers or Microcomputer Applications or Introduction to Computer Based Systems	3
CIS 1113	Fundamentals of Computer Operation	3
CIS 1153	Networking I	3
CIS 1213	Operating Systems	3
	<b>Total</b>	<b>15</b>
<b>Spring</b>		
BUS 1003 or ENGL 0303 or ENGL 1013	Business English or Foundational Composition or Composition I	3
CIS 1103	Programming I	3
CIS 1253	Networking II	3
CIS 1243	HTML	3
CIS 1303	PC Maintenance	3
	<b>Total</b>	<b>15</b>
<b>Summer I</b>		
	Approved Elective Credit	6
	<b>Total</b>	<b>6</b>

Approved electives include (but are not limited to): BUS 2153 Database Management, any additional CIS course, any ICS course. Electives must be approved by the program director.

### Curriculum in Computer Information Systems Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
<b>Fall</b>		
MATH 1113	College Algebra	3
BUS 1303 or	Introduction to Computers or	

COMS 1003 or COMS 2003	Microcomputer Applications or Introduction to Computer Based Systems	3
CIS 1113	Fundamentals of Computer Operation	3
CIS 1153	Networking I	3
CIS 1213	Operating Systems	3
	Total	15
<b>Spring</b>		
ENGL 1013	Composition I	3
CIS 1103	Programming I	3
CIS 1253	Networking II	3
CIS 1243	HTML	3
CIS 1303	PC Maintenance	3
	Total	15
<b>Summer I</b>		
	Approved Elective Credit	6
	Total	6
<b>Fall</b>		
ENGL 1023	Composition II	3
CIS 2133	Web Page Design	3
CIS 1203	Programming II	3
	Approved Elective	3
	Total	12
<b>Spring</b>		
	Any Approved Social Science	3
CIS 2143	Help Desk Support	3
CIS 2153	Programming in C++	3
CIS 1233	Systems Analysis and Design	3
	Total	12

Approved electives include (but are not limited to): BUS 2153 Database Management, any additional CIS course, any ICS course. Electives must be approved by the program director.



## Cosmetology

Program Chair  
Cathy Fultz  
Administration  
Bldg  
(479) 508-3320  
cfultz@atu.edu

Instructor  
Debbie Neumeier

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 Health Department Cosmetology Division 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.

### Cosmetology

#### Curriculum in Cosmetology Technical Certificate

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
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
	<b>Total</b>	<b>15</b>
<b>2nd Semester</b>		
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
	<b>Total</b>	<b>14</b>
<b>Summer Term</b>		
COS 1231	Manicuring II	1
COS 2405	Theory and Practical Application	5
	<b>Total</b>	<b>6</b>
<b>3rd Semester</b>		
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
	<b>Total</b>	<b>15</b>

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

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		

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
<b>2nd Semester</b>		
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
<b>3rd Semester</b>		
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
<b>4th Semester</b>		
	Any Approved Social Science <sup>1</sup>	3
COMS 1003	Introduction to Computer Based Systems or Microcomputer Applications or Introduction to Computers	3
COMS 2003		
BUS 1303		
COS 2405	Theory and Practical Application*	5
ENGL 1023	Composition II	3
MATH 0903	Intermediate Algebra (or higher math)	3
	Total	17
	<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements" *Usually offered in Summer I term	



## Enology

### Enology

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.

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
BUS 1003 ENGL 0303 ENGL 1013	Business English or Foundational Composition or Composition I	3
BUS 1023 MATH 0903	Business Mathematics or Intermediate Algebra or Higher Math	3
VIN 1463	Introduction to Enology	3
VIN 2103	Introduction to Wine Microorganisms	3
	<b>Total</b>	<b>12</b>
<b>2nd Semester</b>		
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
	<b>Total</b>	<b>15</b>
<b>3rd Semester</b>		
VIN 2463	Intermediate Enology	3
VIN 2592	Cellar Operation Technology	2
VIN 2663	Sensory Evaluation	3
VIN 2573	Fall Wine Production Internship	3
	<b>Total</b>	<b>11</b>





## Industrial Control Systems

Program Chair  
Ron Hutain  
Electronics Bldg  
(479) 508-3328  
rhutain@atu.edu

Instructor  
Jody Chrisman

Industrial Control Systems provides for a study of components, circuits, instruments and control techniques used with Industrial Automated Systems. Students will develop skills sets which enable the integration of: electronics, mechanics, pneumatics, hydraulics and computer controls. 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, this will allow the student to have an understanding of how to repair, upgrade, or network a complete computer system, both hardware and software. The intent of this program is to prepare the student to deal with a broad concept of automation technology. The diverse educational training provides for a host of integrated skills that can be applied in a variety of job contexts to include: green energy technology, electronics, medical, manufacturing, and production.

Industrial Control  
Systems

### Curriculum in Industrial Control Systems Technical Certificate

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
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
<b>2nd Semester</b>		
ICS (CIS) 1253	Networking II	3
ICS (CIS) 1303	PC Maintenance	3
ICS 2203	Computer System Components	3
ICS 2213	Semiconductors	3
	Total	12
<b>3rd Semester</b>		
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
<b>1st Semester</b>		
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
<b>2nd Semester</b>		
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
<b>3rd Semester</b>		
ICS 2116	Basics of Industrial Automation	6
ICS 2115	Programmable Controllers	5
ICS 2123	Industrial Fluid Power	3
	Total	14
<b>4th Semester</b>		
	Any Approved Social Science <sup>1</sup>	3
BUS 1303	Introduction to Computers	3
COMS 1003	Introduction to Computer Based Systems	
COMS 2003	Microcomputer Applications	
ICS 2903	Internship (or approved elective)	3
ENGL 1023	Composition II	3
	Total	12
<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements"		
*Usually offered in Summer I term		

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## Industrial Systems

### 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.

#### Curriculum in Industrial Electronic Technology Technical Certificate

Course Number	Course Name	Semester Hours
<b>Fall</b>		
ICS 1004	Foundationals of Electricity	4
ICS 1123	Semiconductors I	3
ICS 2123	Industrial Fluid Power	3
	Approved Elective Credit	3
	<b>Total</b>	<b>13</b>
<b>Spring</b>		
ICS 2213	Semiconductors II	3
	Approved Elective Credit	2
BUS 1003 or ENGL 0303 or ENGL 1013	Business English or Foundational Composition or Composition I	3
BUS 1023 or MATH 0803	Business Mathematics or Beginning Algebra	3
	<b>Total</b>	<b>11</b>
<b>Summer I</b>		
ICS 1143	Introduction to Digital Logic	3
	Approved Elective Credit	3
	<b>Total</b>	<b>6</b>

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.

#### Curriculum in Industrial Systems Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
<b>Fall</b>		
ICS 1004	Fundamentals of Electricity	4
ICS 1103	Programming I	3
ICS 1123	Semiconductors I	3
ICS 2123	Industrial Fluid Power	3
	Approved Elective Credit	3
	<b>Total</b>	<b>16</b>

Spring		
ICS 1303	PC Maintenance	3
ICS 2213	Semiconductors II	3
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra (or higher math)	3
	Approved Elective Credit	2
	Total	14
Summer I		
ICS 1143	Introduction to Digital Logic	3
	Approved Elective Credit	3
	Total	6
Fall		
ENGL 1023	Composition II	3
ICS 1153	Networking I	3
ICS 2115	Programmable Controllers	5
ICS 2116	Basics of Industrial Automation	6
	Total	17
Spring		
BUS 1303 or COMS 1003 or COMS 2003	Introduction to Computers or Introduction to Computer Based Systems or Microcomputer Applications	3
ICS 1253	Networking II	3
ICS 2203	Computer System Components	3
	Any Approved Social Science	3
	Total	12
Approved electives include but are not limited to: ACR 1205, ACR 1222, ACR 1602, ACR 2114, ACR 2134, ICS 1303, ICS 2303, ICS 2991-6, INT 2903.		



## 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
<b>1st Semester</b>		
BUS 1003 or ENGL 0303 or ENGL 1013	Business English Foundational 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
	<b>Total</b>	<b>15</b>
<b>2nd Semester</b>		
EMTP 1001	CPR and First Aid	1
LE 1023	Judical Process	3
LE 1043	Criminal, Civil, and Juvenile Law	3
LE 1053	Spanish for Law Enforcement	3
	Elective Coursework1	5
	<b>Total</b>	<b>15</b>
<b>3rd Semester</b>		
LE 1033	Public Relations in Law Enforcement	3
	Elective Coursework1	3
	<b>Total</b>	<b>6</b>
	* 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
<b>1st Semester</b>		
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
	<b>Total</b>	<b>15</b>

<b>2nd Semester</b>		
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
	<b>Total</b>	<b>15</b>
<b>3rd Semester</b>		
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
	<b>Total</b>	<b>15</b>
<b>4th Semester</b>		
BUS 2133	Multimedia	3
EMTP 1001	CPR and First Aid	1
LE 2013	Introduction to Computer Crime	3
LE 2903	Internship (or approved elective)	3
	Elective Coursework**	5
	<b>Total</b>	<b>15</b>
	* 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  
Ritchie Powers  
Health Bldg  
(479) 508-3326  
rpowers@atu.edu

Instructor  
Lance  
Greathouse  
Paramedic

This program is designed to meet the educational and training needs of those individuals who wish to gain Arkansas Department of Health Licensure and National Registry of EMT's Certification as a Paramedic. Career opportunities exist with air and ground emergency medical services, fire departments, medical centers and industry. Among other characteristics, a Paramedic should possess dignity, empathy and tolerance. Under the direction of a physician, the student will be presented with a patient to aid them in: assessment of the pre-hospital needs of the acutely ill or injured patient, triage, basic as well as advanced life support, communication skills and maintaining the level of care as the patient is transported to a health care facility.

The student must complete all courses in the previous semester with at least 75% to be eligible for the next level of the Paramedic program. Students must also pass the end of course assessment to be recommended for the National Registry of EMT's exam. Arkansas EMT certification must be obtained by the student prior to enrollment in EMTP 1223 Clinical Practicum I and EMTP 1231 Lab I.

### Curriculum in Emergency Medical Technician Certificate of Proficiency

Course Number	Course Name	Semester Hours
EMTP 1007	Emergency Medical Technician	7
	Total	7

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

### Curriculum in Advanced Emergency Medical Technician Certificate of Proficiency

Course Number	Course Name	Semester Hours
EMTP 1107	Advanced Emergency Medical Technician	7
	Total	7

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

### Curriculum in Paramedic Technical Certificate

Course Number	Course Name	Semester Hours
<b>Prerequisites</b>		
EMTP 1007 or EMTP 1107	Emergency Medical Technician or Advanced Emergency Medical Technician	7
EMTP 1103	Life Span Development	3
EMTP 1113	Pharmacology	3
EMTP 1133	Anatomy and Physiology	3
	Total	16
<b>Summer I</b>		
EMTP 1213	Pre-Hospital Environment	3
EMTP 1223	Clinical Practicum I	3
EMTP 1231	Lab I	1
	Total	7
<b>Fall</b>		
EMTP 1303	Cardiology	3
EMTP 1304	Medical Emergencies I	4
EMTP 1305	Clinical Practicum II	5
EMTP 1331	Lab II	1
	Total	13
<b>Spring</b>		
EMTP 1401	Lab III	1
EMTP 1403	Medical Emergencies II	3

EMTP 1413	Clinical Practicum III	3
EMTP 1423	Paramedic Internship I	3
EMTP 1424	Trauma Management	4
	Total	14
Summer I		
EMTP 1504	Paramedic Internship II	4
EMTP 1512	Assessment Based Management	2
	Total	6

## Curriculum in Paramedic Associate of Applied Science Degree in Allied Health

Course Number	Course Name	Semester Hours
Fall		
BUS 1303 or COMS 1003 or COMS 2003	Introduction to Computers or Introduction to Computer Based Systems or Microcomputer Applications	3
EMTP 1007 or EMTP 1107	Emergency Medical Technician or Advanced Emergency Medical Technician	7
MATH 0903	Intermediate Algebra	3
	TOTAL	13
Spring		
	Any approved Social Science	3
EMTP 1103	Life Span Development	3
EMTP 1113	Pharmacology	3
EMTP 1133	Anatomy and Physiology	3
ENGL 1013	Composition 1	3
	Total	15
Summer I		
EMTP 1213	Pre Hospital Environment	3
EMTP 1223	Clinical Practicum I	3
EMTP 1231	Lab I	1
	Total	7
Fall		
EMTP 1303	Cardiology	3
EMTP 1304	Medical Emergencies I	4
EMTP 1305	Clinical Practicum II	5
EMTP 1331	Lab II	1
ENGL 1023	Composition II	3
	Total	16
Spring		
EMTP 1401	Lab III	1
EMTP 1403	Medical Emergencies II	3
EMTP 1413	Clinical Practicum III	3
EMTP 1423	Paramedic Internship I	3
EMTP 1424	Trauma Management	4
	Total	14
Summer I		
EMTP 1504	Paramedic Internship II	4
EMTP 1512	Assessment Based Management	2
	Total	6





## Physical Therapist Assistant

Program Chair  
Daniel Curtis  
Health Building  
(479) 508-3354  
dcurtis7@atu.edu

Instructor  
Leann Goines

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.

\*The Physical Therapist Assistant Program at Arkansas Tech University-Ozark Campus has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: accreditation@apta.org; website: www.captionline.org). Candidacy for Accreditation is a pre-accreditation status of affiliation with the Commission on Accreditation in Physical Therapy Education that indicates the program is progressing toward accreditation.

### Physical Therapist Assistant

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

Course Number	Course Name	Semester Hours
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
<b>Spring</b>		
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
<b>Summer I</b> (Extended length term to extend through Summer II)		
PTA 1121	Clinical Kinesiology Lab	1
PTA 1122	Clinical Kinesiology	2
PTA 1132	Pathological Conditions	2
PTA 1231	Therapeutic Procedures I Lab	1
PTA 1232	Therapeutic Procedures I	2
PTA 1241	Principles of Physical Therapy Lab	1
PTA 1243	Principles of Physical Therapy	3
PTA 1251	Data Collection in Physical Therapy Lab	1
	Total	13
<b>Fall</b>		
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 2151	Administrative Procedures	1
PTA 2164	Clinical Experience I	4
	Total	16
<b>Spring</b>		
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

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## Practical Nursing

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Instructors  
Theresa Fontaine  
Natalie Helmert  
Ester Leonard

Clinical  
Instructors  
Debra Hines  
Bobbie Lewis

The Practical Nursing program of ATU-Ozark Campus is an entry level 15-month, 3 semester nursing course. Upon completion of the program 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 are required to complete and pass with a passing minimum of 80% the ATI Standardized PN Assessment prior to being certified to make application for the NCLEX.

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. Students who speak English as a second language shall meet the same admission requirements.

### Practical Nursing

Complete the required Pre-requisite course:

**BUS 2213 Intro to Human Anatomy,**

**BUS 2233 Medical Terminology,**

**EMTP 1001 First aid and CPR or hold a current CPR for Health Care Providers certification.**

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/Surgical Conditions.....	90 Hours
Nursing of Mothers and Infants.....	45 Hours
Nursing of Children.....	45 Hours
Mental Health and Care of the Mentally Ill.....	45 Hours
Pharmacology.....	90 Hours
Theory/Clinical Hours.....	600/768 Hours
<b>1368 Total Program Hours</b>	

### 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
	<b>Total</b>	<b>7</b>

### Curriculum in Practical Nursing Technical Certificate



Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
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
	<b>Total</b>	<b>17</b>
<b>2nd Semester</b>		
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
	<b>Total</b>	<b>17</b>
<b>3rd Semester</b>		
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
	<b>Total</b>	<b>19</b>

### 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.

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
Summer Terms (I&II)		
COMS 1003 COMS 2003 BUS 1303	Introduction to Computer Based Systems or Microcomputer Applications or Introduction to Computers	3
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra (or higher math)	3
	<b>Total</b>	<b>9</b>
<b>2nd Semester</b>		
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
	<b>Total</b>	<b>17</b>
<b>2nd Semester</b>		
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
	<b>Total</b>	<b>18</b>
<b>3rd Semester</b>		
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

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## Viticulture

### Viticulture

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

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
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
	<b>Total</b>	<b>16</b>
<b>2nd Semester</b>		
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
	<b>Total</b>	<b>14</b>
<b>3rd Semester</b>		
VIN 2363	Grape Varieties of Mid America (Ark Grapes)	3
VIN 2933	Soils for Viticulture	3
VIN 1152	Summer/Fall Viticulture Technology	2
	<b>Total</b>	<b>8</b>



## Welding Technology

Program Chair  
Corey Danekas  
Shop Complex  
(479) 508-3312  
cdanekas@atu.edu

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.

### Welding Technology

#### Curriculum in Welding Technology Technical Certificate

Course Number	Course Name	Semester Hours
<b>Fall</b>		
BUS 1023 MATH 0803	Business Mathematics or Beginning 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
	<b>Total</b>	<b>16</b>
<b>Spring</b>		
BUS 1003 ENGL 0303 ENGL 1013	Business English or Foundational Composition or Composition I	3
WLD 1405	Position Welding	5
WLD 1503	Gas Metal Arc (MIG) Welding	3
WLD 1603	Gas Tungsten Arc (TIG) Welding	3
	<b>Total</b>	<b>14</b>
<b>1st Summer</b>		
WLD 1702	Weldment Testing	2
WLD 1804	Certification Welding I	4
	<b>Total</b>	<b>6</b>

#### Curriculum in Welding Technology Associate of Applied Science Degree in General Technology

Course Number	Course Name	Semester Hours
<b>1st Semester</b>		
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
	<b>Total</b>	<b>16</b>
<b>2nd Semester</b>		

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
<b>3rd Semester</b>		
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
<b>4th Semester</b>		
	Any Approved Social Science <sup>1</sup>	3
ACR 2124	Sheet Metal	4
COMS 1003	Introduction to Computer Based Systems or Microcomputer Applications or Introduction to Computers	3
COMS 2003		
BUS 1303		
WLD 2904	Internship (or approved elective)	4
	Total	14
	<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements" *Usually offered in Summer I term	

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### **ACR 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.

### **ACR 1203 FUNDAMENTAL 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. CTE General Technology Fee: \$50.

### **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. CTE General Technology Fee: \$20.

### **ACR 1301 INDUSTRIAL SAFETY IN A/C**

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/REFRIG**

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 wiring 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 1803  
RESIDENTIAL SYSTEMS**

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 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 2125  
BOILER OPERATIONS**

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

**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 internship.

**ACR 2991  
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.

**ACR 2992  
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.

**ACR 2993  
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.

**ACR 2994**  
**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.

**ACR 2995**  
**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.

**ACR 2996**  
**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.



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### **AMST 2003 AMERICAN STUDIES**

An exploration of American culture through study of significant ideas, social issues and literary texts. Note: AMST 2003 may be used to fulfill 3 hours of the Social Sciences general education requirements.



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### **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**

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 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 1105 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 1113 INTRO AUTO DRIVETRAINS**

Designed to cover the entire drivetrain on a late model vehicle with a standard transmission. Instruction will begin with the flywheel and proceed 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 1202 INTRO AUTO DRIVETRAINS**

Designed to cover the entire drive train 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  
AUTO 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 1206  
ENGINE PERFORMANCE**

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 1212  
ADV AUTO DRIVETRAINS**

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

**AST 1213  
AUTO CHASSIS/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 AUTO DRIVETRAINS**

Pre-requisite: AST 1113. A continuation of AST 1113. A study of the theory and operation of the entire drivetrain of automotive automatic transmissions and transaxles.

**AST 1904  
INTERNSHIP I**

Provides student 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 internship.

**AST 2103  
ADVANCED AUTO ELECTRONICS**

Prerequisites: AST 1105 and ELT 1222. 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  
ADV ENGINE PERFORMANCE**

Prerequisites: AST 1105, AST 1206, and ELT 1222. 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 2203  
DIESEL THEORY**

Studies the basic principles involved in the construction and operation of diesel engines. Examines fuel, air, cooling, and control systems of various designs. Discusses engine overhaul and repair, includes gauging proper measuring instruments and tools for these tasks. Studies the design, operation, care, and repair of fuel injection systems used on a variety of diesel engines. Emphasizes care and cleanliness in troubleshooting the fuel preheating, starting, generating, and lighting systems. Lecture: 2 hours, laboratory: 1 hour.

**AST 2903  
INTERNSHIP II**

Provides student 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 internship.

**AST 2991  
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.

**AST 2992  
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.

**AST 2993  
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. This course requires 15 clock hours per one semester credit hour.



**AST 2994**  
**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.

**AST 2995**  
**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.

**AST 2996**  
**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.



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### **BUS 0903 KEYBOARDING**

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 course work.)

### **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**

Pre-requisite: BUS 0903 or permission of instructor. 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 ADMIN SUPPORT PROCEDURES**

Prerequisite: BUS 0903 or permission of instructor. 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 PROF 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 ENVIRON/BUSINESS**

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  
INTRO TO ECONOMICS**

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

**BUS 1303  
INTRO 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 APS/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  
INTRO 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: COMS 1003 or BUS 1303 and/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 2173  
SPECIAL TOPICS/BUSINESS**

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.

**BUS 2213  
INTRO 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**

Pre-requisite: BUS 0903. 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 documents from recordings using a microcomputer and transcription machine.

**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  
DIAGNOSTIC (ICD-9-CM) CODING**

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  
PROCEDURAL (CPT) CODING**

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. Includes advanced word and information processing concepts and advanced applications.

**BUS 2283  
HUMAN ANATOMY AND PHYSIOLOGY**

This course is designed to present an indepth 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 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.

**BUS 2991  
SPEC TOPIC/BUSINESS TECHNOLOGY**

This course is designed to introduce students to specific areas in Business 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.

**BUS 2992  
SPEC TOPIC/BUSINESS TECHNOLOGY**

This course is designed to introduce students to specific areas in Business 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.

**BUS 2993  
SPEC TOPIC/BUSINESS TECHNOLOGY**

This course is designed to introduce students to specific areas in Business 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.

**BUS 2994  
SPEC TOPIC/BUSINESS TECHNOLOGY**

This course is designed to introduce students to specific areas in Business 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.

**BUS 2995**  
**SPEC TOPIC/BUSINESS TECHNOLOGY**

This course is designed to introduce students to specific areas in Business 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.

**BUS 2996**  
**SPEC TOPIC/BUSINESS TECHNOLOGY**

This course is designed to introduce students to specific areas in Business 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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### **CRT 1105 BASIC METAL REPAIR**

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 1113 METAL REPAIR I**

The straightening, alignment, and fitting of major panels is taught. Procedures necessary to rough, shrink, bump, and finish are included. Emphasis in this course is on theory and practical application.

### **CRT 1123 BODY FRAME ALIGNMENT I**

Students will receive instruction in the use of frame equipment and frame construction, sectioning, and straightening. Experience working with unitized construction using frame alignment equipment will be provided.

### **CRT 1133 PAINTING I**

This course includes skills and technical knowledge in the preparation of metal for paint; 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 1143 COLOR MATCHING I**

Develop the skills needed to match any type of paint. Summarize color theory; color evaluation; color matching; computer analysis of paint, tinting, and other factors.

### **CRT 1205 BODY AND FRAME ALIGNMENT**

Pre-requisite: CRT 1105. Students will receive instruction in the use of frame equipment and construction, as well as sectioning, and straightening. Experience working with unitized construction using frame alignment equipment will be provided.



**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 1313  
AIR BRUSHING**

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

**CRT 1405  
PAINTING**

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 1505  
COLOR MATCHING**

Pre-requisite: CRT 1405. A continuation of painting with emphasis on spraying techniques and tinting of paints to achieve color match.

**CRT 2903  
INTERNSHIP**

Provides students with the experience of a job in a business. 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 internship.

**CRT 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. There will be contracts signed between the school, students, and training site stating the rules and objectives of internship.

**CRT 2991  
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.

**CRT 2992  
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.

**CRT 2993  
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.

**CRT 2994  
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.

**CRT 2995  
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.

**CRT 2996  
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.



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## **COMS 1003 INTRO COMP BASED SYS**

Provides students with both computer concepts and hands-on applications. Although little or no prior computer experience is required for this course, keyboarding proficiency is assumed. Topics include PC basics, file maintenance, and hardware and software components. Students will gain experience in the use of Windows, e-mail, the Internet, word processing, spreadsheets, databases, and presentation packages. The integration of software packages will also be covered. Note: This course may not be taken for credit after completion of COMS 2003 or BUAD 2003. Note: Credit by examination is offered to students who have notable experience with computers and MS Office applications. Information regarding this examination can be found at [cs.atu.edu/coms1003](http://cs.atu.edu/coms1003).

## **COMS 1101 INTRO MICROS/DOS/WINDOWS**

coms 1101

## **COMS 1103 FORTRAN PROGRAMMING**

Prerequisites: MATH 1113 or equivalent An introduction to programming using the FORTRAN language with emphasis on numerical computing, including the use of scientific subroutine libraries.

## **COMS 1121 INTRO MAINFRAME COMP**

coms 1121

## **COMS 1203 PROGRAMMING IN BASIC**

An introduction to programming using BASIC and/or Visual Basic.

## **COMS 1221 INTER SPREADSHEETS**

coms 1221

**COMS 1241  
ADVANCED SPREADSHEETS**

coms 1241

**COMS 1303  
COMP APPL FOR TECH MAJ**

Co-requisite: MATH 1113 or equivalent The purpose of this course is to give the students in engineering, mathematics, chemistry, and other technical disciplines the prerequisite computer skills necessary to make effective use of the computer in their major degree programs where computer applications have been integrated into the course of study.

**COMS 1321  
INTER WORD PROCESSING**

coms 1321

**COMS 1333  
WEB PUBLISHING I**

Prerequisites: COMS 1003 or BUAD 2003 This course focuses on how to develop web pages for display on the World Wide Web. Topics covered include markup languages, style sheets, links, images, multimedia, tables, forms, design issues, and other topics as appropriate. Students will learn how to publish a web site to a server and maintain the site.

**COMS 1341  
DESKTOP PUBLISHING**

coms 1341

**COMS 1403  
ORIENT TO COMP INFO/TECH**

Co-requisite: MATH 1113 and COMS 1411 (Required of all students who have declared a major in computer science, information systems, and information technology). An introduction to the professions of computer science, information systems, and information technology. Topics include ethics, professionalism, and opportunities within the three fields as well as an overview of hardware, software, technology, and information systems concepts and terms.

**COMS 1411  
COMPUTER/INFO SCI LAB**

Co-requisite: COMS 1403 An introduction to the computing resources of the department and the university.

**COMS 1421  
INTER DATABASE SYSTEMS**

coms 1421

**COMS 1441  
ADV DATABASE SYSTEMS**

coms 1441

**COMS 1501  
INTRO COMP GRAPHICS**

coms 1501

**COMS 1541  
ADV COMP-AID DES GRAPH**

coms 1541

**COMS 1601  
COMPUTER NETWORKS**

coms 1601

**COMS 1701  
COMP APPLICATIONS/MATH**

coms 1701

**COMS 2003  
MICROCOMP APPLICATIONS**

Prerequisites: COMS 1003 or BUAD 2003 This course provides hands-on experience with several software applications. Topics include intermediate and advanced word processing and desktop publishing features; spreadsheet design, formulas, and charts; database design principles and implementation; presentation design and techniques; and integration among these applications. Students will be required to apply each package on a semester project related to their major.

**COMS 2104  
FOUND COMPUTER PROG I**

Prerequisites: MATH 1113, and either COMS 1403 and 1411 or consent of instructor. An introduction to structured programming using C++. This is the beginning programming course for students majoring in computer science, information systems, and information technology. Programming principles covered in lecture are practiced in lab. Major topics include sequential, selection, and iterative control structures, functions, parameter passing, and file processing. Arrays are introduced as a structured data type.

### **COMS 2163 SCRIPTING LANGUAGES**

Prerequisite: Minimum of 3 hour programming course. This course introduces the student to script writing in several languages. The primary categories of scripts will be UNIX shell, text processing, and Perl. CGI Scripts, using Perl, will be introduced.

### **COMS 2203 FOUND COMPUTER PROGRAMMING II**

Prerequisites: MATH 1113 and completion of COMS 2104 with a grade equal to or greater than a C. Topics include multi-dimensional arrays, functions, string processing, classes, and records. Students are introduced to object-oriented programming using C++.

### **COMS 2213 DATA STRUCTURES**

Prerequisites: COMS 2203, and COMS 2903 This course involves a study of abstract data structures and the implementation of these abstract concepts as computer algorithms.

### **COMS 2223 COMPUTER ORGANIZATION/PROG**

Prerequisite: COMS 2203 and ELEG 2134. This course covers computer architecture and machine-level programming in assembly language. Considerable practical experience will be gained through programming projects. Topics include internal data representation and manipulation, as well as physical, and logical level input-output macros.

### **COMS 2233 INTRODUCTION/DATABASES**

Prerequisite: COMS 1003 or 1403 This course develops a detailed understanding of a database software package developed for microcomputer applications. Topics include how to design, implement, and access a personal database. Entity relationship diagrams are emphasized in design. The use of macros, data conversion operations, linking, and complex selection operations are used in implementation. Advanced report generation mechanisms are covered along with custom-designed menus and user interfaces.

### **COMS 2333 WEB PUBLISHING II**

Prerequisites: COMS 1333 or consent of instructor. This course is a continuation of COMS 1333. Students are introduced to multimedia design concepts and software. Multimedia applications and design tools are used to create and maintain multimedia products such as dynamic graphics, animation, interactive websites, and video.

**COMS 2700  
NETWORK ARCH LAB**

Co-requisite: COMS 2703 Laboratory exercises repairing and networking computers.

**COMS 2703  
COMPUTER NETWORKS/ARCHITECTURE**

Prerequisites: COMS 1411 and COMS 1403 Co-requisite: COMS 2700 This course covers how to install and administer a local area network and connect it to the Internet. Topics include network architecture, hardware, and software, along with popular protocols for establishing connectivity for sharing resources such as printers and files. Participation in a designated lab outside of the regularly scheduled meeting time is required.

**COMS 2713  
SURVEY/OPERATING SYSTEMS**

Prerequisites: COMS 1411; COMS 1003 or COMS 1403 Several Operating Systems (such as Unix, Microsoft, AS/400) will be examined with regard to the user's view of the system. This view includes the types of files supported, the kinds of operations that can be performed on files (from the shell and from programs), the mechanisms for starting and controlling processes (i.e. running programs), some basic utility programs that a beginning or intermediate level administrator would need to use.

**COMS 2733  
INTRO COMP FORENSICS/SECURITY**

Prerequisite: COMS 2703 Co-requisite: COMS 2713 An introduction to the fundamentals of computer forensic technology. The course emphasizes techniques for identifying and minimizing the threats to, and vulnerabilities of computer systems. These techniques include methods and tools for tracking suspicious activity, for recovering and preserving digital media, and for doing post-mortem analysis.

**COMS 2803  
PROGRAMMING IN C**

Co-requisite: MATH 1113 Not for majors. This course involves the design, coding, debugging, and implementation of programs using the C language. The UNIX operating system is introduced. Note: May not be taken for credit after the successful completion of COMS 2104.

**COMS 2853  
BUSINESS APPL PROGRAM COBOL**

Prerequisites: COMS 2203 This course involves the analysis, design, development, testing, implementation, and maintenance of business application programs using the COBOL language. Topics include traditional data file organization, access, and processing methodologies. Additional topics include data validation, tables, sorting, searching, screen I/O, and report-based output. Programs are developed in PC and IBM mid-range computing environments.

**COMS 2903  
DISCRETE STRU/TECH MAJOR**

Prerequisite: MATH 1113 Fundamental mathematical concepts related to computer science, information systems, and information technology, including logic and proof techniques; sets, sequences, relations, and functions; combinatorics; algebraic structures and Boolean algebra; trees and graphs.

**COMS 2981  
SPECIAL TOPICS**

Prerequisite: Permission of the department. This course will be offered on an "as-needed" basis to cover those topics and subject areas in computing that are emerging in a technological sense, but that do not yet warrant the addition of a new course to the curriculum. Note: This course may be repeated for credit if course content differs.

**COMS 2982  
SPECIAL TOPICS**

Prerequisite: Permission of the department. This course will be offered on an "as-needed" basis to cover those topics and subject areas in computing that are emerging in a technological sense, but that do not yet warrant the addition of a new course to the curriculum. Note: This course may be repeated for credit if course content differs.

**COMS 2983  
SPECIAL TOPICS**

Prerequisite: Permission of the department. This course will be offered on an "as-needed" basis to cover those topics and subject areas in computing that are emerging in a technological sense, but that do not yet warrant the addition of a new course to the curriculum. Note: This course may be repeated for credit if course content differs.

**COMS 2984  
SPECIAL TOPICS**

Prerequisite: Permission of the department. This course will be offered on an "as-needed" basis to cover those topics and subject areas in computing that are emerging in a technological sense, but that do not yet warrant the addition of a new course to the curriculum. Note: This course may be repeated for credit if course content differs.

**COMS 3053  
IMPLICATIONS/TECHNOLOGY/SOCIETY**

Prerequisite: Junior standing This course explores social, legal, philosophical, political, economic, and constitutional issues related to information technology. The focus will be on those issues faced as members of a complex technological society and as professionals in a technology-related field. Extensive research on current issues is expected.

**COMS 3163  
WEB PROGRAMMING**

Prerequisite: COMS 2163 This course expands on the concept of CGI programming introduced in COMS 2163. Topics include features of web forms and CGI processing via a scripting language. Basic database interaction and Server-Side Includes (SSI), client-side implementation of pop-up windows, form validation, cookies, security, and other concepts will also be discussed.

**COMS 3213  
ADVANCED DATA STRUCTURES**

Prerequisite: COMS 2213. Concepts, implementation, and application of B trees, AVL trees, hashing, graphs, and other abstract data structures will be studied.



**COMS 3333  
IMPLEMENT/E-COMMERCE**

Prerequisites: COMS 2333 and 3163 This course covers technical issues involved in developing online stores. The primary emphasis of this course will be the design, implementation, and configuration of the "shopping carts" used for online business. Particular attention will be paid to areas of security, privacy, and protection.

**COMS 3503  
VISUAL PROGRAMMING**

Prerequisites: COMS 2003 (or equivalent) and COMS 2213 This course covers the design and development of event-driven programs using an object-oriented visual programming language such as Visual Basic.

**COMS 3513  
ADMIN/USING IBM PLATFORM**

Prerequisites: COMS 2104 or consent of instructor. This course is an introduction to the operations of the IBM midrange computer system. Topics include architecture, system security, user interface, and work management. Coverage will also extend to applications and programming using an introduction to DB2 and RPG.

**COMS 3523  
HUMAN FACTORS/INFO TECH**

Prerequisites: Junior standing in a computing major or instructor consent. A study of the major factors involved in Human-Computer Interaction. A system-oriented, multi-disciplinary approach to understanding the human considerations in the design, testing, implementation, and administration of computer-based systems and information technology.

**COMS 3603  
PRINC OF MGT SCIENCE**

Prerequisites: BUAD 2053 and junior standing. An introduction to management science analytical techniques, including such topics as the simplex method of linear programming, dual problem and sensitivity analysis, and integer programming. Emphasis is placed on the application of these methods using case studies and examples from the area of finance, marketing, and production. Applicable management science software will be used.

**COMS 3703  
OPERATING SYSTEMS**

Prerequisites: COMS 2213 and 2223 This course explores the fundamental concepts upon which modern operating systems are based. Topics include CPU, memory, file and device management, concurrent processes, protection mechanisms, and distributed systems. Several important algorithms will be implemented by the student.

**COMS 3803  
COMP APPL/ACCT-BUS**

Prerequisites: COMS 2003 or equivalent, ACCT 2013, Junior standing. Topics to be covered include intermediate and advanced microcomputer applications in business.

**COMS 3903**  
**SYS SOFTWARE/ARCHITECT**

Prerequisites: COMS 2703 and junior standing. This course covers the implementation of production operating systems, the fundamentals of digital logic, and machine architecture. Note: This course does not count as credit toward a degree in Computer Science.

**COMS 4013**  
**QUALITY MGMT INFORMATION TECH**

Prerequisites: BUAD 2053 and COMS 4203 The study of quality management and quality assurance with regard to the analysis, design, development, and implementation of information systems and information technology. Topics include measurement techniques and standards, including ISO 9001 and other associated best practices regarding process management and process improvement.

**COMS 4033**  
**SYS ANALYSIS/DESIGN I**

Prerequisite: COMS 4203 The application of concepts, tools, procedures, and techniques involved in the development of information systems. Emphasis is placed on the systems approach to problem solving, user involvement, the management of quality, project control, and teamwork.

**COMS 4043**  
**SYS ANALYSIS/DESIGN II**

Prerequisites: COMS 4033 and either COMS 4133, 4163, or 4313 A continuation of COMS 4033, with emphasis on the application of the theory and techniques covered in the previous course. Students will research, analyze, design, implement, test and document a complete system. Students will complete and present their final system project as a team.

**COMS 4053**  
**INFO SYS RESOURCE MGMT**

Prerequisites: Junior standing in information systems, information technology, or computer science. A study of the principles and concepts involved in the management of organizational maintenance of all information resources, including hardware, software, and personnel. Includes coverage of departmental functions within computer services and information systems. Additional topics include legal, ethical, and professional issues, quality management, and the strategic impact of information systems.

**COMS 4063**  
**IT PROJECT ADMIN**

Prerequisite: Junior standing in information technology, information systems, or computer science. This course provides a thorough introduction to the art and science of Project Management, as applied in the domain of information technology. Theories, best practices, and tools of project management are studied in relation to the completion of a successful project life cycle.

**COMS 4103  
ORGANIZATION PROG LANGUAGES**

Prerequisite: COMS 2213 and COMS 2223. This course emphasizes the comparative structures and capabilities of several programming languages. Major emphasis will be placed on language constructs and the run-time behavior of programs.

**COMS 4133  
APPL PROGRAM DEVELOPMENT**

Prerequisites: COMS 2213 and COMS 2853 Object-oriented application development. Topics include OO Programming, three-tier design, and model-driven development. The course involves a major individual programming project. Students will develop and present their own large-scale application program.

**COMS 4163  
PERSONAL SOFTWARE ENGR**

Prerequisite: COMS 3213 Formal methods for software specification. Program analysis, verification, and testing. Principles of software design. Object-oriented program implementation. Personal software process and product measurements. Program documentation. Software tools. Each student will implement a large application.

**COMS 4203  
DATABASE CONCEPTS**

Prerequisites: COMS 2003, COMS 2203 and COMS 2903 Problems associated with common data processing systems, reasons for database system development; objectives such as data, device, user, and program independence; hierarchical, network, and relational models; data structures supporting database systems; operational considerations such as performance, integrity, security, concurrency, and reorganization; characteristics of existing database systems.

**COMS 4213  
DATABASE ADMINISTRATION**

Prerequisite: COMS 4203 This course develops a comprehensive foundation in the planning, implementation and execution of database management policies and procedures. Topics include installation, storage and replication implementation, security management, indexing and performance tuning, and backup and recovery.

**COMS 4253  
COMPUTER GRAPHICS**

Prerequisites: COMS 2213 and MATH 4003 Developing algorithms to do line drawing, two and three dimensional displays, clipping and windowing, and hidden line removal. Other areas will include graphic I/O devices, display processors, and data structures for graphics.

**COMS 4303  
CLIENT/SERVER SYSTEMS**

Prerequisites: COMS 2213 and COMS 4203 This course provides in- depth coverage of client/server concepts. The student will use object-oriented visual programming tools and SQL in the construction of client/server programs. Emphasis will be placed on the proper design of server databases and on programming techniques used in event- driven environments.

**COMS 4313**  
**WEB SERVER ADMIN**

Prerequisites: COMS 2333 and COMS 2733 The tools and techniques needed to administer a web server. Installation, configuration, and administration of a variety of web servers on different platforms.

**COMS 4353**  
**ARTIFICIAL INTELL**

Prerequisites: COMS 2213 and junior standing General concepts, wide overview of AI history, and development and future of AI. Implementation of AI techniques using the LISP and or PROLOG languages. Additional topics include pattern recognition, natural language processing, learning process, and robotics.

**COMS 4403**  
**COMPILER DESIGN**

Prerequisites: COMS 2223, 3213 and 4103 This course covers syntax translation, grammars and parsing, symbol tables, data representation, translating control structures, translating procedures and functions, processing expressions and data structures, and multipass translation. Students will design a computer language and implement the compiler.

**COMS 4603**  
**SYSTEM PROGRAMMING**

Prerequisites: COMS 2213 and either COMS 3703 or COMS 3903 This course is intended to give the student practical experience in the implementation, modification, and maintenance of system software.

**COMS 4700**  
**DATA COMMUNICATION/NETWORK LAB**

Co-requisite: COMS 4703 Students will complete network lab exercises in support of COMS 4703.

**COMS 4703**  
**DATA COMMUNIC/NETWORKS**

Prerequisites: COMS 2703, COMS 2903; COMS 2223 or COMS 3903. Co-requisite: COMS 4700 Basic elements and functional aspects of the hardware and software required to establish and control data communications in a stand-alone or network environment. Topics include communication protocols, media, network topologies, and system support software. Participation in a designated lab outside of the regularly scheduled meeting time is required.

**COMS 4710**  
**HETEROGENEOUS NETWORKS LAB**

Co-requisite: COMS 4713 Students will complete network lab exercises in support of COMS 4713.

**COMS 4713  
HETEROGENEOUS NETWORKS**

Prerequisite: COMS 4703 Co-requisite: COMS 4710 The student will design, develop, implement and manage numerous heterogeneous networking operating system environments. Required policies and procedures are examined and developed. Networking tools required for the development of a seamless heterogeneous networking environment are studied and applied.

**COMS 4803  
SYSTEMS SIMULATION**

Prerequisite: COMS 2213 and 3 hours of Statistics. Three hour programming course and junior/senior classification. An introduction to simulation methodology as it applies to the analysis and synthesis of systems. Design of simulation experiments and the analysis of data generated therefrom. Random sampling of the Monte Carlo method are used to develop computer procedures for simulated sampling. A broad range of applications is discussed.

**COMS 4951  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**COMS 4952  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**COMS 4953  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**COMS 4954  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**COMS 4981  
SEMINAR COMPUTER INFO SCIENCE**

Prerequisite: Permission of department A directed seminar in an area of computer and information science. Seminars will focus on topics relating to emerging technologies which are beyond the scope of other computer and information science courses. Note: This course may be repeated for credit if course content differs.

**COMS 4982**  
**SEMINAR COMPUTER INFO SCIENCE**

Prerequisite: Permission of department A directed seminar in an area of computer and information science. Seminars will focus on topics relating to emerging technologies which are beyond the scope of other computer and information science courses. Note: This course may be repeated for credit if course content differs.

**COMS 4983**  
**SEMINAR COMPUTER INFO SCIENCE**

Prerequisite: Permission of department A directed seminar in an area of computer and information science. Seminars will focus on topics relating to emerging technologies which are beyond the scope of other computer and information science courses. Note: This course may be repeated for credit if course content differs.

**COMS 4991**  
**SPEC PROB/COMS INFO SCIENCE**

Prerequisite: Permission of department This course will allow the student to work individually or as part of a small team to study and design practical computerized systems in order to solve problems of particular interest. This course may be used to offer a variety of subjects that strengthen the student's knowledge in areas not covered by other course offerings.

**COMS 4992**  
**SPEC PROB/COMS INFO SCIENCE**

Prerequisite: Permission of department This course will allow the student to work individually or as part of a small team to study and design practical computerized systems in order to solve problems of particular interest. This course may be used to offer a variety of subjects that strengthen the student's knowledge in areas not covered by other course offerings.

**COMS 4993**  
**SPEC PROB/COMS INFO SCIENCE**

Prerequisite: Permission of department This course will allow the student to work individually or as part of a small team to study and design practical computerized systems in order to solve problems of particular interest. This course may be used to offer a variety of subjects that strengthen the student's knowledge in areas not covered by other course offerings.

**COMS 4994**  
**SPEC PROB/COMS INFO SCIENCE**

Prerequisite: Permission of department This course will allow the student to work individually or as part of a small team to study and design practical computerized systems in order to solve problems of particular interest. This course may be used to offer a variety of subjects that strengthen the student's knowledge in areas not covered by other course offerings.



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### **CIS 1103 PROGRAMMING I**

This course is designed to give the student an understanding of established and new methodologies using Microsoft Visual Basic programming. Course content will include an overview of programming, designing an application and using variables and constants. Emphasis will be placed on developing logical thinking skills. No prior programming skill is necessary.

### **CIS 1113 FUNDAMENTAL COMPUTER OPERATION**

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

### **CIS 1123 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 1133 MICROCOMP APPLICATIONS**

This class is an introduction to using microcomputer application software. It uses business software in a hands on lecture approach. Topics include the use of microcomputers for word processing, spreadsheet, database, electronic publishing and presentation functions.

### **CIS 1143 INTRO TO DIGITAL LOGIC**

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 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 networks.

**CIS 1203  
PROGRAMMING II**

A continuation of Programming I. This course introduces the programming power of Microsoft Visual Basic 6.0.

**CIS 1213  
OPERATING SYSTEMS**

Pre-requisite: CIS 1113. Expands on the foundation that was built in Operating Systems I. Topics will include file management, multitasking, graphics, peer-to-peer networking, and accessories. Specific tasks of networking such as E-mail and scheduler will be covered.

**CIS 1223  
NETWORKING II**

Pre-requisite: CIS 1123. 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  
SYSTEM ANALYSIS & 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**

Pre-requisite: CIS 1103. 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 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 1303  
PC MAINTENANCE I**

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**



This course introduces the student to design and development of web pages. HTML, images, 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++**

This course is designed to teach individuals to use the Microsoft Visual Basic for applications. It focuses on macro creation and integration of a programming language into a business application suite.

### **CIS 2303 PC MAINTENANCE II**

Pre-requisite: ICS/CIS 1303. This course is designed to teach individuals core elements of computer repair based on the A+ Certification exams. The student will build on the knowledge acquired from PC Maintenance I, allowing them to be more prepared to diagnose, and repair computers in the working environment.

### **CIS 2903 INTERNSHIP**

Provides students with the experience of a job in a business. 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 internship.

### **CIS 2991 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.

### **CIS 2992 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.

### **CIS 2993 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.

**CIS 2994**  
**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.

**CIS 2995**  
**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.

**CIS 2996**  
**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.



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### **COS 1101 HYGIENE & 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 SALES/MGMT/DEPORT 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/SANITATION II**

Prerequisite: 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 SALES/MGMT/DEPORT 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 & SANITATION III**

Prerequisites: COS 1101 and 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 1110 and 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 1121 and 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 1131 and 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 1141 and 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  
SALES/MGMT/DEPORT III**

Pre-requisites: COS 1151 and 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/PRACTICAL APPLIC**

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

**COS 2991  
SPECIAL TOPICS FOR COS**

This course is designed to introduce students to specific areas in Cosmetology. 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.

**COS 2992  
SPECIAL TOPICS FOR COS**

This course is designed to introduce students to specific areas in Cosmetology. 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.

**COS 2993  
SPECIAL TOPICS FOR COS**

This course is designed to introduce students to specific areas in Cosmetology. 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.

**COS 2994  
SPECIAL TOPICS FOR COS**

This course is designed to introduce students to specific areas in Cosmetology. 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.

**COS 2995  
SPECIAL TOPICS FOR COS**

This course is designed to introduce students to specific areas in Cosmetology. 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.

**COS 2996  
SPECIAL TOPICS FOR COS**

This course is designed to introduce students to specific areas in Cosmetology. 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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### **ECON 2003 PRINC OF ECONOMICS I**

Macroeconomic analysis of output, income, employment, price level, and business fluctuations, including the monetary system, fiscal and monetary policy, and international economics.

### **ECON 2013 PRINC OF ECONOMICS II**

Prerequisite: ECON 2003 Microeconomic analysis of consumer and producer behavior. Includes theory of production and cost, the effects of market structure on resource allocation, distribution of income, and welfare economics.

### **ECON 2103 HONORS PRINC OF ECONOMICS I**

Prerequisites: Admission to University Honors or permission of Honors Director. Macroeconomic analysis of output, income, employment, price level, and business fluctuations, including the monetary system, fiscal and monetary economics, and international economics.

### **ECON 3003 MONEY AND BANKING**

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. Nature, principles and functions of money, macroeconomic theory, development and operation of financial institutions in the American monetary system, with emphasis on processes, problems, and policies of commercial banks in the United States.

### **ECON 3013 ECON OF LABOR RELATIONS**

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. An overview of U.S. labor sector including demographic trends, labor unions, human capital issues and work-leisure values. A brief review of neo-classical wage theory with critiques. Selected labor sector issues such as global labor developments, public sector employment, migration/mobility and discrimination.

### **ECON 3073 INTER MICROECON THEORY**

Prerequisites: ECON 2003 and 2013, MATH 2243 or 2914, and junior standing. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. An examination of the theories of consumer behavior and demand, and the theories of production, cost and supply. The determination of product prices and output in various market structures and an analysis of factor pricing.

**ECON 3093  
ECONOMETRICS**

Prerequisites: BUAD 2053, PSY 2053 or MATH 2163 or consent of instructor. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. This course develops the theory and applications of regression analysis, which is the primary tool for empirical work in economics. Emphasis is placed on techniques for estimating economic relationships, economic modeling, inference, and testing economic hypotheses in the context of real world problems. Students will also be exposed to other empirical techniques to prepare them for further studies.

**ECON 4001  
READINGS/ECONOMIC THEORY**

Offered: On demand Prerequisites: Senior standing, background of courses needed for problem undertaken and permission of the department head. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. Advanced study on an individual basis is offered in money and banking, public finance, general economics, international trade, labor relations, transportation.

**ECON 4002  
READINGS/ECONOMIC THEORY**

Offered: On demand Prerequisites: Senior standing, background of courses needed for problem undertaken and permission of the department head. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. Advanced study on an individual basis is offered in money and banking, public finance, general economics, international trade, labor relations, transportation.

**ECON 4003  
READINGS/ECONOMIC THEORY**

Offered: On demand Prerequisites: Senior standing, background of courses needed for problem undertaken and permission of the department head. Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. Advanced study on an individual basis is offered in money and banking, public finance, general economics, international trade, labor relations, transportation.

**ECON 4033  
CURRENT ECON PROBLEMS**

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. Emphasis is on a "way of thinking" about current economic problems including a conceptual context, critical thinking and problem solving approaches. Major domestic and global economic trends are reviewed. Current economic issues are selected for evaluation.

**ECON 4053  
COMPARATIVE ECON SYST**

Offered: Fall Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. Survey of a conceptual framework for comparing national economies and for studying a global economic system. Review of the current world economic environment and of policy issues at the national and multinational levels.

**ECON 4073  
WORLD ECONOMIC SYSTEMS**



Offered: On demand Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. A study of the institutional framework of an economic system selected by the instructor. The course includes a visit to the country being studied.

**ECON 4093  
INTL ECON AND FINANCE**

Prerequisites: Additional prerequisites for 3000 and 4000 level courses are listed in the College of Business section of this catalog. A course designed specifically for economics and finance majors desiring an understanding of the interplay of economic and financial forces between nations. While developing the theoretical base underlying these forces, the course will emphasize practical aspects of cross border flows of goods, services, and capital from the point of view of the firm. Lecture and discussion will be supplemented by analysis of cases and current events where appropriate. The content of the course should be readily applicable to any private or public sector policy making situation involving an international dimension in which students find themselves.

**ECON 5073  
WORLD ECONOMIC SYSTEMS**

Offered: On demand Prerequisites: ECON 2003, 2013, or consent of instructor. A study of the institutional framework of an economic system selected by the instructor. The course includes a visit to the country being studied. Note: May not be taken for credit after completion of ECON 4073 or equivalent.

**ECON 6881  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ECON 6882  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ECON 6883  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ECON 6891  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**ECON 6892  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

### **ECON 6893 INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

### **ECON 6894 INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.



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### **ENGL 0203 ENGL AS SECOND LANG**

A course in basic English grammar, composition, reading, aural comprehension, and oral communication designed to prepare speakers of English as a second language for the six hour, college level composition sequence. Note: The grade in this course will be computed in semester and cumulative grade point averages, but the course may not be used to satisfy general education requirements nor provide credit toward any degree. Students who are placed in ENGL 0203 must earn a grade of C or better in the course before enrolling in ENGL 1013. A student who makes a D or F in ENGL 0203 must repeat the course in each subsequent semester until he or she earns a grade of C or better.

### **ENGL 0303 FOUNDATIONAL COMP**

A course in basic grammar and writing to prepare students for the required six hour composition sequence. Note: The grade in the course will be computed in semester and cumulative grade point averages, but the course may not be used to satisfy general education requirements nor provide credit toward any degree. A student who is placed in ENGL 0303 must earn a grade of C or better in the course before enrolling in ENGL 1013. A student who makes a D or F in ENGL 0303 must repeat the course in each subsequent semester until he or she earns a grade of C or better.

### **ENGL 1013 COMPOSITION I**

ACTS-ENGL1013 Prerequisites: Score of 19 or above on English section of the Enhanced ACT, 460 or above on the quantitative portion of the SAT, 40 or above on the TSWE, 75 or above on the COMPASS writing section, or a grade of C or better in ENGL 0203 or 0303. A review of grammar, introduction to research methods, and practice in writing exposition using reading to provide ideas and patterns. Note: May not be taken for credit after successful completion of ENGL 1043.

### **ENGL 1023 COMPOSITION II**

Prerequisites: Minimum grade of C in ENGL 1013 or 1043. A continuation of ENGL 1013 with readings in poetry, fiction, and drama. Note: May not be taken for credit after successful completion of ENGL 1053.

### **ENGL 1043 HONORS COMPOSITION I**

Prerequisite: Admission to the Tech Honors Program or permission of the Honors Program Director. An honors course that concentrates on advanced reading and writing skills. Note: A grade of C or better must be earned in each of the two composition courses used to satisfy the general education requirement of English/ Communication.

### **ENGL 1053 HONORS COMPOSITION II**

Prerequisite: Successful completion of ENGL 1013 or ENGL 1043 and admission to the Tech Honors Program or permission of the Honors Program Director. An honors writing course that includes the study of poetry, fiction, and drama. Note: A grade of C or better must be earned in each of the two composition courses used to satisfy the general education requirement of English/ Communication.

**ENGL 2003  
INTRO/WORLD LITERATURE**

Prerequisite: ENGL 1013 or equivalent. An exploration of significant authors and themes in world literature. Note: ENGL 2003 may be used to fulfill the general education humanities requirements.

**ENGL 2013  
INTRO/AMERICAN LITERATURE**

Prerequisite: ENGL 1013 or equivalent. An exploration of significant authors and themes in American literature. Note: ENGL 2013 may be used to fulfill the general education humanities requirement.

**ENGL 2023  
HONORS WORLD LITERATURE**

Prerequisites: Successful completion of ENGL 1013 or 1043 and admission to the Tech Honors Program, or permission of the Honors Program Director. An honors course that explores significant authors and themes in world literature. Note: ENGL 2023 may be used to fulfill the general education humanities requirement.

**ENGL 2043  
INTRO/CREATIVE WRITING**

Prerequisite: ENGL 1023 or equivalent Introduction to techniques of writing both fiction and poetry.

**ENGL 2053  
TECHNICAL WRITING**

Prerequisite: ENGL 1023 or equivalent Practice in composing abstracts, instructions, visuals, proposals, questionnaires, letters, memos, and a variety of informal and formal reports.

**ENGL 2063  
ADV COMP:PRAC/THEORY**

Prerequisite: ENGL 1023 or equivalent Practice with several types of expository writing. An introduction to research techniques and composition theory.

**ENGL 2173  
INTRO TO FILM**

Cross-listed: Jour 2173 Prerequisite: ENGL 1013 or equivalent A study of film as an art form with particular attention given to genres, stylistic technique and film's relation to popular culture. Note: ENGL 2173 may be used to fulfill the General Education fine arts requirement. Note: ENGL 2173 may not be repeated for credit after the completion of JOUR 2173.

### **ENGL 2213 INTRODUCTION TO DRAMA**

Prerequisite: ENGL 1013 or equivalent A study of drama as literature; a study of terminology and elements of drama and the reading of selected works, including both classic and contemporary.

### **ENGL 2223 INTRODUCTION TO POETRY**

Prerequisite: ENGL 1013 or equivalent A study of basic form, terminology and specific works.

### **ENGL 2233 INTRODUCTION TO FICTION**

Prerequisite: ENGL 1013 or equivalent A study of form, terminology, and specific works of fiction.

### **ENGL 2263 MYTHOLOGY**

Prerequisite: ENGL 1013 or equivalent An introduction to the Western mythologies and a study of their influence on Western literature.

### **ENGL 2283 SCIENCE FICTION AND FANTASY**

Prerequisite: ENGL 1013 or equivalent A survey course which covers classics of the science fiction and fantasy genres. Approach to the works is both historical and thematic.

### **ENGL 2881 PRAC/LIT JOUR PUBL**

Prerequisite: ENGL 1013 or equivalent Students will work as staff members of NEBO: A Literary Journal. Note: May be repeated for a maximum of five semester hours. Cumulative hours in ENGL 2881 and ENGL 4881-4 may not exceed nine.

### **ENGL 3013 SYSTEMS OF GRAMMAR**

Prerequisite: ENGL 1023 or equivalent Students are recommended to complete ENGL 3023 before enrolling in this course. A synthesis of the most useful elements of traditional, transformational, and structural grammar.

**ENGL 3023  
INTRO TO LINGUISTICS**

Cross-listed: FR 3023, GER 3023, SPAN 3023, SPH 3023 Prerequisite: ENGL 1023 or equivalent A study of basic concepts in language, comparative characteristics of different languages, and the principles of linguistic investigation.

**ENGL 3043  
LITERARY EDITING/PUBLISHING**

Prerequisite: ENGL 1023 A study of literary editing and publishing in print and online.

**ENGL 3083  
FICTION WORKSHOP**

Prerequisite: ENGL 2043. Concentration in the writing and evaluation of fiction. Note: May be repeated once for credit as ENGL 3083.

**ENGL 3093  
POETRY WORKSHOP**

Prerequisite: ENGL 2043 Concentration in the writing and evaluation of poetry. Note: May be repeated once for credit as ENGL 3093.

**ENGL 3103  
LITERARY THEORY**

Prerequisite: ENGL 1023 or equivalent A study of contemporary critical approaches to literature.

**ENGL 3173  
STUDIES IN FILM**

Prerequisite: ENGL 1023 or equivalent A focused study of selected films. Course content will vary. Note: May be repeated for credit as ENGL 3173 if course content differs.

**ENGL 3203  
MODERN NOVEL**

Prerequisite: ENGL 1023 or equivalent Reading in representative novels written since 1900.

**ENGL 3223  
YOUNG ADULT LITERATURE**

Prerequisite: ENGL 1023 or equivalent A survey of young adult literature.

**ENGL 3243  
EARLY NOVEL**

Prerequisite: ENGL 1023 or equivalent Reading in representative novels written before 1900.

**ENGL 3293  
STUDIES/LITERATURE/LANG**

Prerequisite: ENGL 1023 or equivalent A focused study of selected literary works or selected language topics. Course content will vary. Note: May be repeated for credit as ENGL 3293 if course content differs.

**ENGL 3303  
LITERATURE OF SOUTH**

Prerequisite: ENGL 1023 or equivalent Reading in representative works by writers in the South since the Civil War.

**ENGL 3313  
AMERICAN LIT TO 1900**

Prerequisite: ENGL 1023 or equivalent Readings in the works of colonial and nineteenth century American authors.

**ENGL 3323  
MODERN AMERICAN LIT**

Prerequisite: ENGL 1023 or equivalent Readings in the works of twentieth century American authors.

**ENGL 3413  
BRITISH LIT TO 1800**

Prerequisite: ENGL 1023 or equivalent Readings in the works of selected early British authors.

**ENGL 3423  
BRITISH LIT SINCE 1800**

Prerequisite: ENGL 1023 or equivalent Readings in the works of nineteenth-and twentieth-century British authors.

**ENGL 3453  
CHAUCER**

Prerequisite: ENGL 1023 or equivalent A study of representative works.

**ENGL 3463  
SHAKESPEARE**

Prerequisite: ENGL 1023 or equivalent A study of selected comedies, histories, and tragedies.

**ENGL 3513  
METHODS OF RESEARCH**

Prerequisite: ENGL 2063, equivalent, or consent. A study of techniques for research.

**ENGL 4013  
HISTORY/ENGL LANGUAGE**

Prerequisite: ENGL 3023, equivalent, or consent. The development of English sounds, inflections and vocabulary.

**ENGL 4023  
SECOND LANG ACQUISITION**

Prerequisite: ENGL 1023, equivalent, or permission of the instructor. An investigation and analysis of the theoretical foundations of learning a second language as a guide to the effective teaching of English to limited English proficiency (LEP) students.

**ENGL 4053  
SEMINAR/TECHNICAL COMM**

Prerequisite: ENGL 2053 or consent. Course content will vary. Note: May be repeated for credit as ENGL 4053 if course content differs.

**ENGL 4083  
SEMINAR:ENGL LANGUAGE**

Prerequisite: ENGL 1023 or equivalent Course content will vary. Note: May be repeated for credit as ENGL 4083 or ENGL 5083 if course content differs.



**ENGL 4093**  
**SEM/CREATIVE WRITING:**

Prerequisite: ENGL 2043 Course content will vary. Note: May be repeated for credit as ENGL 4093 if course content varies.

**ENGL 4173**  
**SEMINAR IN FILM STUDIES**

Prerequisite: ENGL 1023 or equivalent Course content will vary. Note: May be repeated for credit as ENGL 4173 or ENGL 5173 if course content differs.

**ENGL 4213**  
**AMERICAN FOLKLORE**

Prerequisite: ENGL 1023 or equivalent A study of the forms and subjects of American folklore, folklore scholarship and bibliography; field work in collecting folklore. Note: May not be repeated for credit as ENGL 5213.

**ENGL 4283**  
**SEMINAR:WORLD LIT**

Prerequisite: ENGL 1023 or equivalent Course content will vary. Note: May be repeated for credit as ENGL 4283 or ENGL 5283 if course content differs.

**ENGL 4383**  
**SEMINAR: AMERICAN LIT**

Prerequisite: ENGL 1023 or equivalent Course content will vary. Note: May be repeated for credit as ENGL 4383 or ENGL 5383 if course content differs.

**ENGL 4483**  
**SEMINAR: BRITISH LIT**

Prerequisite: ENGL 1023 or equivalent Course content will vary. Note: May be repeated for credit as ENGL 4483 or ENGL 5483 if course content differs.

**ENGL 4683**  
**SEM: GENDER STUDIES**

Prerequisite: ENGL 1023 or equivalent Course content will vary. Note: May be repeated for credit as ENGL 4683 or ENGL 5683 if course content differs.

**ENGL 4703**  
**TCH ENGL SECOND LANG**

Prerequisite: ENGL 1023, equivalent, or consent. An investigation and practice in teaching different levels of English grammar, oral communication, comprehension skills, reading, and composition to foreign students.

**ENGL 4713  
ESL ASSESSMENT**

Prerequisite: ENGL 1023, equivalent, or consent. An introduction to the tools, techniques, and procedures for evaluating the English proficiency and language development of ESL students.

**ENGL 4723  
TEACH PEOPLE/CULTURES**

Prerequisite: ENGL 1023, equivalent, or consent. An examination of cultural diversity in Arkansas and the United States, designed for prospective ESL teachers.

**ENGL 4733  
TCH/ENGL/SECONDARY/SCH**

Prerequisite: Admission to Stage II of the teacher education program. To be taken within one year before student teaching. An introduction to methods and materials used to teach secondary English.

**ENGL 4813  
SR PROJ/CREATIVE WRITING**

Prerequisites: Completion or concurrent enrollment in ENGL 3083 and ENGL 3093. Completion of a significant creative writing project approved by the instructor.

**ENGL 4881  
PRAC/EDIT LIT JOUR**

Prerequisites: ENGL 3083, 3093, or consent. To select and edit writing for publication and to direct staff members in the production of NEBO: A Literary Journal. Candidates for editorial positions must apply to the English Department at the start of the spring semester. Note: May be repeated for a maximum of six semester hours. Cumulative hours in ENGL 2881 and ENGL 4881-4 may not exceed nine.

**ENGL 4882  
PRAC/EDIT LIT JOUR**

Prerequisites: ENGL 3083, 3093, or consent. To select and edit writing for publication and to direct staff members in the production of NEBO: A Literary Journal. Candidates for editorial positions must apply to the English Department at the start of the spring semester. Note: May be repeated for a maximum of six semester hours. Cumulative hours in ENGL 2881 and ENGL 4881-4 may not exceed nine.

**ENGL 4883  
PRAC/EDIT LIT JOUR**

Prerequisites: ENGL 3083, 3093, or consent. To select and edit writing for publication and to direct staff members in the production of NEBO: A Literary Journal. Candidates for editorial positions must apply to the English Department at the start of the spring semester. Note: May be repeated for a maximum of six semester hours. Cumulative hours in ENGL 2881 and ENGL 4881-4 may not exceed nine.

**ENGL 4884  
PRAC/EDIT LIT JOUR**

Prerequisites: ENGL 3083, 3093, or consent. To select and edit writing for publication and to direct staff members in the production of NEBO: A Literary Journal. Candidates for editorial positions must apply to the English Department at the start of the spring semester. Note: May be repeated for a maximum of six semester hours. Cumulative hours in ENGL 2881 and ENGL 4881-4 may not exceed nine.

**ENGL 4951  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**ENGL 4952  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**ENGL 4953  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**ENGL 4954  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**ENGL 4991  
SPEC PROB/ENGL**

Prerequisites: English major or minor and consent of instructor and department head. Course content and credit are designed to meet the needs of the student.

**ENGL 4992  
SPEC PROB/ENGL**

Prerequisites: English major or minor and consent of instructor and department head. Course content and credit are designed to meet the needs of the student.

**ENGL 4993  
SPEC PROB/ENGL**

Prerequisites: English major or minor and consent of instructor and department head. Course content and credit are designed to meet the needs of the student.

**ENGL 4994  
SPEC PROB/ENGL**

Prerequisites: English major or minor and consent of instructor and department head. Course content and credit are designed to meet the needs of the student.

**ENGL 5023  
SECOND LANG ACQUISITION**

An investigation and analysis of the theoretical foundation of learning a second language as a guide to the effective teaching of English to limited English proficiency (LEP) students. Note: May not be taken for credit after completion of ENGL 4023.

**ENGL 5083  
SEMINAR: ENGL LANGUAGE**

Course content will vary. Note: May be taken for credit after completion of ENGL 4083 or ENGL 5083 if course content differs.

**ENGL 5093  
SEMINAR: CREATIVE WRIT**

Opportunity for students to refine style and technique in a genre of creative writing. Note: May be repeated for credit after completion of ENGL 4093 or ENGL 5093 if course content varies.

**ENGL 5173  
SEMINAR IN FILM STUDIES**

This course will examine debates within feminist film theory from structuralism and psychoanalysis in the 1970s to the post-colonial theory, queer theory and post-modernism in the 1990s. Analyses of specific films will focus on the cinematic representation of femininity and masculinity, gendered subjectivities within history and culture, and issues surrounding the cinematic apparatus and spectatorship.

**ENGL 5213  
AMERICAN FOLKLORE**

A study of the forms and subjects of American folklore; folklore scholarship and bibliography; field work in collecting folklore. Note: May not be taken for credit after completion of ENGL 4213.

**ENGL 5283**  
**SEMINAR:WORLD LIT--**

Course content will vary. Note: May be taken for credit after completion of ENGL 4283 or ENGL 5283 if course content differs.

**ENGL 5383**  
**SEMINAR:AMERICAN LIT--**

Course content will vary. Note: May be taken for credit after completion of ENGL 4383 or ENGL 5383 if course content differs.

**ENGL 5483**  
**SEMINAR: BRITISH LIT**

Course content will vary. Note: May be taken for credit after completion of ENGL 4483 or ENGL 5483 if course content differs.

**ENGL 5683**  
**SEM: GENDER STUDIES**

Course content will vary. Note: May be taken for credit after completion of ENGL 4683 or ENGL 5683 if course content differs.

**ENGL 5703**  
**TCH ENGL SECOND LANG**

An investigation and practice in teaching different levels of English grammar, oral communication, comprehension skills, reading, and composition to foreign students. Note: May not be taken for credit after completion of ENGL 4703.

**ENGL 5713**  
**ESL ASSESSMENT**

An introduction to the tools, techniques, and procedures for evaluating the English proficiency and language development of ESL students. Note: May not be taken for credit after completion of ENGL 4713.

**ENGL 5723**  
**TEACH PEOPLE/CULTURES**

An examination of cultural diversity in Arkansas and the United States, designed for prospective ESL teachers. Note: May not be taken for credit after completion of ENGL 4723.

**ENGL 6003  
INTRO GRAD ENGL STUDY**

An exploration of the ideas, methods and resources appropriate to the study of English language and literature. Note: May not be taken for credit after completion of LA 6013.

**ENGL 6013  
STRUCTURE/ENGLISH LANG**

A study of the grammatical system of English through three different approaches: traditional, structural, and transformational-generative.

**ENGL 6023  
COMPOSITION THEORY/PRACT**

A study of composition theory, practice, and pedagogy.

**ENGL 6033  
RHETORIC**

A study of the history, theory, and application of rhetoric.

**ENGL 6083  
SEMINAR IN LINGUISTICS:**

Course content will vary. Note: May be taken for credit after ENGL 6083 if course content varies.

**ENGL 6213  
TOPICS IN LITERATURE**

Examination of various topics through the intensive study of selected literature. Note: May be repeated for credit if course content varies.

**ENGL 6283  
LITERATURE/SOCIETY**

A contextual study of selected works designed to explore the ways in which literature reflects and shapes society. Note: May be repeated if course contents varies.

**ENGL 6813  
DIRECTED READINGS**

A study of literary works selected from the M.A. in English Examination Reading List.

**ENGL 6881  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ENGL 6882  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ENGL 6883  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ENGL 6884  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ENGL 6885  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ENGL 6886  
WORKSHOP**

Prerequisite: Permission of instructor The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**ENGL 6891  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**ENGL 6892  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**ENGL 6893  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**ENGL 6894  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**ENGL 6991  
THESIS RESEARCH**

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed Research on a thesis topic selected by the student in consultation with a supervising professor.

**ENGL 6992  
THESIS RESEARCH**

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed Research on a thesis topic selected by the student in consultation with a supervising professor.

**ENGL 6993  
THESIS RESEARCH**

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed Research on a thesis topic selected by the student in consultation with a supervising professor.

**ENGL 6994  
THESIS RESEARCH**

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed Research on a thesis topic selected by the student in consultation with a supervising professor.



**ENGL 6995**  
**THESIS RESEARCH**

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed Research on a thesis topic selected by the student in consultation with a supervising professor.

**ENGL 6996**  
**THESIS RESEARCH**

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed Research on a thesis topic selected by the student in consultation with a supervising professor.



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### **VIN 1113 INTRO VITICULTURE/VINE ESTAB**

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. CTE General Technology Fee: \$30.

### **VIN 1132 WINTER VITICULTURE/VINE ESTAB**

Pre-requisite: VIN 1113 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**

Pre-requisite: VIN 1113 This course is designed to provide students initiated in the field of viticulture personal 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 TECH**

Pre-requisite: VIN 1113, VIN 1132 recommended This course is designed to provide students initiated in the field of viticulture personal 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 1463 INTRODUCTION TO ENOLOGY**

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: VIN 1463 (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/MID AMERICA**

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: VIN 1463 (recommended) or permission. This course covers process technologies and process systems that are used in modern commercial wineries. This course will include lectures, demonstrations and a 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 workplace safety.

**VIN 2103**  
**INTRO/WINE MICROORGANISMS**

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

**VIN 2112**  
**INTEGRATED PEST MANAGEMENT**

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**

Pre-requisite: VIN 1113 and VIN 1132 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**

Pre-requisite: VIN 1113 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 2463 INTERMEDIATE ENOLOGY**

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

## **VIN 2573 FALL WINE PRODUCTION INTERN**

Prerequisites: VIN 1463, VIN 1483, VIN 1602, and 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 or 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 wine making process and common winery operations.

## **VIN 2592 CELLAR OPERATION TECHNOLOGY**

Prerequisite: VIN 2573 or permission. This course is designed to provide student 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 or her 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.

## **VIN 2663 SENSORY EVALUATION**

Prerequisite: 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 sensor kits and workshops to further their sensory evaluation skills and techniques.

## **VIN 2683 WINE AND MUST ANALYSIS**

Prerequisites: VIN 1463 and CHEM 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 2933 SOILS FOR VITICULTURE**

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.



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### **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 FAC ANAL/TROUBLESHOOT**

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.

### **FAC 2903 INTERNSHIP**

This course provides students with the experience of a job in the facilities management business. Students will participate in internship during the final phase of program completion. There will be contracts signed between the university, student, and training site stating the rules and objectives of the internship.



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### **GEOL 1004 ESSENTIALS/EARTH SCI**

An introduction to the fundamental topics of earth science including physical and historical geology, oceanography, and meteorology. Laboratory exercises include the study of minerals, rocks, fossils, topographic and geologic maps, and oceanographic and meteorological phenomena. Laboratory work will stress the use of the scientific method of problem solving. This course is designed as a general education science requirement and for prospective early childhood and middle level school teachers. Note: Duplicate credit for GEOL 1004 and GEOL 1014 will not be allowed. Lecture three hours, laboratory three hours. \$10 laboratory fee.

### **GEOL 1014 PHYSICAL GEOLOGY**

A survey of the earth's features and forces which modify its surface and interior. Laboratory exercises include the study of minerals, rocks, and landforms through the use of topographic maps and aerial photography. Note: Duplicate credit for GEOL 1014 and GEOL 1004 will not be allowed. Lecture three hours, laboratory three hours. \$10 laboratory fee.

### **GEOL 2001 SEMINAR:**

Prerequisites: GEOL 1014 and 2001 Participants will prepare oral and written reports and participate in discussions of the reports. Topics for the seminar will be determined by the instructors but will be subjects which are beyond the scope of other geology courses.

### **GEOL 2024 HISTORICAL GEOLOGY**

Prerequisite: GEOL 1014 A survey of the physical and biological history of the earth. Laboratory exercises include the study of fossils, geologic maps, and cross sections. Lecture three hours, laboratory three hours. \$20 laboratory fee.

### **GEOL 2111 ENVIRONMENTAL SEMINAR**

Cross-listed: BIOL 2111, CHEM 2111 A seminar for students pursuing the environmental option of geology, biology, or chemistry and other students interested in environmental sciences.

### **GEOL 3001 SEMINAR:**

Prerequisites: GEOL 1014 and 2001 Participants will prepare oral and written reports and participate in discussions of the reports. Topics for the seminar will be determined by the instructors but will be subjects which are beyond the scope of other geology courses.

**GEOL 3004  
STRUCTURAL GEOLOGY**

Prerequisites: GEOL 1014, 2024, and MATH 1203 or 1914 A study and analysis of the structural features of the earth's crust. Lecture three hours, laboratory two hours. \$20 laboratory fee.

**GEOL 3014  
MINERALOGY**

Prerequisites: GEOL 1014, GEOL 2024; CHEM 1114 or CHEM 2124 A study of crystallography, physical and chemical properties, origin, occurrence, and structure theory of minerals. Lecture two hours, laboratory four hours. \$20 laboratory fee.

**GEOL 3023  
GEOLOGIC FIELD TECHNIQUE**

Prerequisites: GEOL 1014, 2024 and 3004 Interpretation of aerial photographs; mensuration techniques using the Brunton compass, hand level, and Jacob's staff, measurement and description of stratigraphic sections; construction of and geologic maps; collecting, sampling, and collation procedures. Lecture laboratory four hours. \$20 laboratory fee.

**GEOL 3044  
GEOMORPHOLOGY**

Prerequisites: GEOL 1014, 2024, 3004, and 3164 A study of land forms and the processes which shape the earth's surface. Special emphasis will be placed on slope forming and fluvial processes. Lecture three hours, laboratory three hours. \$20 laboratory fee.

**GEOL 3053  
GEOL/ENERGY/METALLIC RES**

Prerequisites: GEOL 1014, 3014, and 3164 A study of the principal earth materials essential to local and national economies. Location, genesis, methods of extraction, and primary utilization and conservation are emphasized.

**GEOL 3083  
HYDROGEOLOGY**

Prerequisites: MATH 1113 and GEOL 1014 or permission of the instructor. The earth's hydrologic system is studied in terms of both empirical and quantitative aspects of the steady-state condition of groundwater and its interaction with surface water, as well as transient behavior from the influence of wells. Basic water chemistry is also covered along with transport and fate of pollutants in groundwater.

**GEOL 3111  
ENVIRONMENTAL SEMINAR**

Cross-listed: BIOL 3111, CHEM 3111 A seminar for students pursuing the environmental option of geology, biology, or chemistry and other students interested in environmental sciences.

**GEOL 3124  
INVERT PALEONTOLOGY**

Prerequisite: GEOL 2024 A systematic study of invertebrate fossils and their geologic significance. Lecture laboratory six hours. \$20 laboratory fee.

**GEOL 3153  
ENVIRONMENTAL GEOLOGY**

Prerequisite: GEOL 1014 A study of the geological factors which influence the pollution of land, water, and biological resources; the role of rock and soil in the geobiological community; hydrology; land sliding and faulting in the human environment, natural resource problems; urban and land use planning based on geological data.

**GEOL 3164  
PETROLOGY**

Prerequisite: GEOL 3014 A study of the classification, origin, geologic occurrence, physical and chemical properties of igneous, sedimentary, and metamorphic rocks. Lecture three hours, laboratory three hours. \$20 laboratory fee.

**GEOL 3174  
COMPUTER APPL IN GEOLOGY**

Participants will focus on mastering common geotechnical, oil and gas, and Geographic Information Systems (GIS) software utilized throughout the geologic profession. Course will include techniques on GIS analysis; generating stratigraphic sections, cross-sections, structure contours, fence diagrams, rose diagrams, and other geologic documents; geologic data management. \$20 course fee.

**GEOL 4001  
SEMINAR:**

Prerequisites: GEOL 1014 and 2001 Participants will prepare oral and written reports and participate in discussions of the reports. Topics for the seminar will be determined by the instructors but will be subjects which are beyond the scope of other geology courses.

**GEOL 4006  
FIELD GEOLOGY**

Each summer by arrangement. Prerequisites: GEOL 1014, 2024, 3004, 3014, 3023, 3124, and 3164. A six week summer course of instruction in the use of geologic mapping instruments, interpretation of aerial photographs and their use in the construction of geologic maps, development of techniques necessary in geologic field work, and recognition and interpretation of geologic phenomena. \$10 laboratory fee. The course is offered in cooperation with the University of Arkansas and will be taught in the Dillon, Montana region. The fee for room and board is approximately \$900; cost of tuition and transportation is not included in this amount.

**GEOL 4013  
OPTICAL MINERALOGY**

Prerequisites: PHYS 2024, GEOL 3014, 3164. A study of minerals in thin sections with the petrographic microscope. Lecture laboratory four hours. \$10 laboratory fee.



**GEOL 4023  
PRIN/STRAT/SEDIMENT**

Prerequisites: GEOL 3124 and 3164 A study of sedimentary rocks and their stratigraphic relationships.

**GEOL 4034  
SUBSURFACE GEOLOGY**

Prerequisites: GEOL 3004, 3164, 4023, MATH 1113, PHYS 2014, 2024 A study of analytic procedures in selected topics in geophysics, well logging, and subsurface geological relationships. Lecture three hours, laboratory two hours. \$10 laboratory fee.

**GEOL 4111  
ENVIRONMENTAL SEMINAR**

Cross-listed: BIOL 4111, CHEM 4111 A seminar for students pursuing the environmental option of geology, biology, or chemistry and other students interested in environmental sciences.

**GEOL 4951  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**GEOL 4952  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**GEOL 4953  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**GEOL 4954  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**GEOL 4991  
SPEC PROB/GEOLOGY**

Open to geology majors with the approval of the department head.

**GEOL 4992  
SPEC PROB/GEOLOGY**

Open to geology majors with the approval of the department head.

**GEOL 6881  
WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**GEOL 6882  
WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**GEOL 6883  
WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**GEOL 6884  
WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.



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### **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.

### **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 1123 SEMICONDUCTORS I**

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

### **ICS 1143 INTRODUCTION TO DIGITAL LOGIC**

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 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 1253 NETWORKING II**

Prerequisite: ICS 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 1303  
PC MAINTENANCE I**

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  
BASIC INDUSTRIAL AUTOMATION**

An illustrated study of circuit configurations used in industry. Topics to be covered are: solid-state systems used to control D.C. and A.C. 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**

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 Programming I, Operating Systems, and Digital Logic are brought together and enhanced.

**ICS 2213  
SEMICONDUCTORS II**

A continuation of ICS 1123, this course is a study of field effect transistors, thyristors, and linear integrated circuits.

**ICS 2303  
PC MAINTENANCE II**

Prerequisite: ICS/CIS 1303. This course is designed to teach individuals core elements of computer repair based on the A+ Certification exams. The student will build on the knowledge acquired from PC Maintenance I, allowing them to be more prepared to diagnose, and repair computers in the working environment.

**ICS 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, student, and training site stating the rules and objectives of the internship.

**ICS 2991  
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.

**ICS 2992  
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.

**ICS 2993  
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.

**ICS 2994  
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.

**ICS 2995  
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.

**ICS 2996  
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.

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### **INT 1903 INTERNSHIP**

Provides students with the experience of a job in a business. 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 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, the student, and the 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, the student, and the training site stating the rules and objectives of the internship.



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### **JOUR 1163 BASIC PHOTOGRAPHY**

Cross-listed: ART 1163 A study of the use of the camera, films, equipment, and the basics of black and white processing and printing. Includes introduction to lighting techniques, composition, and color photography.

### **JOUR 1411 PRINT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

### **JOUR 1421 PRINT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

### **JOUR 1811 BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions. Note: Only four hours count for the journalism major.

### **JOUR 1821 BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions. Note: Only four hours count for the journalism major.

### **JOUR 1911 MULTIMEDIA PRACTICUM**

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

### **JOUR 1921 MULTIMEDIA PRACTICUM**



Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

**JOUR 2133  
INTRO/MASS COMMUNICAT**

An introduction to the mass communication process and industry.

**JOUR 2143  
NEWS WRITING**

A study of and practice in writing news stories.

**JOUR 2153  
INTRO/TELECOMMUNICATION**

A study of the technical, legal, programming, advertising and journalistic aspects of the telecommunication industry with practical exercises in radio, television and the Internet.

**JOUR 2163  
INTRODUCTION TO FILM**

An examination of the film as a mass communication form. The role of film in the history and development of mass communication as well as its current role will be examined. The course will include the viewing of various films. May not be taken for credit after completion of ENGL 2163.

**JOUR 2173  
INTRO TO FILM**

Cross-listed: ENGL 2173 Prerequisite: ENGL 1013 or equivalent. A study of film as an art form with particular attention to genres, stylistic technique and film's relation to popular culture. Note: JOUR 2173 may be used to fulfill the fine arts General Education requirement. Note: JOUR 2173 may not be repeated for credit after the completion of ENGL 2173.

**JOUR 2411  
PRINT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

**JOUR 2421  
PRINT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

**JOUR 2811  
BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions. Note: Only four hours count for the journalism major.

**JOUR 2821  
BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions. Note: Only four hours count for the journalism major.

**JOUR 2911  
MULTIMEDIA PRACTICUM**

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

**JOUR 2921  
MULTIMEDIA PRACTICUM**

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

**JOUR 3111  
EDITORIAL CONFERENCE**

Prerequisite: Permission of instructor. Student news executives meet regularly with faculty to critique publication and broadcast products.

**JOUR 3114  
NEWS EDITING**

Prerequisite: JOUR 2143, 3143. A study of copy reading, headline writing, makeup, and problems and policies of editing the news. Three hours lecture, two hours laboratory arranged.

**JOUR 3121  
EDITORIAL CONFERENCE**

Prerequisite: Permission of instructor. Student news executives meet regularly with faculty to critique publication and broadcast products.

**JOUR 3133  
PUBLICATIONS MANAGEMNT**

An analysis of the problems in managing newspapers, magazines and other mass media.

**JOUR 3143  
NEWS REPORTING**

Prerequisite: ENGL 1013 or 1043 and JOUR 2143 A study of news gathering and writing techniques.

**JOUR 3153  
FEATURE WRITING**

Prerequisite: Permission of the instructor. A study of and practice in writing of newspaper features and magazine articles.

**JOUR 3163  
NEWS PHOTOGRAPHY**

Prerequisite: ENGL 1013 or 1043 A study of the use of the camera, communication through pictures, news value in pictures, and the history of photojournalism.

**JOUR 3173  
PUBLIC RELATIONS PRINCIP**

A study of public opinion and the role of the mass media in shaping it, including practice in public opinion research, communications techniques and solving public relations problems.

**JOUR 3183  
BROADCAST NEWS WRITING**

Prerequisite: JOUR 2143 or 3143 Principles and techniques of writing and production of radio and television news. Two hour class, two hour laboratory.

**JOUR 3193  
TELEVISION NEWS PROD**

Prerequisite: JOUR 2143 or 3143 or consent of instructor. Study and practice in directing and producing television news programs, including experience in announcing, preparing scripts and video tape, and operating cameras and other studio equipment. One hour lecture, three hours laboratory.

**JOUR 3273  
PUBLIC RELATIONS WRITING**

Prerequisites: JOUR 3173. Provides the knowledge and skill training for students to become effective public relations writers. The course will focus on style and content of writing news releases, speeches, newsletters, brochures, annual reports and other public relations communications.

**JOUR 3411  
PRINT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

**JOUR 3421  
PRINT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

**JOUR 3811  
BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions, including work as manager, producer, or director. Note: Only four hours count for the journalism major.

**JOUR 3821  
BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions, including work as manager, producer, or director. Note: Only four hours count for the journalism major.

**JOUR 3911  
MULTIMEDIA PRACTICUM**

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

**JOUR 3921  
MULTIMEDIA PRACTICUM**

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

**JOUR 4011  
PRACTICAL EDITING**

Actual experience editing news. Arranged with an instructor. Note: May be taken for a maximum of three hours.

**JOUR 4012  
PRACTICAL EDITING**

Actual experience editing news. Arranged with an instructor. Note: May be taken for a maximum of three hours.

**JOUR 4013  
PRACTICAL EDITING**

Actual experience editing news. Arranged with an instructor. Note: May be taken for a maximum of three hours.

**JOUR 4033  
COMMUNITY JOURNALISM**

A study of journalism as practiced in weeklies, small dailies, and broadcast stations in small towns and cities, including the relationship of the media to the community. Note: For majors and non-majors.

**JOUR 4053  
MASS COMM SEMINAR:**

Prerequisite: Permission of instructor. Studies of the relationship of mass communication to social, political, technical, and economic issues. Course content will vary. Note: May be repeated for credit as JOUR 4053 or 5053 when course content changes.

**JOUR 4073  
GRAPHIC COMMUNICATION**

Prerequisites: JOUR 3173 and JOUR 3273 Presents the elements of effective print design as well as the other decision making processes involved with creating an effective visual communication (type, art and illustration, basic design principles, paper and ink, printing processes, etc.). Students will create visually appealing projects using the industry standard design and photo manipulation software programs.

**JOUR 4083  
NEW COMMUNICAT/TECHNOLOG**

A study of and practice in the use of the developing technology in mass communication, including the social, legal, and economic effects.

**JOUR 4091  
INTERNSHIP**

Credit for work in professional journalistic settings. Credit hours will be based on hours on the job. Note: May be taken for a total of four hours.

**JOUR 4092  
INTERNSHIP**

Credit for work in professional journalistic settings. Credit hours will be based on hours on the job. Note: May be taken for a total of four hours.

**JOUR 4093  
INTERNSHIP**

Credit for work in professional journalistic settings. Credit hours will be based on hours on the job. Note: May be taken for a total of four hours.

**JOUR 4094  
INTERNSHIP**

Credit for work in professional journalistic settings. Credit hours will be based on hours on the job. Note: May be taken for a total of four hours.

**JOUR 4111  
EDITORIAL CONFERENCE**

Prerequisite: Permission of instructor. Student news executives meet regularly with faculty to critique publication and broadcast product.

**JOUR 4113  
HISTORY/AMERICAN JOUR**

Prerequisite: Permission of instructor. A survey of the history of American journalism and mass media and their relationships to technical, economic, political, and other aspects of American society. Note: May not be repeated for credit as JOUR 5113.

**JOUR 4121  
EDITORIAL CONFERENCE**

Prerequisite: Permission of instructor. Student news executives meet regularly with faculty to critique publication and broadcast product.

**JOUR 4123  
LAWS OF COMMUNICATION**

A study of the development of freedom of press and speech, laws of libel, contempt, privacy and copyright in their relation to press, radio, television, and films.

**JOUR 4133  
TV PROGRAM PRODUCTION**

Prerequisite: JOUR 3193 or consent of instructor. Study and practice in shooting, writing, editing, and producing news, sports and feature packages. Stories will be aired during live news programming on Tech TV and placed in student video portfolios. Practical experience will focus on operating field and studio gear, including digital cameras and editing decks, and use of new media news gathering equipment.

**JOUR 4143  
ADVANCED REPORTING**

Prerequisites: JOUR 2143 and 3143 or permission of instructor. Study of advanced news gathering techniques and practice in researching and writing difficult types of stories.

**JOUR 4153  
EDITORIAL COL REV WRIT**

Study of and practice in writing editorials, columns, and reviews. Includes research and discussion of the function of opinion writing in the mass media.

**JOUR 4163  
ADVANCED PHOTOGRAPHY/VIDEO**

Prerequisite: JOUR (ART) 1163 or consent of instructor. An introduction to advanced photographic techniques including digital photography and nonlinear editing. Various historic and current theories of visual journalism provide a substantive base for the application of techniques.

**JOUR 4173  
PUBLIC RELATIONS PROJ**

Prerequisites: JOUR 3173, JOUR 3273, JOUR 4073, or consent of instructor. Planning, preparation and execution of a public relations program for a specific project.

**JOUR 4193  
COMM RESEARCH METHODS**

Introduction to the methodologies of behavioral science applied to communication research including design, measurement, data collection, and analysis. Explores the use of surveys, content analysis, focus groups, and experiments in studies of communication processes and effects.

**JOUR 4243  
JOUR WRITING SEMINAR**

A concentrated fundamentals writing course that deals with traditional techniques and various formats for journalistic writing such as editorials, feature stories, columns, reporting, press releases, and interviews.

**JOUR 4411  
PRNT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

**JOUR 4421  
PRINT PRACTICUM**

Students will learn practical skills in the areas of writing, layout and design and photography while working an assigned number of hours each week for the student newspaper.

**JOUR 4811  
BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions, including work as manager, producer, or director. Note: Only four hours count for the journalism major.

**JOUR 4821  
BROADCAST PRACTICUM**

Practical work experience in the studios of KXRJ FM and Tech television productions, including work as manager, producer, or director. Note: Only four hours count for the journalism major.

**JOUR 4883  
MASS COMM THEORY**

Prerequisites: 15 semester hours of Journalism. This course provides an examination of the major theories and domains of mass communication research, emphasizing mass media effects. Students are acquainted with the assumptions, propositions, and empirical research foundations of these theories. The course covers the historical evolution and recent trends in mass communication theory as well as the application of theories to specific contexts such as marketing or organizational communication.

**JOUR 4911  
MULTIMEDIA PRACTICUM**

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

**JOUR 4921  
MULTIMEDIA PRACTICUM**

Practical work experience in the multimedia lab including work as Web news manager, producer, Web content director.

**JOUR 4951  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.



**JOUR 4952  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**JOUR 4953  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**JOUR 4954  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**JOUR 4991  
SPEC PROB/JOUR**

This course, for majors only, requires advanced approval by the instructor and is restricted to second semester juniors and seniors. It is designed to provide certain advanced students with further concentration in a particular area. One, two, three, or four hours may be taken as appropriate.

**JOUR 4992  
SPEC PROB/JOUR**

This course, for majors only, requires advanced approval by the instructor and is restricted to second semester juniors and seniors. It is designed to provide certain advanced students with further concentration in a particular area. One, two, three, or four hours may be taken as appropriate.

**JOUR 4993  
SPEC PROB/JOUR**

This course, for majors only, requires advanced approval by the instructor and is restricted to second semester juniors and seniors. It is designed to provide certain advanced students with further concentration in a particular area. One, two, three, or four hours may be taken as appropriate.

**JOUR 4994  
SPEC PROB/JOUR**

This course, for majors only, requires advanced approval by the instructor and is restricted to second semester juniors and seniors. It is designed to provide certain advanced students with further concentration in a particular area. One, two, three, or four hours may be taken as appropriate.

**JOUR 5033  
COMMUNITY JOURNALISM**

A course to acquaint the student with the characteristics of journalism as practiced in small towns and cities and study the relationship of the news media to the other institutions of the town or city.

**JOUR 5053  
MASS COMM SEMINAR**

Prerequisite: Permission of instructor Studies of the relationship of mass communication to social, political, technical, and economic issues. Course content will vary. Note: May be repeated for credit as JOUR 5053 when course content changes.

**JOUR 5083  
NEW COMMUNICAT/TECHNOLOG**

A study of and practice in the use of the developing technology of mass communication, including the social, legal and economic effects.

**JOUR 5113  
HISTORY/AMERICAN JOUR**

Prerequisite: Permission of instructor A survey of the history of American journalism and mass media and their relationships to technical, economic, political, and other aspects of American society. Note: May not be taken for credit after completion of JOUR 4113 or equivalent.

**JOUR 5123  
LAWS OF COMMUNICATION**

This course will familiarize the student with legal knowledge necessary for a communication specialist or working journalist. The course will attempt to identify case and statute law. It will also include in-depth research in particular legal matters. Note: May not be taken for credit after completion of JOUR 4123, or equivalent.

**JOUR 5163  
ADV PHOTOGRAPHY/VIDEO**

An introduction to advanced photographic techniques including color film processing, digital photography, and nonlinear editing. Various historic and current theories of visual journalism provide a substantive base for the application of techniques.

**JOUR 5193  
COMM RESEARCH METHODS**

Introduction to the methodologies of behavioral science applied to communication research including design measurement, data collection, and analysis. Explores the use of surveys, content analysis, focus groups, and experiments in studies of communication processes and effects. Students will complete a research project.

**JOUR 5243**  
**JOUR WRITING SEMINAR**

This course is designed to teach the fundamentals of news writing and fact-gathering for the mass media in a concentrated format. Emphasis will be on newspaper writing style, but the fundamentals will apply to broadcasting, news media, public relations, advertising, and other fields.

**JOUR 6053**  
**MEDIA AND SOCIETY**

Prerequisite: SPH 5003, Human Communication Theory. Incorporates mass communication theory as well as the global nature of media operations while focusing on the relationship between mass media and society. Students will examine contemporary issues that confront media professionals together with the social responsibilities and ethical questions that attend such issues. The political, social, and governmental influences on media policies and practices will also be emphasized in addition to the effects of media on society and culture.

**JOUR 6133**  
**MULTI-MEDIA PUBLISHING**

Prerequisite: JOUR 5163, Advanced Photography and Video. Focuses on designing communication messages on the computer that combine several media and are interactive. Using the same software tools that are used in the multi-media industry, students learn to conceptualize, design, prepare, and program works for publication on CD-ROM and/or the WEB. Projects incorporate photographs, music, sound, video, and extensive user interactivity. Work in the course attempts to parallel product development in the real world multi-media industry.

**JOUR 6163**  
**SUR 20TH CENTURY PHOTO**

An investigation of the development of photography as a fine art or commercial art form or as a medium for social documentary. Fine art photography is emphasized with the work of significant advertising, commercial, and documentary photographers also included.

**JOUR 6193**  
**JOUR WRITING/MULTI-MEDIA**

Introduction to writing for multi-media. Course explores the advantages, audiences, and various technologies before studying the formats and language appropriate for each medium. Students develop their writing skills through analysis and practice.

**JOUR 6263**  
**SURVEY/PHOTOJOURNALISM**

An investigation of the development of photography as a journalistic medium and as a medium for social documentary. The work and working methods of major photojournalists from about the time of the American Civil War to the present will be examined along with the impact of photojournalism on modern society.

**JOUR 6891**  
**INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**JOUR 6892  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**JOUR 6893  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**JOUR 6894  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**JOUR 6991  
PROJ/THESIS RES CONTINUATION**

This course allows students additional time to research and compose their capstone project/portfolio.

**JOUR 6996  
PROFESSIONAL PROJECT**

Projects should be original work that is a manifestation of the student's multi-media expertise and reflect both a mastery of content with respect to a given topic as well as the technological skill to present the same in a multi-media format. All completed projects must include a written review of the literature and other materials relevant to the project. It is anticipated that the review will be substantive and comprehensive, and clearly indicate how the project builds on intellectual and journalistic traditions.



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### **LE 1003 INTRO 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 RELATION/LAW ENFRMNT**

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, JUVENILE LAW**

An in-depth look at state and local law including structure, statutes, 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/INTERROGAT/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: BUS 1303 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 indentifying financial fraud, identity theft, locating and picking victims and offenders with a survey of associated laws, regulations, and international standards.

### **LE 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, student, and training site stating the rules and objectives of the internship.

### **LE 2991 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.

### **LE 2992 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.

### **LE 2993 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.

### **LE 2994 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.

**LE 2995**  
**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.

**LE 2996**  
**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.



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### **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.





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**MUS 1000  
RECITAL ATTENDANCE**

Offered on a pass/fail basis. Students are required to attend a specified number of recitals each semester and must pass at least six semesters to receive the B.A. degree in music or bachelor of music education.

**MUS 1001  
APPL MUSIC/TRUMPET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor. \$60 applied music fee

**MUS 1002  
APPL MUSIC/TRUMPET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1011  
APPL MUSIC/FR HORN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1012  
APPL MUSIC/FR HORN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1021**  
**APPL MUS/TROMBONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1022**  
**APPL MUS/TROMBONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1031**  
**APPL MUS/EUPHONIUM**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1032**  
**APPL MUS/EUPHONIUM**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1041**  
**APPL MUS/TUBA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1042**  
**APPL MUSIC/TUBA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1051 APPL MUS/CLARINET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1052 APPL MUS/CLARINET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1061 APPL MUSIC/OBOE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1062 APPL MUSIC/OBOE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1071 APPL MUSIC/FLUTE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1072**  
**APPL MUSIC/FLUTE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor. \$120 applied music fee.

**MUS 1081**  
**APPL MUS/SAXOPHONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1082**  
**APPL MUS/SAXOPHONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1091**  
**APPL MUSIC/BASSOON**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1092**  
**APPL MUSIC/BASSOON**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1101**  
**APPL MUSIC/VIOLIN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1102**  
**APPL MUSIC/VIOLIN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1111**  
**APPL MUSIC/VIOLA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1112**  
**APPL MUSIC/VIOLA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1121**  
**APPL MUSIC/CELLO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1122**  
**APPL MUSIC/CELLO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1131** **APPL MUS/STR BASS**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1132** **APPL MUS/STR BASS**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1141** **APPL MUS/PERCUSSION**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1142** **APPL MUS/PERCUSSION**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1151** **CLASS GUITAR I**

Prerequisite: Music major Introductory class instruction in folk and popular styles of guitar playing with emphasis on guitar as a teaching tool for classroom music instruction.

**MUS 1201**  
**APPL MUSIC/PIANO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1202**  
**APPL MUSIC/PIANO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1211**  
**APPL MUSIC/HARPSICHORD**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1212**  
**APPL MUSIC/HARPSICHORD**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1221**  
**APPL MUSIC/ORGAN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 1222**  
**APPL MUSIC/ORGAN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1231 APPL MUSIC/VOICE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1232 APPL MUSIC/VOICE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 1241 ITALIAN DICTION**

Prerequisite: Vocal major Co-requisite: MUS 1232 Study of the rules of pronunciation for Italian lyric diction.

### **MUS 1301 OPERA WORKSHOP**

Prerequisite: Permission of instructor The course of study will involve selected scenes from standard opera literature prepared for dramatic presentation. Research will be required pertaining to the historical setting, appropriate costumes, and mannerisms of the period being studied. Staging techniques and set building will be included as deemed necessary to each presentation.

### **MUS 1311 JAZZ ENSEMBLE**

Membership selected by audition. Study and performance of big band jazz styles from the 1930's to present.

### **MUS 1321 JAZZ PIANO**

Offered: As needed Prerequisites: MUS 1713, MUS 1201 or 1441, or instructor approval. Materials and practices for typical jazz keyboard playing. One hour per week.



**MUS 1431  
CLASS PIANO**

Non music majors. For students who have little or no music reading skills, this course concentrates on basic piano skills while learning to read music. At the end of the course students will play pieces using a chord based approach in several keys and styles.

**MUS 1441  
CLASS PIANO**

Prerequisite: Music major A development of the fundamental skills of the piano, emphasizing those aspects most useful to non piano majors. A knowledge of chords is stressed, as is sight reading, improvising, playing in all keys and harmonizing melodies. The second year of class piano extends these skills adding the reading of multiple score parts, modulation, harmonizing with secondary chords, improvising in various composers' styles, playing a wide variety of literature, and accompanying. \$10 applied music fee.

**MUS 1501  
BAND**

Open to students who can satisfy audition requirements. Marching Band, fall semester, or permission of instructor is a prerequisite for Concert Band, spring semester. Fall semester stresses marching band. Spring semester stresses symphonic and concert bands in the study and performance of quality literature.

**MUS 1511  
BRASS CHOIR**

Membership selected by audition. Study and performance of representative brass literature. Rehearsal 3 hours weekly.

**MUS 1521  
WOODWIND ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 1531  
BRASS ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 1541  
PERCUSSION ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 1551  
STRING ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 1571  
UNIVERSITY CHOIR**

Open to all students. A select vocal group of approximately sixty members selected by audition. Study and performance of choral literature of all periods.

**MUS 1581  
CHAMBER CHOIR**

Open to all students by audition. A select choral ensemble of approximately sixteen voices specializing in the performance of chamber choral music from all historical periods. Note: Two or three concerts are presented on campus each semester. Off-campus performances include tours and public relations functions for the university.

**MUS 1591  
SM VOCAL ENSEMBLES**

As needed. Open to all students. Participation in the various ensemble groups such as trios and quartets: study of selected music literature. Membership selected by audition. Two hours weekly.

**MUS 1601  
ORCHESTRAL REPERTOIRE**

Prerequisite: Permission of instructor A study of the landmarks of orchestral repertoire for winds and percussion sections through the preparation and rehearsal of the literature. Note: Each course may be repeated three times.

**MUS 1611  
MUSIC THEATRE WORKSHOP**

Prerequisite: Permission of instructor Selected songs from standard musical theatre literature will be prepared for public performance with an emphasis on popular professional performance techniques. Note: Credit will be given for one leading part or for a series of supporting parts. Two hours weekly.

**MUS 1621  
MUSIC THEATRE PRACTICUM**

Offered: As needed Prerequisite: Permission of instructor Credit will be given for participation that results in a public performance of a major production. Vocal, instrumental, and/or audiovisual technological participation will be accepted. A minimum of 28 hours participation is required.

**MUS 1671  
UNIV-COMMUNITY CHOIR**

Evening rehearsals. Open to all students and other interested persons. Assignments made on the basis of voice classification. Study and performance of choral literature of all historical periods. One and one half hours weekly.

**MUS 1681  
CONCERT CHORALE**

Open to all students by audition. A select choral ensemble of choral music from all historical periods. Two or three major concerts are presented each semester.

**MUS 1703  
MUSIC FUNDAMENTALS**

Offered: As needed Music fundamentals to be included are reading pitch and rhythm, basic notation, rudimentary music theory information about scales, harmony, dynamics, tempo; playing a melody instrument; rudimentary ear training, music composition, and music listening skills.

**MUS 1713  
THEORY I**

Co-requisites: MUS 1731, 1741 Study of scales, triads, seventh chords, diatonic harmonies, simple modulation. Introduction to small forms.

**MUS 1723  
THEORY II**

Co-requisites: MUS 1731, 1741 Study of scales, triads, seventh chords, diatonic harmonies, simple modulation. Introduction to small forms. \$20 freshman level - curriculum content fee.

**MUS 1731  
EAR TRAINING I**

The elements of music fundamentals, both written and aural.

**MUS 1741  
EAR TRAINING II**

The elements of music fundamentals, both written and aural.

**MUS 2003  
INTRODUCTION TO MUSIC**

An overall view of music history from Medieval to Contemporary times with a focus on relating musical happenings and concepts to the other arts.

**MUS 2201  
ACCOMPANYING SEMINAR**

Prerequisites: Piano major or permission of instructor. Development of basic accompanying techniques. Class coaching and presentation one hour weekly, plus assigned accompanying responsibilities in a variety of media. Note: May be repeated three times.

**MUS 2241  
GERMAN DICTION**

Prerequisite: Vocal major Co-requisite: MUS 1232 Study of the rules of pronunciation for German lyric diction.

**MUS 2251  
FRENCH DICTION**

Prerequisite: Vocal major Co-requisite: MUS 1232 Study of the rules of pronunciation for French lyric diction.

**MUS 2411  
INSTRUMENTAL CONCEPTS**

mus 2411

**MUS 2441  
CLASS VOICE**

Offered: Fall Prerequisite: Music major Development of basic vocal techniques through group participation and solo singing. Emphasis is placed on understanding of vocal pedagogy. Supervised practice two hours per week.

**MUS 2451  
CLASS VOICE**

Offered: Fall (Non music majors) Development of basic vocal techniques through group participation and solo singing. Supervised practice two hours per week.

**MUS 2713  
THEORY III**

Co-requisites: MUS 2731, 2741 More advanced harmonic concepts, modulation, chromatic harmonies. Further study of larger forms.

### **MUS 2723 THEORY IV**

Co-requisites: MUS 2731, 2741 More advanced harmonic concepts, modulation, chromatic harmonies. Further study of larger forms.

### **MUS 2731 EAR TRAINING III**

Further work in more advanced ear training and sight singing.

### **MUS 2741 EAR TRAINING IV**

Further work in more advanced ear training and sight singing.

### **MUS 3000 RECITAL ATTENDANCE**

Offered on a pass/fail basis. Students are required to attend a specified number of recitals each semester and must pass at least six semesters to receive the B.A. degree in music or bachelor of music education. \$10 junior level - curriculum content fee.

### **MUS 3001 APPL MUSIC/TRUMPET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3002 APPL MUSIC/TRUMPET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3003**  
**APPL MUSIC/TRUMPET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3011**  
**APPL MUSIC/FR HORN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3012**  
**APPL MUSIC/FR HORN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3013**  
**APPL MUSIC/FR HORN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3021**  
**APPL MUS/TROMBONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3022**  
**APPL MUS/TROMBONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3023 APPL MUS/TROMBONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3031 APPL MUS/EUPHONIUM**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3032 APPL MUS/EUPHONIUM**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3033 APPL MUS/EUPHONIUM**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3041 APPL MUSIC/TUBA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3042**  
**APPL MUSIC/TUBA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3043**  
**APPL MUSIC/TUBA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3051**  
**APPL MUS/CLARINET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3052**  
**APPL MUS/CLARINET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3053**  
**APPL MUS/CLARINET**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.



### **MUS 3061** **APPLIED MUSIC/OBOE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3062** **APPLIED MUSIC/OBOE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3063** **APPLIED MUSIC/OBOE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3071** **APPL MUSIC/FLUTE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3072** **APPL MUSIC/FLUTE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3073** **APPL MUSIC/FLUTE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3081 APPL MUS/SAXOPHONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3082 APPL MUS/SAXOPHONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3083 APPL MUS/SAXOPHONE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3091 APPL MUSIC/BASSOON**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3092 APPL MUSIC/BASSOON**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor. \$120 applied music fee.

**MUS 3093**  
**APPL MUSIC/BASSOON**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3101**  
**APPL MUSIC/VIOLIN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3102**  
**APPL MUSIC/VIOLIN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3103**  
**APPL MUSIC/VIOLIN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3111**  
**APPL MUSIC/VIOLA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3112**  
**APPL MUSIC/VIOLA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3113**  
**APPL MUSIC/VIOLA**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3121**  
**APPL MUSIC/CELLO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3122**  
**APPL MUSIC/CELLO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3123**  
**APPL MUSIC/CELLO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3131**  
**APPL MUS/STR BASS**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3132** **APPL MUS/STR BASS**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3133** **APPL MUS/STR BASS**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3141** **APPL MUS/PERCUSSION**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3142** **APPL MUS/PERCUSSION**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3143** **APP MUS/PERCUSSION**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3151**  
**CLASS GUITAR II**

For music majors. Prerequisite: MUS 1151 or permission of instructor. Advanced class instruction in guitar playing with emphasis on guitar as a teaching tool for classroom music instruction.

**MUS 3201**  
**APPL MUSIC/PIANO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3202**  
**APPL MUSIC/PIANO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3203**  
**APPL MUSIC/PIANO**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3211**  
**APPL MUSIC/HARPSICHORD**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3212**  
**APPL MUSIC/HARPSICHORD**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor. \$120 applied music fee.

### **MUS 3213 APPL MUSIC/HARPSICHORD**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3221 APPL MUSIC/ORGAN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3222 APPL MUSIC/ORGAN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3223 APPL MUSIC/ORGAN**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

### **MUS 3231 APPL MUSIC/VOICE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3232**  
**APPL MUSIC/VOICE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3233**  
**APPL MUSIC/VOICE**

Musical performance includes private study, class piano, class voice, and ensembles. In numbering applied music courses, the first digit, numeral 1, is used for freshman and sophomore level courses; the numeral 3 for junior and senior level courses. The second and third digits indicate applied concentration area (e.g. 20 = piano) and the final digit indicates hours of semester credit. Applied Music (private instruction) requires permission of the department head and is required of all music majors. Applied music students may be assigned participation in designated ensembles in addition to required ensembles. Ensembles are given in the curricula in Music and Music Education. To qualify for three hours per semester, a student must have a minimum 3.50 cumulative GPA in applied music, a 3.00 cumulative GPA in total hours, junior standing and recommendation of the instructor.

**MUS 3281**  
**SEC INSTR METH/MAT I**

Laboratory experience in conducting and performance of materials appropriate to teaching band in the public school.

**MUS 3301**  
**OPERA WORKSHOP**

Prerequisite: Permission of instructor The course of study will involve selected scenes from standard opera literature prepared for dramatic presentation. Research will be required pertaining to the historical setting, appropriate costumes, and mannerisms of the period being studied. Staging techniques and set building will be included as deemed necessary to each presentation.

**MUS 3311**  
**JAZZ ENSEMBLE**

Membership selected by audition. Study and performance of big band jazz styles from the 1930's to present.

**MUS 3321**  
**PRACTICE/IMPROV**

Prerequisites: Successful completion of MUS 3332 or instructor approval. Laboratory experience in improvisation in all jazz styles. Note: This course may be repeated for credit.



**MUS 3322**  
**THEORY OF IMPROVISATION**

Prerequisites: MUS 1713, 1723, 1441, and/or instructor approval. Music theory, materials and practices for improvising or extemporaneous playing. Note: May not be repeated for credit. May not be taken for credit after completion of MUS 3332. One hour class, two hour laboratory per week.

**MUS 3332**  
**THEORY OF IMPROVISATION**

Prerequisite: Successful completion of MUS 3322 Advanced music theory, materials and practices for improvising or extemporaneous playing. Note: May not be repeated for credit. One hour class, two hour laboratory per week.

**MUS 3401**  
**BRASS INSTRUMENTS**

Prerequisite: Music major A study of the instruments of the brass family to the extent that scales and grade one and two solos can be played on selected instruments. Class two hours, practice two hours.

**MUS 3421**  
**WOODWIND INSTR, DBL REED**

Prerequisite: Music major A study of playing and teaching techniques of the woodwind family (oboe, bassoon). Playing of selected instruments will be developed through major scales and grade one and two solos or methods.

**MUS 3431**  
**WOODWIND INSTR, SGL REED**

Prerequisite: Music major A study of playing and teaching techniques of the woodwind family (flute, clarinet, saxophone). Playing of selected instruments will be developed through major scales and grade one and two solos or methods.

**MUS 3441**  
**INSTRUMENTAL CONCEPTS**

Prerequisites: Vocal or Keyboard major A study designed to give non-instrumental music education majors functional knowledge of band and orchestral instruments.

**MUS 3442**  
**PIANO PEDAGOGY**

Offered: Spring A study of pedagogical principles involved in the teaching of private and class piano, with emphasis on outside reading, class discussion, and observation of actual lessons and classes.

**MUS 3481  
STRINGED INSTRUMENTS**

Prerequisite: Music major A study of instruments of the string family (violin, viola, cello, and string bass) with emphasis on the fundamentals of good tone production and bowing techniques to the extent that scales and grade one and two orchestra music can be played on selected instruments.

**MUS 3501  
BAND**

Open to students who can satisfy audition requirements. Marching Band, fall semester, or permission of instructor is a prerequisite for Concert Band, spring semester. Fall semester stresses marching band. Spring semester stresses symphonic and concert bands in the study and performance of quality literature.

**MUS 3511  
BRASS CHOIR**

Membership selected by audition. Study and performance of representative brass literature. Rehearsal 3 hours weekly.

**MUS 3521  
WOODWIND ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 3531  
BRASS ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 3541  
PERCUSSION ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 3551  
STRING ENSEMBLES**

Open to all students. Membership selected by audition. Two hours weekly.

**MUS 3571  
UNIVERSITY CHOIR**

Open to all students. A select vocal group of approximately sixty members selected by audition. Study and performance of choral literature of all periods.

**MUS 3581  
CHAMBER CHOIR**

Open to all students by audition. A select choral ensemble of approximately sixteen voices specializing in the performance of chamber choral music from all historical periods. Two or three concerts are presented on campus each semester. Off-campus performances include tours and public relations functions for the university.

**MUS 3591  
SM VOCAL ENSEMBLES**

As needed. Open to all students. Participation in the various ensemble groups such as trios and quartets: study of selected music literature. Membership selected by audition. Two hours weekly.

**MUS 3601  
ORCHESTRAL REPERTOIRE**

Prerequisite: Permission of instructor A study of the landmarks of orchestral repertoire for winds and percussion sections through the preparation and rehearsal of the literature. Note: Each course may be repeated three times.

**MUS 3611  
MUSIC THEATRE WORKSHOP**

Prerequisite: Permission of instructor Selected songs from standard musical theatre literature will be prepared for public performance with an emphasis on popular professional performance techniques. Note: Credit will be given for one leading part or for a series of supporting parts. Two hours weekly.

**MUS 3621  
MUSIC THEATRE PRACTICUM**

Offered: As needed Prerequisite: Permission of instructor Credit will be given for participation that results in a public performance of a major production. Vocal, instrumental, and/or audiovisual technological participation will be accepted. A minimum of 28 hours participation is required.

**MUS 3632  
SURVEY OF MUSIC THEATRE**

As needed. Survey of Music Theatre is a historical survey of the literature, content and performances practices of music theatre. These proficiencies will be surveyed in terms of broadly defined chronological and style periods.

**MUS 3671  
UNIV-COMMUNITY CHOIR**

Evening rehearsals. Open to all students and other interested persons. Assignments made on the basis of voice classification. Study and performance of choral literature of all historical periods. One and one half hours weekly.

**MUS 3681  
CONCERT CHORALE**

Open to all students by audition. A select choral ensemble of choral music from all historical periods. Two or three major concerts are presented each semester.

**MUS 3692  
HISTORY OF MUSIC III**

Prerequisite: MUS 2723, music major or permission of instructor. A study of 20th century music. Includes one unit of non- western music.

**MUS 3702  
MUSIC TECHNOLOGY**

Prerequisites: Music major with junior standing. Applications of Technology in Music Education. An overview of current technologies to enhance music instruction, assessment, and productivity by the music educator.

**MUS 3712  
COUNTERPOINT**

Offered: As needed Prerequisite: MUS 2723 The contrapuntal techniques and forms of the Baroque era. Analysis of Canons, two and three part Inventions, and fugues of J.S. Bach plus written exercises in two voice counterpoint.

**MUS 3762  
INSTRU/CHORAL ARRANGING**

An introduction to scoring for instrumental and choral groups to meet the needs of adapting music to meet the needs and ability levels of school performing groups and classroom situations.

**MUS 3771  
COMPOSITION**

Offered: As needed Prerequisites: 16 hours of music theory and senior standing or consent of instructor. The study of basic compositional techniques of twentieth-century works and completion of composition project.

**MUS 3772  
COMPOSITION**

Offered: As needed Prerequisites: 16 hours of music theory and senior standing or consent of instructor. The study of basic compositional techniques of twentieth-century works and completion of composition project.

**MUS 3773  
HISTORY OF MUSIC I**

Offered: Fall Prerequisites: MUS 2723 (Theory IV) or permission of instructor. A study of Western Art music from ancient civilization to A.D. 1750.

**MUS 3783  
HISTORY OF MUSIC II**

Prerequisite: MUS 2723 or permission of instructor. A study of classical and 19th century music.

**MUS 3802  
PRIN/CONDUCTING**

Offered: Fall Principles and practices of conducting; a study of music terminology and transpositions; development of baton techniques based on the practice of outstanding choral and instrumental conductors.

**MUS 3821  
SEC CHORAL METH/MAT I**

Choral conducting techniques, tone and diction styles and interpretation, rehearsal techniques, programs and concerts, planning and organization, and service information. Conducting of student ensembles and organizations. Methods and materials I will include review of literature for large and small ensembles appropriate for middle school, junior high, and smaller high school teaching situations.

**MUS 3853  
MUSIC/ELEM CLASSROOM**

Prerequisites: MUS 2723, successful completion of Keyboard Exit Exam, and SEED 2002 or permission of instructor. A study of current practices, methods, and materials for teaching general music to elementary school children with emphasis on curriculum development and diversity in the classroom.

**MUS 4001  
SENIOR RECITAL**

Prerequisite: Six semesters of major applied study. Required of all music education majors. \$175 Applied Music fee.

**MUS 4201  
ACCOMPANYING SEMINAR**

Prerequisite: Two semesters of MUS 2201 and/or permission of instructor. Advanced accompanying techniques for piano majors. Class coaching and presentation one hour weekly, plus assigned responsibilities in a variety of media. Note: May be repeated three times. Note: May substitute for required 3000 level hour of major ensemble enrollment with assignment by instructor to successfully accompany major ensemble or recital.

**MUS 4281**  
**SEC INSTR METH/MAT II**

Laboratory experience in conducting and performance of materials appropriate to teaching band in the public school.

**MUS 4461**  
**PERCUSSION INSTR**

Prerequisite: Music major A study of the instruments of the percussion family to the extent that scales and/or rudiments and grade one and two solos can be played on selected instruments. Designed as a practical preparation for public school teachers. Two hours weekly.

**MUS 4581**  
**VOCAL ENSEMBLES**

As needed. Membership selected by audition. Study and performance of representative vocal literature. Ensembles may be small ensembles such as trios or quartets, or may be large ensembles such as choir or chamber choir. Six hours weekly.

**MUS 4701**  
**SPECIAL METHODS/MUSIC**

Offered: Spring Prerequisites: Admission to Stage II of the Teacher Education program. Intensive on campus exploration of the principles of curriculum construction, teaching methods, use of community resources, evaluation as related to teaching music, and dealing with diversity in the classroom.

**MUS 4712**  
**FORM ANALYSIS**

Offered: Fall Prerequisite: MUS 2723 A study of the standard forms of the Classical period with emphasis on instrumental forms and genres developed in the period 1750-1825 and the continuation and expansion of those forms in the nineteenth century.

**MUS 4771**  
**COMPOSITION**

Offered: As needed Prerequisites: 16 hours of music theory and senior standing or consent of instructor. The study of basic compositional techniques of twentieth-century works and completion of composition project.

**MUS 4772**  
**COMPOSITION**

Offered: As needed Prerequisites: 16 hours of music theory and senior standing or consent of instructor. The study of basic compositional techniques of twentieth-century works and completion of composition project.

**MUS 4803**  
**HIST AM MUS:JAZZ/FOLK**

Open to all students. An in-depth study of folk music and the relationship between these forms and American life. Research, aural activity, and analysis are used to explore a variety of musical forms, composers, and performers.

**MUS 4811**  
**KEYBOARD LITERATURE**

Offered: Fall A survey of piano or organ literature with emphasis on historical development, analysis of selected compositions, and listings of suitable pedagogical materials.

**MUS 4821**  
**SEC CHORAL METH/MAT II**

Choral conducting techniques, tone and diction styles and interpretation, rehearsal techniques, programs and concerts, planning and organization, and service information. Conducting of student ensembles and organizations. Methods and materials II will include a review of historically important choral works and the music of the master composers of each musical epoch. Sight singing methods for group sight reading will be reviewed.

**MUS 4832**  
**VOC SOLO LIT/PEDAGOGY**

Offered: Spring Prerequisite: Junior standing Introduction to and comparison of vocal solo literature and the teaching of vocal technique.

**MUS 4842**  
**SURVEY OF OPERA**

As needed. A history of opera including events which helped in the creation of this art form. Course will include major developments beginning with the Italians and incorporating the French, English and German contributions and styles.

**MUS 4853**  
**MUSIC OF THE WORLD'S PEOPLE**

Cross-listed: ANTH 4853 Open to students in all majors. A survey of predominantly non-Western world music cultures with attention to sonic structures, musicians, musical instruments, and socio-cultural contexts of music making. Listening emphasized.

**MUS 4881**  
**WORKSHOP IN MUSIC**

As needed. Prerequisite: Permission of instructor. Course with variable credit designed to meet specific needs of participants. Each credit hour will require fifteen clock hours of instruction.

**MUS 4882  
WORKSHOP IN MUSIC**

As needed. Prerequisite: Permission of instructor. Course with variable credit designed to meet specific needs of participants. Each credit hour will require fifteen clock hours of instruction.

**MUS 4883  
WORKSHOP IN MUSIC**

Offered: As needed Prerequisite: Permission of instructor Course with variable credit designed to meet specific needs of participants. Each credit hour will require fifteen clock hours of instruction.

**MUS 4951  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**MUS 4952  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**MUS 4953  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**MUS 4954  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**MUS 4972  
MARCHING BAND TECH**

Offered: Fall Prerequisite: Music majors A study of the problems, practices, techniques, and the organization and administration of the marching band.

**MUS 4991  
SPEC PROB/MUSIC**



Offered: As needed Prerequisites: Senior standing and permission of the instructor. Additional work in an area of the student's choice under the direction of the faculty member competent in that area.

**MUS 4992**  
**SPEC PROB/MUSIC**

Offered: As needed Prerequisites: Senior standing and permission of the instructor. Additional work in an area of the student's choice under the direction of the faculty member competent in that area.

**MUS 4993**  
**SPEC PROB/MUSIC**

Offered: As needed Prerequisites: Senior standing and permission of the instructor. Additional work in an area of the student's choice under the direction of the faculty member competent in that area.

**MUS 4994**  
**SPEC PROB/MUSIC**

Offered: As needed Prerequisites: Senior standing and permission of the instructor. Additional work in an area of the student's choice under the direction of the faculty member competent in that area.

**MUS 5803**  
**HIST AM MUS:JAZZ/FOLK**

An in-depth study of folk music and the relationship between these forms and American life. Research, aural activity, and analysis are used to explore a variety of musical forms, composers, and performers.

**MUS 5853**  
**MUSIC OF THE WORLD'S PEOPLE**

Cross-listed: ANTH 5853 A survey of predominantly non-Western world music cultures with attention to sonic structures, musicians, musical instruments, and socio-cultural contexts of music making. Listening emphasized. Note: Open to students in all majors.

**MUS 5881**  
**WORKSHOP IN MUSIC**

Prerequisite: Permission of instructor Course with variable credit designed to meet specific needs of participants. Each credit hour will require the equivalency of fifteen clock hours of instruction.

**MUS 5882**  
**WORKSHOP IN MUSIC**

Prerequisite: Permission of instructor Course with variable credit designed to meet specific needs of participants. Each credit hour will require the equivalency of fifteen clock hours of instruction.

### **MUS 5883 WORKSHOP IN MUSIC**

Prerequisite: Permission of instructor Course with variable credit designed to meet specific needs of participants. Each credit hour will require the equivalency of fifteen clock hours of instruction.

### **MUS 6891 INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

### **MUS 6892 INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

### **MUS 6893 INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

### **MUS 6894 INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. Note: The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.



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### **EMTP 1001 FIRST AID AND CPR**

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. (Cost of certification will be assessed.) Ozark Card Fee; \$3, Ozark Allied Health Fee; \$10.

### **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 EMERGENCY MEDICAL TECHNICIAN**

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 normal and abnormal physiological changes in people, both during their growth and development.

### **EMTP 1107 ADV EMERGENCY MED TECHNICIAN**

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**

Includes the pharmacological developments, standards, and patient rights and drug controls. The student will apply their knowledge of human anatomy and physiology, and ethics with the pharmacological use of medications, pharmacokinetics, fluids, and electrolytes. Clinical pharmacology will be emphasized.

### **EMTP 1123 PREHOSPITAL 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 PAT/ASSESS/PATH SHOCK I**

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 1213 PREHOSPITAL ENVIRONMENT**

The role of the advanced prehospital provider in the EMS system is emphasized along with the legal responsibilities and liabilities within the EMS environment. This course includes the utilization of medical direction and protocols, ethics, and the well being of EMS personnel with an emphasis on illness and injury prevention. Rescue, stress management, and mass casualty response will be included in this course. Hazardous materials as well as violent situations will be covered with an emphasis on personal and bystander safety. The patient assessment portion will include history taking, interview skills, and the physical exam. EMT level assessment techniques will be readdressed in addition to the introduction of paramedic level skills/techniques.

### **EMTP 1221 PHARMACOLOGY II**

Utilizes the EMT 1113 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 electro physiology 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 1303 CARDIOLOGY**

This course is designed to train students to understand the pathophysiology, assessment and management of cardiac patients to include pharmacological and electrical interventions. The pharmacology section will focus on the study, preparation, administration, and indications of cardiac medications. Students will gain knowledge of EKG (ECG) monitoring of leads I, II, and III with an emphasis on the study of arrhythmia etiologies and irregular waveforms. The American Heart Association (AHA) Advanced Cardiac Life Support (ACLS) will be administered during this course. ACLS is designed to offer health care professionals a high-density course of advanced cardiac knowledge and treatment. Critical thinking skills will be examined through case based scenarios as well as a written test. In addition to the regular coursework, students must successfully complete ACLS practical (Pass/Fail) and written exam (84%) to successfully complete Cardiology. (Certification costs will be assessed.) Ozark Allied Health Fee: \$30.

## **EMTP 1304 MEDICAL EMERGENCIES I**

This course will present the student with the pathophysiology, clinical assessment and treatment of patients presenting with specific illness. Pulmonology, neurology, endocrinology, allergies, anaphylaxis, gastroenterology, urology, nephrology, toxicology, substance abuse, hematology, environmental emergencies, and infectious disease will be included in this section with an emphasis on assessment based management of present illness and focused patient complaints for effective 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 1403 MEDICAL EMERGENCIES II**

This course is designed to train students to understand the pathophysiology, assessment and management of infectious disease, abuse or assault, geriatrics, pediatrics, neonatology, and OB/GYN. Emphasis will be placed on assessment based management of present illness and focused patient complaints. The American Heart Association (AHA) Pediatric Advanced Life Support (PALS) program will be presented during this course. PALS is designed to provide health care professionals a greater knowledge of emergency care for the pediatric patient. Airway management, specialized procedures and pharmacological techniques will be addressed. The PALS program stresses critical thinking skills and the student will be examined through case based scenarios as well as a written test. In addition to the regular coursework, students must successfully complete the PALS practical exam (Pass/Fail) and written exam (84%) for successful completion of Medical Emergencies II. (Certification costs will be assessed.)

## **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 1423 TRAUMA MANAGEMENT**

This course is intended to present the student with a comprehensive insight into traumatic injury. Pathophysiology, assessment, and management of trauma to include blunt, penetrating, soft-tissue, burn, musculoskeletal, head, face, neck, spinal, thoracic, and abdominal trauma as well as hemorrhage and shock will be analyzed. Types and phases of shock will be explored to provide the student assessment knowledge for the treatment of various shock conditions. Epidemiology of trauma will be discussed as well as the Arkansas Trauma System. The course will culminate with the National Association of Emergency Technicians (NAEMT) Prehospital Trauma Life Support (PHTLS). PHTLS is designed to refine the student's trauma knowledge and critical thinking skills through lecture, practical applications, and case based management scenarios. The student will also receive insight into special circumstances and alternative treatment methods for trauma victims. (Certification costs will be assessed.)

## **EMTP 1424 PARAMEDIC INTERNSHIP I**

Preceptors in the field will supervise patient assessment and management skills during the student's pre-hospital rotation. Students will have a greater understanding of EMS systems and dispatching or emergencies with a higher level of competency in patient report transmission to the ED's and patient report documentation. Students must successfully complete ACLS, the program's skill and critical thinking competency, to be scheduled for an interview with the program medical director prior to scheduling their internship rotation.

**EMTP 1431  
ADV 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  
PREHOSP TRAUMA LIFE SUPP**

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 ADV LIFE SUPP**

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 1504  
PARAMEDIC INTERNSHIP II**

Continuation of Internship I with evaluation by designated preceptors in the pre-hospital environment. Students must achieve a level of understanding, professionalism and clinical knowledge of pre-hospital emergency care to be recommended by the medical director and program director to enter this phase of the paramedic program. Students must perform patient assessment and management skills while under supervision of experienced preceptors including the ability to perform as a team leader in the pre-hospital setting during this phase of the program. A closer evaluation of student's character and professionalism will be emphasized. This course will be the student's final step in pre-hospital field evaluation.

**EMTP 1512  
ASSESSMENT BASED MGMT**

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  
SPECIAL TOPICS FOR EMTP**

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.

**EMTP 2992**  
**SPECIAL TOPICS FOR EMT**

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.

**EMTP 2993**  
**SPECIAL TOPICS FOR EMT**

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.

**EMTP 2994**  
**SPECIAL TOPICS FOR EMT**

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.

**EMTP 2995**  
**SPECIAL TOPICS FOR EMT**

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.

**EMTP 2996**  
**SPECIAL TOPICS FOR EMT**

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.





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### **PTA 1111 PRINCIPLES OF PHYSICAL THERAPY**

Course credit: 1 hour lecture. 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.

### **PTA 1121 CLINICAL KINESIOLOGY LAB**

Co-requisite: PTA 1122. Lab skills practice to apply concepts presented in PTA 1122. Laboratory: 1 hour.

### **PTA 1122 CLINICAL KINESIOLOGY**

Course credit: 2 hours. Co-requisite: PTA 1121. This course provides an introduction to the 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.

### **PTA 1132 PATHOLOGICAL CONDITIONS**

Course credit: 2 hours lecture. 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.

### **PTA 1221 PRINCIPLES OF PATIENT CARE LAB**

Course credit: 1 hour laboratory. Co-requisite: PTA 1222. Lab skills practice to apply concepts presented in PTA 1222.

### **PTA 1222 PRINCIPLES OF PATIENT CARE**

Course credit: 2 hours lecture. Co-requisite: PTA 1221. 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.

**PTA 1231  
THERAPEUTIC PROCEDURES I LAB**

Course credit: 1 hour laboratory. Co-requisite: PTA 1232. Lab skills practice to apply concepts presented in PTA 1232.

**PTA 1232  
THERAPEUTIC PROCEDURES I**

Course credit: 2 hours lecture. Co-requisite: PTA 1231. Students will learn physical therapy interventions using specific physical agents.

**PTA 1241  
PRINC OF PHYSICAL THERAPY LAB**

Co-requisite: PTA 1243 This lab will cover concepts and techniques presented in PTA 1243 Principles of Physical Therapy. Course credit: 1 hour laboratory.

**PTA 1243  
PRINCIPLES OF PHYSICAL THERAPY**

This course provides an introduction and orientation to the field of physical therapy. This course will introduce students to the theory, principles, and techniques of patient care. Students will be introduced to concepts of professional ethics and conduct in the delivery of patient care. Course credit: 3 hours lecture

**PTA 1251  
DATA COLLECTION IN PT LAB**

This lab will cover data collection and compilation as it relates to Physical Therapy. Course credit: 1 hour laboratory.

**PTA 2112  
THERAPEUTIC PROCEDURES II LAB**

Co-requisite: PTA 2113. Lab skills practice to apply concepts presented in PTA 2113.

**PTA 2113  
THERAPEUTIC PROCEDURES II**

Co-requisite: PTA 2112. This course is a continuation of physical therapy interventions using specific physical agents. Course credit: 2 hours lecture.

**PTA 2121  
NEUROLOGICAL DEV/MOTOR CONTROL**

This course will examine the principles of normal motor development across the lifespan from infancy to adulthood.

**PTA 2142  
THERAPEUTIC EX/CARD REHAB LAB**

Co-requisite: PTA 2143. Lab skills practice to apply to concepts presented in PTA 2143.

**PTA 2143  
THERAPEUTIC EXER/CARDIO REHAB**

Co-requisite: PTA 2142 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.

**PTA 2151  
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: 1 hour lecture.

**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.

**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 and/or licensed physical therapist assistant. Students will apply the knowledge and skills acquired from previous didactic learning as deemed appropriate by the clinical instructor.

**PTA 2211  
MUSCULOSKELETAL REHAB LAB**

Co-requisite(s): PTA 2212 Lab skills practice to apply concepts presented in PTA 2212.

**PTA 2212  
MUSCULOSKELETAL REHABILITATION**

Co-requisite(s): PTA 2211 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.

**PTA 2221  
NEUROLOGICAL REHAB LAB**

Lab skills practice to apply concepts presented in PTA 2222.

**PTA 2222  
NEUROLOGICAL REHABILITATION**

Co-Requisite(s): PTA 2221 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.

**PTA 2234  
CLINICAL EXPERIENCE II**

Pre-requisite: PTA 2164 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 and/or licensed physical therapist assistant. Students will apply the knowledge and skills acquired from previous didactic learning as deemed appropriate by the clinical instructor.

**PTA 2235  
CLINICAL EXPERIENCE III**

Pre-requisite: PTA 2234 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 and/or licensed physical therapist assistant. Students will apply the knowledge and skills acquired from previous didactic learning as deemed appropriate by the clinical instructor.

**PTA 2303  
DIRECTED STUDY**

Pre-requisite: Program Director approval An individualized course of study which includes topics related to physical therapy.

**PTA 2991  
SPECIAL TOPICS FOR PTA**

This course is designed to introduce students to specific areas in Physical Therapist Assistant. 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.

**PTA 2992  
SPECIAL TOPICS FOR PTA**

This course is designed to introduce students to specific areas in Physical Therapist Assistant. 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.

**PTA 2993**  
**SPECIAL TOPICS FOR PTA**

This course is designed to introduce students to specific areas in Physical Therapist Assistant. 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.

**PTA 2994**  
**SPECIAL TOPICS FOR PTA**

This course is designed to introduce students to specific areas in Physical Therapist Assistant. 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.

**PTA 2995**  
**SPECIAL TOPICS FOR PTA**

This course is designed to introduce students to specific areas in Physical Therapist Assistant. 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.

**PTA 2996**  
**SPECIAL TOPICS FOR PTA**

This course is designed to introduce students to specific areas in Physical Therapist Assistant. 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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### **PHYS 1114 APPLIED PHYSICS**

Offered: Fall A survey of selected topics in physics. The "scientific method", mechanics, fluid mechanics, heat, electricity, sound, light, and nuclear radiation will be studied. Note: May not be taken for credit after completion of PHYS 2014, PHYS 2024, PHYS 2114, or PHYS 2124. Lecture three hours, laboratory three hours. \$10 laboratory fee.

### **PHYS 2000 PHYSICS LABORATORY I**

Co-requisite: PHYS 2014 or PHYS 2114.

### **PHYS 2010 PHYSICS LABORATORY II**

Co-requisite: PHYS 2024 or PHYS 2124.

### **PHYS 2014 PHYSICAL PRINCIPLES I**

Offered: Fall and summer (on demand). Prerequisite: A grade of C or better in MATH 1113 or consent of the instructor. Co-requisite: PHYS 2000 Open to freshmen. A broad survey course emphasizing the understanding of the principles of physics necessary for students not specifically interested in advanced work in physics, chemistry or engineering. Topics include mechanics, heat, sound, wave motion, and fluid mechanics. Lecture three hours, laboratory three hours. \$10 laboratory fee.

### **PHYS 2024 PHYSICAL PRINCIPLES II**

Offered: Spring and summer (on demand). Prerequisite: PHYS 2014 or permission of instructor. Co-requisite: PHYS 2010 Continuation of PHYS 2014, covering electricity and magnetism, light, relativity, particle physics, and quantum effects. Lecture three hours, laboratory three hours. \$10 laboratory fee.

### **PHYS 2114 GENERAL PHYSICS I**

Offered: Fall Prerequisite or co-requisite: MATH 2924 Co-requisite: PHYS 2000 Introductory mechanics, heat and thermodynamics, kinetic theory, and sound. Lecture three hours, laboratory three hours. \$10 laboratory fee.

**PHYS 2124  
GENERAL PHYSICS II**

Offered: Spring Prerequisite: Permission of instructor; prerequisite or co-requisite, MATH 2934. Co-requisite: PHYS 2010 Introductory electricity and magnetism, wave motion, optics, and elementary quantum concepts. Lecture three hours, laboratory three hours. \$10 laboratory fee.

**PHYS 3001  
COLLOQUIUM**

Offered: On demand Prerequisite: Junior standing Attendance required of students interested in physics concentration. Discussion of advanced topics in current physical theory. Student presentations are required. Lecture discussion one hour.

**PHYS 3003  
OPTICS**

Offered: Spring even years Prerequisite: PHYS 2124 or consent of instructor. Introduction to geometrical and physical optics. Lecture two hours, laboratory two hours. \$10 laboratory fee.

**PHYS 3011  
COLLOQUIUM**

Offered: On demand Prerequisite: Junior standing Attendance required of students interested in physics concentration. Discussion of advanced topics in current physical theory. Student presentations are required. Lecture discussion one hour.

**PHYS 3023  
MECHANICS**

Offered: Fall even years Prerequisite: PHYS 2114 Co-requisite: MATH 3243 The conservation laws. Euler's angles. Lagrange's and Hamilton's equations.

**PHYS 3033  
RADIATION HEALTH PHYSICS**

Offered: On demand Prerequisites: PHSC 1013, PHYS 2014 or CHEM 2124. Theory and exercises in radiological monitoring techniques, neutron activation analysis, and environmental effects of nuclear reactors.

**PHYS 3042  
INTERMEDIATE PHYSICS LAB**

Offered: Fall odd years Prerequisites: PHYS 2114 and 2124 For physical science education majors. This course expands and refines essential content and laboratory skills through the modeling and experimental investigation of topics in both classical and modern physics. Note: Will not satisfy the physics elective requirement for students majoring in physical science. Laboratory three hours. \$10 laboratory fee.

**PHYS 3133**  
**THEORY/ELEC/MAGNETISM I**

Offered: Spring even years Prerequisite: PHYS 2124 Gauss's law, potential, Laplace's and Poisson's equations in rectangular, cylindrical, and spherical coordinates, inductance, capacitance, moving charges, dielectric phenomena, and Maxwell's equations.

**PHYS 3143**  
**ELECTRONICS**

Offered: On demand Prerequisite: PHYS 2124 or ELEG 2113 Amplifiers, power supplies, oscillators, trigger circuits, modulation, and demodulation. Intended to acquaint students with the working principles of the equipment they will use as a physicist. Lecture two hours, laboratory three hours. \$10 laboratory fee.

**PHYS 3153**  
**SOLID STATE PHYSICS**

Offered: Fall odd years Prerequisites: PHYS 2114, 2124; CHEM 2124. Co-requisite: MATH 3243 An introduction to the physics governing the crystalline state of matter. Modern theories describing lattice vibrations, energy bands, crystal binding, and optical properties are presented. These ideas are then applied to the understanding of technologically important areas such as superconductivity, doped semiconductors, ferroelectric materials, and photorefractivity.

**PHYS 3213**  
**MODERN PHYSICS**

Offered: Spring odd years Prerequisite: PHYS 2124 Introduction to relativity, wave-particle interactions, atomic structure, quantum mechanics, quantum theory of the hydrogen atom, statistical mechanics, nuclear structure, and elementary particles.

**PHYS 3991**  
**SP PROB/PHYSIC/ASTRONOMY**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to three credits depending on problem selected and effort made.

**PHYS 3992**  
**SP PROB/PHYSIC/ASTRONOMY**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to three credits depending on problem selected and effort made.

**PHYS 3993**  
**SP PROB/PHYSIC/ASTRONOMY**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to three credits depending on problem selected and effort made.



**PHYS 4001  
COLLOQUIUM**

Offered: On demand Prerequisite: Junior standing Attendance required of students interested in physics concentration. Discussion of advanced topics in current physical theory. Student presentations are required. Lecture discussion one hour.

**PHYS 4003  
THERMODYNAM/STAT MECH**

Offered: Fall even years Prerequisite: PHYS 2124; Prerequisite or co-requisite, MATH 3243. Applications of the three laws of thermodynamics, partition functions and transport phenomena.

**PHYS 4011  
COLLOQUIUM**

Offered: On demand Prerequisite: Junior standing Attendance required of students interested in physics concentration. Discussion of advanced topics in current physical theory. Student presentations are required. Lecture discussion one hour.

**PHYS 4013  
QUANTUM MECHANICS**

Offered: Fall odd years Prerequisites: PHYS 3213 and MATH 3243 A formal course in wave and matrix mechanics, designed to enable a student to set up and solve the elementary practical problems of quantum mechanics.

**PHYS 4113  
ADV PHYSICS LABORATORY**

Offered: Spring odd years Prerequisite: PHYS 3213 An application and investigation of advanced physical topics in the laboratory. Techniques of experimental [engineering] physics, such as computerized instrumentation, vacuum technology, optics, and electron optics will be applied to investigate various areas of advanced physics. Proper data reduction and analysis will be used to yield meaningful measurements. Intended as a culminating course, previous course work is applied to solve problems in the laboratory. Lecture 1 hour, Lab 5 hours. \$10 laboratory fee.

**PHYS 4213  
ADV TOPIC/PHYSIC/ASTRONO**

Offered: Fall even years Prerequisite: PHYS 2024 or PHYS 2124 Introduction to relativity, elementary particle physics, quantum dynamics, big-bang cosmology, atomic nucleosynthesis, and large scale structure and exotic states of matter such as black holes. Forces and interactions between the building blocks of matter in addition to cosmological models will be studied to gain insight into the complex universe we observe today. Lecture two hours, laboratory two hours. \$10 laboratory fee.

**PHYS 4951  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 4952**  
**UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 4953**  
**UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 4954**  
**UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 4991**  
**SP PROB/PHYSIC/ASTRONOMY**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 4992**  
**SP PROB/PHYSIC/ASTRONOMY**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 4993**  
**SP PROB/PHYSIC/ASTRONOMY**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 4994**  
**SP PROB/PHYSIC/ASTRONOMY**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to significant problems in physics and astronomy. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PHYS 6054**  
**CONCEPTS OF PHYSICS**

Prerequisite: Eight hours of physics or consent of instructor. A study of mechanics, simple machines, heat, sound, wave motion, electricity, magnetism, light, and modern physics. Special emphasis will be placed on those aspects of lecture and laboratory most germane to the teaching of science in grades 7-12. The course will consist of lecture, laboratory demonstrations, and laboratory exercises that can be done using equipment available in most area high schools. \$5 laboratory fee.

**PHYS 6881**  
**WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**PHYS 6882**  
**WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**PHYS 6883**  
**WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**PHYS 6884**  
**WORKSHOP:**

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.



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### **LPN 1101 VOC/LEGAL/ETHIC 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/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 NURS/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 NURS PRIN/SKILL 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 HEALTH/ILLNESS**

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

**LPN 1202  
NUR ADLT/MED SUR CON 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 MOTHERS/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 NUR PRIN/SKILL 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 LPN 1102. 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  
NUR ADLT/MED SUR CON II**

Prerequisite: LPN 1202. A continuation of Medical-Surgical Nursing. This course is the study of 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.

**LPN 2991  
SPECIAL TOPICS FOR LPN**

This course is designed to introduce students to specific areas in Practical Nursing. 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.

**LPN 2992  
SPECIAL TOPICS FOR LPN**

This course is designed to introduce students to specific areas in Practical Nursing. 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.

**LPN 2993  
SPECIAL TOPICS FOR LPN**

This course is designed to introduce students to specific areas in Practical Nursing. 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.

**LPN 2994  
SPECIAL TOPICS FOR LPN**

This course is designed to introduce students to specific areas in Practical Nursing. 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.

**LPN 2995**  
**SPECIAL TOPICS FOR LPN**

This course is designed to introduce students to specific areas in Practical Nursing. 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.

**LPN 2996**  
**SPECIAL TOPICS FOR LPN**

This course is designed to introduce students to specific areas in Practical Nursing. 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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### **PSY 2003 GENERAL PSYCHOLOGY**

An introduction to basic concepts in the study of behavior and to elementary principles of genetics, individual differences, motivation, emotion, personality, sensation, and perception.

### **PSY 2023 CONSUMER PSYCHOLOGY**

An introduction to the application of psychological principles to the study of the acts of individuals involved in obtaining and using economic goods and services, including the decision making processes that precede and determine these acts. Emphasis is placed on the role of perception, learning, personality, and attitude change.

### **PSY 2033 PSY OF ADJUSTMENT**

A course to provide a broad introduction to psychology as applied to human behavior. Focus is on the theoretical and experimental issues underlying the development and function of mental and emotional states. Emphasis is on normal functioning. \$20 testing fee.

### **PSY 2053 STATISTICS/BEHAV SCI**

Cross-listed: SOC 2053 Prerequisites: MATH 1003, or higher, and PSY 2003 or SOC 1003, or consent. An introduction to descriptive and inferential statistical methods pertinent to behavioral sciences research, including correlation, sampling distributions, t-tests, chi square and analysis of variance. Emphasis is upon the logical and applied aspects.

### **PSY 2063 RESEARCH DESIGN BEHAVIORAL SCI**

Cross-listed: SOC 2063 Prerequisite: PSY 2003 or SOC 1003 This course is designed to introduce you to the foundations of behavioral science, the logic of research design and the many possible modes of operation. This class focuses on teaching students in the behavioral sciences the basic principles that guide the research process, the elements of research design, how to read and critique research articles, and how to write a literature review for a research project.

### **PSY 2074 EXPERIMENTAL PSYCHOLOGY**

Prerequisites: PSY 2003 and PSY (SOC) 2053 A study of research methods in psychology. Emphasis is placed upon developing skills in data gathering and analysis, report writing and application of basic research strategies. Three hours lecture, two hours laboratory per week.



**PSY 2093  
HUMAN SEXUALITY**

A survey of the psychological themes associated with human sexuality. Topics include, but are not limited to: love and intimacy, sexual behaviors, sexual problems, gender, and sexual orientation.

**PSY 2133  
CROSS-CULTURAL PSYCHOLOGY**

This course is designed to link basic principles in cross-cultural developmental psychology and practical everyday events and questions as above ones together to help students cultivate a global and multicultural perspective on human behavior and gain an understanding of, and appreciation for, human development as it takes place in diverse cultural settings throughout the world. Experiential learning will be an important component of this course. Each student will have a chance to observe the behavior of a child/adolescent of different ethnic background from his or her own and develop their own cross-cultural viewpoint on human development.

**PSY 3003  
ABNORMAL PSYCHOLOGY**

Prerequisite: PSY 2003 Emphasis will be placed upon the etiology, symptoms, and treatment of the neuroses, psychoses, and personality disorders.

**PSY 3013  
PSYSOC/ASPECTS/DEATH/DYI**

Cross-listed: SOC 3013 Prerequisite: Upper division standing. This course studies the psychosocial and sociological aspects of death. The course will provide a basic insight into the dynamics surrounding death from the individual and societal level, its impact on survivors, and the effect death has on the living. Note: This course cannot be taken for credit after completion of PSY 4003.

**PSY 3033  
THE CRIMINAL MIND**

Cross-listed: CJ 3033 Prerequisite: PSY 2003 and CJ (SOC) 2003 or CJ (SOC) 2043 The course familiarizes students with various models, theories, and research regarding criminality from a psychological perspective. Genetic, constitutional, and biological factors will be emphasized, and some practical applications to dealing with criminals will be considered.

**PSY 3043  
ENVIRONMENTAL PSY**

Prerequisite: PSY 2003. This course is designed to provide students with information on the reciprocal relationship between humans and their environment, both natural and man-made. Major topics to be considered include (but are not limited to) the following: noise, pollution, temperature, density, architectural influences on human behavior, cognitive mapping, and crowding.

**PSY 3053  
PHYSIOLOGICAL PSY**

Prerequisites: PSY 2003, BIOL 2124, or BIOL 1014 An introduction to the physiological correlates of behavior, with emphasis upon the nervous system.

**PSY 3063  
DEVELOPMENTAL PSY I**

Prerequisite: PSY 2003 A study of how the maturation process affects an individual's physical and psychological state from conception through adolescence. Representative topics include (but not limited to) genetic influences, child cognitive processes, moral reasoning, and testing.

**PSY 3073  
PSYCHOLOGY OF LEARNING**

Prerequisite: Twelve hours of psychology. An introduction to the basic processes in learning and conditioning, including human and animal experimental findings. Emphasis will be placed on conditioning paradigms, reinforcement principles, memory functions and their use in behavior change.

**PSY 3083  
PSYCHOLOGY OF WOMEN**

The purpose of this course is to examine the lives of girls and women, including topics such as gender stereotypes, the development of gender roles, gender comparisons, women and work, love relationships, women's physical and mental health, violence against women, and women in later adulthood. Students who take this course should acquire an understanding of what it means to be female in North America.

**PSY 3093  
INDUSTRIAL PSYCHOLOGY**

Prerequisite: PSY 2003 A survey of psychological applications in industrial settings with emphasis upon selection, placement, and training techniques; organizational theory; and decision making processes.

**PSY 3133  
SELF AND SOCIETY**

Cross-listed: SOC 3133 Prerequisite: SOC 1003 or PSY 2003 A sociological survey of the ways in which social structure and personality interact. Topics typically covered are: socialization, attitudes and value formation and change, and group influences upon self-concept and self-esteem.

**PSY 3141  
SEMINAR IN PSYCHOLOGY**

A directed seminar in an area of psychology. The specific focus will depend upon research underway, student need, and current developments in the field of psychology. Note: May be repeated for credit if course content differs.

**PSY 3142  
SEMINAR IN PSYCHOLOGY**

A directed seminar in an area of psychology. The specific focus will depend upon research underway, student need, and current developments in the field of psychology. Note: May be repeated for credit if course content differs.

**PSY 3143**  
**SEMINAR IN PSYCHOLOGY**

A directed seminar in an area of psychology. The specific focus will depend upon research underway, student need, and current developments in the field of psychology. Note: May be repeated for credit if course content differs.

**PSY 3144**  
**SEMINAR IN PSYCHOLOGY**

A directed seminar in an area of psychology. The specific focus will depend upon research underway, student need, and current developments in the field of psychology. Note: May be repeated for credit if course content differs.

**PSY 3153**  
**THEORIES OF PERSONALITY**

Prerequisite: Six hours of psychology. An introduction to the various theoretical viewpoints of the normal personality structure and its development.

**PSY 3163**  
**DEVELOPMENTAL PSY II**

Prerequisite: PSY 2003 The study of how the maturation process affects an individual's physical and psychological state from adolescence through old age. Representative topics include (but not limited to) early, middle, and late adulthood biological, psychosocial and cognitive development.

**PSY 3173**  
**PSYCHOLOGY OF CONSCIOUSNESS**

Prerequisite: Upper division standing. An introduction to the various theoretical viewpoints as to the topic of consciousness and how it is investigated.

**PSY 3184**  
**ANIMAL BEHAVIOR**

Cross-listed: BIOL 3184 Offered: Spring of even years Prerequisite: sophomore standing in biology or psychology, or approval of instructor. An introductory course in animal behavior covering behavioral responses in primitive and advanced animals exposed to a wide range of environmental and social conditions. Laboratory exercises will include field as well as in-lab exercises and will focus on observational techniques and analyses of behavioral patterns in vertebrates and invertebrates. Lecture three hours, laboratory two hours. \$20 laboratory fee.

**PSY 3813**  
**LIFESPAN DEVELOPMENT**

Prerequisites: NURS major, PSY major with 90 earned hours, or instructor permission. A study of the processes of human development from conception through the lifespan. Research, application, and other considerations for nursing majors will be emphasized. Topics include, but are not limited to: how the maturation process affects an individual's physical and psychological state, genetic influences, child cognitive processes, moral reasoning, and early, middle, and late adulthood biological, psychosocial, and cognitive developmental processes.

**PSY 4003**  
**ADV RESEARCH METHOD/LAB PSY**

Prerequisites: PSY 2003, 2053, and 2063 A study of research methods in psychology. Emphasis is placed upon developing skills in data gathering and analysis, report writing and application of basic research strategies.

**PSY 4013**  
**HISTORY OF PSYCHOLOGY**

Prerequisite: PSY 2003 A survey of the developments in psychology from the ancient Greeks to the emergence of psychology as a modern experimental science.

**PSY 4033**  
**PSY TESTS/MEASUREMENTS**

Prerequisites: Twelve hours of psychology and PSY (SOC) 2053. Theory of psychological testing, statistical procedures, and training in administration, scoring and profiling of various tests of ability, achievement, interests, and personality. \$20 testing fee.

**PSY 4043**  
**SOCIAL PSYCHOLOGY**

Cross-listed: SOC 4043 Prerequisite: 9 hours of Sociology or permission. The study of how individuals are influenced by the actual or implied presence of other persons. Emphasis is placed on attitudes, social cognition, social influence, aggression, altruism, self and other perception.

**PSY 4053**  
**PSY OF PERCEPTION**

Prerequisite: Nine hours of psychology or consent. The study of general perceptual process. While the main senses will be covered, emphasis will be placed on visual functioning. The role of perception in organismic adaptation will be explored.

**PSY 4073**  
**COGNITIVE PSYCHOLOGY**

Prerequisite: 60 hours including 9 hours of psychology or permission of instructor. A study of the basic principles of mental processes, and their influence on behavior. Specifically, the course focuses on the conscious and unconscious processes involved in the acquisition, storage, transformation, and use of knowledge.

**PSY 4133**  
**PSYCHOPHARMACOLOGY**

Prerequisites: PSY 2003, 2053, or permission of instructor. An introduction to the field of psychopharmacology. Representative topics include (but are not limited to) neuronal structures and processes, neurochemicals and neurotransmission, and the biological basis and pharmacological treatment of neurodegenerative diseases and mental illness.

**PSY 4234  
FIELD PLACEMENT**

Prerequisites: PSY 2023 or 3093, and PSY(SOC) 2053 and PSY 2074 (or comparable), senior major, and mutual consent of advisor, supervising faculty and industry supervisor. This course is a jointly supervised field placement in an area business or industry. Emphasis is placed on integration of theory and classroom work with on the job experience. The placement is designed for students who are considering work in the area of industrial/organizational or consumer psychology. Note: The purchase of professional liability insurance is required.

**PSY 4951  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PSY 4952  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PSY 4953  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PSY 4954  
UNDERGRADUATE RESEARCH**

Offered: On demand Prerequisite: Departmental approval Advanced students carry out independent research activity relating to a significant problem in a major field of study. Supervised by faculty member. Formal report and presentation required. One to four credits depending on problem selected and effort made.

**PSY 4991  
SPEC PROB/PSY**

Prerequisites: Eighteen hours of psychology and prior permission of instructor. Independent work under individual guidance of a faculty member.

**PSY 4992  
SPEC PROB/PSY**

Prerequisites: Eighteen hours of psychology and prior permission of instructor. Independent work under individual guidance of a faculty member.

**PSY 4993**  
**SPEC PROB/PSY**

Prerequisites: Eighteen hours of psychology and prior permission of instructor. Independent work under individual guidance of a faculty member.

**PSY 4994**  
**SPEC PROB/PSY**

Prerequisites: Eighteen hours of psychology and prior permission of instructor. Independent work under individual guidance of a faculty member.

**PSY 5013**  
**HISTORY OF PSYCHOLOGY**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. A survey of the developments in psychology from the ancient Greeks to the emergence of psychology as a modern experimental science.

**PSY 5033**  
**PSY TEST/MEASUREMENTS**

Prerequisite: Graduate Standing in psychology or instructor and graduate director permission. Theory of psychological testing, statistical procedures and training in administration, scoring, and profiling of various tests of ability, achievement, interests, and personality. \$20 testing fee.

**PSY 5043**  
**SOCIAL PSYCHOLOGY**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. A study of the factors that influence the attitudes, behaviors, and cognition of the individual with a special emphasis on interactions among people.

**PSY 5053**  
**PSY OF PERCEPTION**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. The study of general perceptual processes. While the main senses will be covered, emphasis will be placed on visual functioning. The role of perception in organismic adaptation will be explored.

**PSY 5073**  
**COGNITIVE PSYCHOLOGY**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. A study of the basic principles of mental processes and their influences on behavior. Specifically, the course focuses on the conscious and unconscious processes involved in the acquisition, storage, transformation, and use of knowledge.

**PSY 6013  
ADVANCED STATISTICS**

Prerequisite: PSY 2053 or equivalent and graduate standing in psychology or instructor and graduate director permission. An advanced study of the concepts and techniques in descriptive and inferential statistics. Emphasis placed on the application of statistics and psychological research.

**PSY 6023  
RESEARCH DESIGN**

Prerequisite: PSY 6013 or equivalent and graduate standing in psychology or instructor and graduate director permission. An advanced treatment of the design and analysis of psychological research. Emphasis on the logical foundations of experimental design.

**PSY 6033  
PERSONALITY TESTING**

Prerequisite: Psy 6013 or equivalent and graduate standing in psychology or instructor and graduate director permission. Application of selected assessment devices. Emphasis on various objective tests including theoretical assumptions, scaling techniques, profile interpretation, and critical research topics.

**PSY 6043  
PSYCHOPATHOLOGY**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. Surveys classical and contemporary trends and theories of psychopathology; including methods, validity, and utility of classificatory schemes, properties of various disorders, as well as related assessment and treatment procedures.

**PSY 6053  
ADVANCED DEV PSY**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. Evaluation and assessment of the logical and empirical adequacies of modern theories of psychological development in relation to the maturation process of individuals.

**PSY 6063  
ADV PHYSIOLOGICAL PSY**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. An in-depth analysis of topics in physiological psychology. Emphasis is placed upon functional neuroanatomy of mammals to provide for understanding of systems for neural control of perception, orientation, motivation, learning, and complex processes.

**PSY 6073  
PERSONALITY DYNAM/THEOR**

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. An examination of selected writings and research of major personality theories.

**PSY 6083**  
**SEMINAR IN PSYCHOLOGY**

Prerequisites: PSY 6013, PSY 6023, 9 hours of PSY at the 5000-6000 level, and permission of the department. Concentrated analysis of a particular problem in psychology. Emphasis is placed upon the evaluation of current research and theory in the development of research ideas by the student. Topics to be determined by the Graduate Faculty Committee and the Director of the Graduate Program in Psychology.

**PSY 6091**  
**ADVANCED FIELD PLACEMENT**

Prerequisites: Successful completion of 30 graduate hours in psychology, 6 hours of thesis, and mutual consent of the faculty advisor, department, and industry supervisor. The course is a jointly supervised field placement in an area diagnostic or treatment facility. Emphasis is on an integration of theory, methods, and graduate training, with on-the-job experience. The placement is designed for students who are considering work in facilities which provide psychological and/ or social services. The purchase of Professional Liability Insurance is required.

**PSY 6092**  
**ADVANCED FIELD PLACEMENT**

Prerequisites: Successful completion of 30 graduate hours in psychology, 6 hours of thesis, and mutual consent of the faculty advisor, department, and industry supervisor. The course is a jointly supervised field placement in an area diagnostic or treatment facility. Emphasis is on an integration of theory, methods, and graduate training, with on-the-job experience. The placement is designed for students who are considering work in facilities which provide psychological and/ or social services. The purchase of Professional Liability Insurance is required.

**PSY 6093**  
**ADVANCED FIELD PLACEMENT**

Prerequisites: Successful completion of 30 graduate hours in psychology, 6 hours of thesis, and mutual consent of the faculty advisor, department, and industry supervisor. The course is a jointly supervised field placement in an area diagnostic or treatment facility. Emphasis is on an integration of theory, methods, and graduate training, with on-the-job experience. The placement is designed for students who are considering work in facilities which provide psychological and/ or social services. The purchase of Professional Liability Insurance is required.

**PSY 6094**  
**ADVANCED FIELD PLACEMENT**

Prerequisites: Successful completion of 30 graduate hours in psychology, 6 hours of thesis, and mutual consent of the faculty advisor, department, and industry supervisor. The course is a jointly supervised field placement in an area diagnostic or treatment facility. Emphasis is on an integration of theory, methods, and graduate training, with on-the-job experience. The placement is designed for students who are considering work in facilities which provide psychological and/ or social services. The purchase of Professional Liability Insurance is required.

**PSY 6095**  
**ADVANCED FIELD PLACEMENT**

Prerequisites: Successful completion of 30 graduate hours in psychology, 6 hours of thesis, and mutual consent of the faculty advisor, department, and industry supervisor. The course is a jointly supervised field placement in an area diagnostic or treatment facility. Emphasis is on an integration of theory, methods, and graduate training, with on-the-job experience. The placement is designed for students who are considering work in facilities which provide psychological and/ or social services. The purchase of Professional Liability Insurance is required.



**PSY 6096  
ADVANCED FIELD PLACEMENT**

Prerequisites: Successful completion of 30 graduate hours in psychology, 6 hours of thesis, and mutual consent of the faculty advisor, department, and industry supervisor. The course is a jointly supervised field placement in an area diagnostic or treatment facility. Emphasis is on an integration of theory, methods, and graduate training, with on-the-job experience. The placement is designed for students who are considering work in facilities which provide psychological and/ or social services. The purchase of Professional Liability Insurance is required.

**PSY 6881  
WORKSHOP**

Prerequisite: EDFD 6003 or permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**PSY 6882  
WORKSHOP**

Prerequisite: EDFD 6003 or permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**PSY 6883  
WORKSHOP**

Prerequisite: EDFD 6003 or permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

**PSY 6891  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**PSY 6892  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**PSY 6893  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**PSY 6894  
INDEPENDENT STUDY**

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

**PSY 6991  
PROJ/THESIS RES CONTINUATION**

This course allows students additional time to research and compose their capstone project/portfolio.

**PSY 6993  
THESIS RESEARCH**

Prerequisite: Graduate standing in psychology and permission of thesis advisor. Directed research on a thesis topic selected by the student in consultation with a supervising professor.

**PSY 6994  
THESIS RESEARCH**

Prerequisite: Graduate standing in psychology and permission of thesis advisor. Directed research on a thesis topic selected by the student in consultation with a supervising professor.

**PSY 6995  
THESIS RESEARCH**

Prerequisite: Graduate standing in psychology and permission of thesis advisor. Directed research on a thesis topic selected by the student in consultation with a supervising professor.

**PSY 6996  
THESIS RESEARCH**

Prerequisite: Graduate standing in psychology and permission of thesis advisor. Directed research on a thesis topic selected by the student in consultation with a supervising professor.