

AIR CONDITIONING AND REFRIGERATION

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

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

Curriculum in Air Conditioning/Refrigeration Technical Certificate

Instructor
Kenneth Beeler

**Air Conditioning
and
Refrigeration**

Course Number	Course Name	Semester Hours
Fall		
ACR 1205	Tubing and Piping	5
ACR 1301	Industrial Safety in Air Conditioning	1
ACR 1302	Basic Compression and Refrigeration	2
ACR 1403	Fundamentals of Electricity	3
COM 1102	Technical Communications	2
MTH 1102	Technical Mathematics	2
Total		15
Spring		
ACR 1222	Industrial Controls	2
ACR 1503	Electronic Components	3
ACR 1602	Schematics	2
ACR 1704	Heat Gain and Loss	4
ACR 1802	Residential Systems	2
BUS 1302	Introduction to Computers	2
Total		15
1st Summer		
ACR 1902	Air Conditioning Service	2
ACR 1904	Externship	4
Total		6

Curriculum in Air Conditioning/Refrigeration Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
ACR 1205	Tubing and Piping	5
ACR 1301	Industrial Safety in Air Conditioning	1
ACR 1302	Basic Compression and Refrigeration	2
ACR 1403	Fundamentals of Electricity	3
COMS 1003	Introduction to Computer Based Systems <i>or</i>	3
COMS 2003	Microcomputer Applications	3
ENGL 1013	Composition I	3
Total		17
2nd Semester		
ACR 1222	Industrial Controls	2
ACR 1503	Electronic Components	3
ACR 1602	Schematics	2
ACR 1704	Heat Gain and Loss	4
ENGL 1023	Composition II	3
Total		14
3rd Semester		
ACR 1802	Residential Systems	2
ACR 1902	Air Conditioning Service	2
ACR 2204	Industrial Refrigeration	4
MATH 0903	Intermediate Algebra	3
WLD 1402	Welding for Trades and Industry	2
Total		13
4th Semester		
	Social Sciences ¹	3
ACR 2304	Sheet Metal	4
ACR 2305	Boiler Operations	5
ACR 2904	Externship	4
Totals		16
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25		

APPLIED LABORATORY TECHNOLOGY

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

Instructor
Patricia McCreary

Curriculum in Applied Laboratory Technology Technical Certificate

**Applied
Laboratory
Technology**

Course Number	Course Name	Semester Hours
Fall		
ALT 1104	Introduction to Applied Microbiology	4
ALT 1112	Government Regulations	2
ALT 1122	Food Science	2
ALT 1132	Introduction to Quality Control	2
BUS 1302	Introduction to Computers	2
COM 1102	Technical Communications	2
MTH 2102	Technical Algebra I	2
Total		16
Spring		
ALT 1202	Introduction to Statistical Process Control	2
ALT 1203	Introduction to Chemistry	3
ALT 1212	Food Grades and Standards	2
ALT 1214	Applied Food and Environmental Microbiology	4
BUS 1053	Spreadsheets	3
MTH 2112	Technical Algebra II	2
Total		16
1st Summer		
ALT 1301	Food Sanitation	1
ALT 1311	Industrial Safety in ALT	1
ALT 1903	Externship	3
Total		5

Curriculum in Applied Laboratory Technology Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
ALT 1104	Introduction to Applied Microbiology	4
ALT 1112	Government Regulations	2
ALT 1122	Food Science	2
ALT 1132	Introduction to Quality Control	2
ENGL 1013	Composition I	3
MATH 1113	College Algebra	3
Total		16
2nd Semester		
ALT 1202	Introduction to Statistical Process Control	2
ALT 1203	Introduction to Chemistry	3
ALT 1212	Food Grades and Standards	2
ALT 1214	Applied Food/Environmental Microbiology	4
COMS 2003	Microcomputer Applications	3
Total		14
3rd Semester		
ALT 1301	Food Sanitation	1
ALT 1311	Industrial Safety in ALT	1
BIOL/PHSC 1004	Principles of Environmental Science	4
BUS 1043	Professional Communications	3
CHEM 2124	General Chemistry I	4
ENGL 1023	Composition II	3
Total		16
4th Semester		
	Social Sciences ¹	3
ALT 2904	Externship	4
BIOL 1014	Introduction to Biological Sciences	4
BUS 1053	Spreadsheets	3
Total		14

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25

AUTOMOTIVE SERVICE TECHNOLOGY

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

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

Instructor
Kenneth Warden III

Automotive
Service
Technology

Curriculum in Automotive Service Technology Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
AST 1105	Gasoline Engine Theory	5
AST 1206	Engine Performance	6
COM 1102	Technical Communications	2
MTH 1102	Technical Mathematics	2
Total		15
Spring		
AST 1103	Automotive Brake Systems	3
AST 1202	Introduction to Automotive Drivetrains	2
AST 1203	Automotive Climate Control	3
AST 1213	Automotive Chassis and Steering	3
BUS 1302	Introduction to Computers	2
ELT 1222	Basic Electronics for Trades and Industry	2
Total		15
1st Summer		
AST 1212	Advanced Automotive Drivetrains	2
AST 1904	Externship	4
Total		6

Curriculum in Automotive Service Technology Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
AST 1103	Automotive Brake System	3
AST 1105	Gasoline Engine Theory	5
COMS 1003	Introduction to Computer Based Systems <i>or</i>	3
COMS 2003	Microcomputer Applications	3
ENGL 1013	Composition I	3
Total		14
2nd Semester		
AST 1202	Introduction to Automotive Drivetrains	2
AST 1203	Automotive Climate Control	3
AST 1206	Engine Performance	6
ELT 1222	Basic Electronics for Trade and Industry	2
ENGL 1023	Composition II	3
Total		16
3rd Semester		
AST 1212	Advanced Automotive Drivetrains	2
AST 1213	Automotive Chassis and Steering	3
ELT 1104	DC Fundamentals	4
MATH 0903	Intermediate Algebra	3
WLD 1402	Welding for Trades and Industry	2
Total		14
4th Semester		
	Social Sciences ¹	3
AST 2103	Automotive Electricity/Electronics	3
AST 2206	Advanced Engine Performance	6
AST 2904	Externship	4
Total		16
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25		

BUSINESS TECHNOLOGY

The Business Technology program is designed to prepare students for careers in general secretarial and accounting employment positions such as administrative assistant, accounting clerk, secretary, data entry operator, or computer operator. Students will gain the technical knowledge and skills necessary to attain positions in their field. Given the necessary time on the job to build expertise and accumulate experience, students can take advantage of opportunities to advance.

The Business Technology – Medical program will prepare the student for entry-level employment as a health information manager by providing the basic knowledge, understanding, and skills required to transcribe medical dictation or code medical records with accuracy, clarity, and timeliness, while applying the principles of professional and ethical conduct.

Students may choose to complete requirements for the Associate of Applied Science in Business Technology degree with an emphasis in Business Technology or Business Technology - Medical.

Instructors:
Clinton Hall
Tekla Barr
Sherry Brown
Angela Medlock
Debra Wofford

**Business
Technology**

Curriculum in Business Technology Technical Certificate

Course Number	Course Name	Semester Hours
BUS 0903	Keyboarding w/ Lab	3
BUS 1003	Business English	3
BUS 1013	Word Processing I w/ Lab	3
BUS 1023	Business Mathematics	3
BUS 1033	Administrative Support Procedures	3
BUS 1043	Professional Communications	3
BUS 1053	Spreadsheets	3
BUS 1073	Accounting	3
BUS 1303	Introduction to Computers w/ Lab	3
BUS 2113	Word Processing II w/ Lab	3
BUS 2123	Computer Applications for Accounting	3
BUS 2133	Multimedia	3
	Total	36

**Curriculum in
Business Technology/Medical
Technical Certificate**

Course Number	Course Name	Semester Hours
BUS 1003	Business English	3
BUS 1013	Word Processing I	3
BUS 1043	Professional Communications	3
BUS 1073	Accounting	3
BUS 1303	Introduction to Computers	3
BUS 1563	Administrative Support Procedures	3
BUS 2213	Introduction to Human Anatomy	3
BUS 2223	Machine Transcription I	3
BUS 2233	Medical Terminology	3
BUS 2243	Disease Processes	3
BUS 2253	Medical Coding I	3
BUS 2263	Medical Coding II ¹	3
BUS 2273	Machine Transcription II ¹	3
Total		36

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

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

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1013	Word Processing I	3
BUS 1033	Administrative Support Procedures	3
COMS 1003	Introduction to Computer Based Systems	3
	<i>or</i>	
COMS 2003	Microcomputer Applications	3
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra	3
Total		15
2nd Semester		
BUS 1023	Business Mathematics	3
BUS 1053	Spreadsheets	3
BUS 1063	Legal Environment of Business	3

Curriculum in Business Technology Associate of Applied Science Degree *Continued*

BUS 1073	Accounting	3
ENGL 1023	Composition II	3
Total		15
3rd Semester		
BUS 1043	Professional Communications	3
BUS 2113	Word Processing II*	3
BUS 2123	Computer Applications for Accounting*	3
BUS 2133	Multimedia*	3
BUS 2143	Introduction to Management*	3
BUS 2213	Introduction to Human Anatomy**	3
BUS 2223	Machine Transcription**	3
BUS 2233	Medical Terminology**	3
BUS 2253	Medical Coding I**	3
Total		15
4th Semester		
	Social Sciences ¹	3
BUS 2153	Database Management*	3
BUS 2163	Desktop Publishing*	3
BUS 2173	Special Topics for Business Technology*	3
BUS 2243	Disease Processes**	3
BUS 2263	Medical Coding II**	3
BUS 2273	Medical Transcription II**	3
BUS 2903	Externship (or other approved elective)	3
Total		15

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25

* Business Technology option

** Medical Transcription option

COLLISION REPAIR TECHNOLOGY

Instructor
Stan Hatcher

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, and glass installation, as well as replacing damaged parts, color matching, and painting.

**Collision Repair
Technology**

Curriculum in Collision Repair Technology Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
BUS 1302	Introduction to Computers	2
CRT 1106	Basic Metal Repair	6
CRT 1202	Industrial Safety in Collision Repair Technology	2
CRT 1403	Painting	3
MTH 1102	Technical Mathematics	2
Total		15
Spring		
COM 1102	Technical Communications	2
CRT 1206	Body and Frame Alignment I	6
CRT 1505	Color Matching	5
ELT 1222	Basic Electronics in Trades and Industry	2
Total		15
1st Summer		
CRT 1302	Body and Frame Alignment II	2
CRT 1904	Externship	4
Total		6

Curriculum in Collision Repair Technology Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
COMS 1003	Introduction to Computer Based Systems <i>or</i>	3
COMS 2003	Microcomputer Applications	3
CRT 1106	Basic Metal Repair	6
CRT 1202	Industrial Safety in Collision Repair	2
ENGL 1013	Composition I	3
Total		14
2nd Semester		
CRT 1206	Body Frame Alignment I	6
CRT 1403	Painting	3
ELT 1222	Basic Electronics in Trades and Industry	2
ENGL 1023	Composition II	3
WLD 1402	Welding for Trades and Industry	2
Total		16
3rd Semester		
AST 1103	Automotive Brake Systems	3
AST 1213	Automotive Chassis and Steering	3
CRT 1302	Body & Frame Alignment II	2
ELT 1104	DC Fundamentals	4
MATH 0903	Intermediate Algebra	3
Total		15
4th Semester		
	Social Sciences ¹	3
AST 1203	Automotive Climate Control	3
CRT 1505	Color Matching	5
CRT 2904	Externship	4
Total		15
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25		

COMPUTER INFORMATION SYSTEMS

Instructor
William Nehus

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.

Computer
Information
Systems

Curriculum in Computer Information Systems Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
CIS 1103	Programming I	3
CIS 1113	Operating Systems I	3
CIS 1123	Networking I	3
CIS 1132	Microcomputer Applications	2
COM 1102	Technical Communications	2
MTH 2102	Technical Algebra I	2
Total		15
Spring		
CIS 1203	Programming II	3
CIS 1213	Operating Systems II	3
CIS 1223	Networking II	3
CIS 1233	System Analysis and Design	3
CIS 1243	HTML Programming	3
Total		15
1st Summer		
CIS 1303	PC Maintenance	3
CIS 1313	Externship	3
Total		6

Curriculum in Computer Information Systems Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
BUS 1063	Legal Environment of Business	3
CIS 1103	Programming I	3
CIS 1113	Operating Systems I	3
COMS 1003	Introduction to Computer Based Systems	3
	<i>or</i>	
COMS 2003	Microcomputer Applications	3
ENGL 1013	Composition I	3
	Total	15
2nd Semester		
	Social Sciences ¹	3
BUS 2153	Database Management	3
CIS 1123	Networking I	3
ENGL 1023	Composition II	3
MATH 0903	Intermediate Algebra	3
	Total	15
3rd Semester		
CIS 1203	Programming II	3
CIS 1213	Operating Systems II	3
CIS 1223	Networking II	3
CIS 1233	System Analysis and Design	3
CIS 1243	HTML Programming	3
	Total	15
4th Semester		
CIS 1303	PC Maintenance	3
CIS 2133	Web Page Design	3
CIS 2143	Help Desk Support	3
CIS 2153	Microsoft Programming	3
CIS 2903	Externship	3
	Total	15
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25		

COSMETOLOGY

Instructor
Cathy Fultz

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

Cosmetology

The Arkansas State Board of Cosmetology requires an individual to successfully complete 1500 clock hours in order to qualify for the state cosmetology licensing examination. In addition to admission requirements for this program, a student must submit two letters of recommendation, a copy of his or her Social Security card, and a \$10 money order made payable to the Arkansas State Board of Cosmetology for a temporary training permit.

Curriculum in Cosmetology Technical Certificate

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

Curriculum in Cosmetology Technical Certificate *Continued*

3rd Semester

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

Curriculum in Cosmetic Science Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
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1st Semester

COS 1101	Hygiene and Sanitation I	1
COS 1110	Hairdressing I w/Lab	10
COS 1121	Related Science I	1
COS 1131	Manicuring I	1
COS 1141	Cosmetic Therapy I	1
COS 1151	Salesmanship, Shop Management and Shop Department I	1
Total		15

2nd Semester

COS 1201	Hygiene and Sanitation II	1
COS 1210	Hairdressing II w/Lab	10
COS 1221	Related Science II	1
COS 1231	Manicuring II	1
COS 1241	Cosmetic Therapy II	1
COS 1251	Salesmanship, Shop Management and Shop Department II	1
Total		15

Curriculum in Cosmetic Science
Associate of Applied Science Degree
Continued

3rd Semester		
COS 2301	Hygiene and Sanitation III	1
COS 2310	Hairdressing III w/Lab	10
COS 2321	Related Science III	1
COS 2331	Manicuring III	1
COS 2341	Cosmetic Therapy III	1
COS 2351	Salesmanship, Shop Management and Shop Department III	1
ENGL 1013	Composition I	3
Total		18
4th Semester		
	Social Sciences ¹	3
COMS 1003	Introduction to Computer Based Systems or	3
COMS 2003	Microcomputer Applications	3
COS 2405	Theory and Practical Application	5
ENGL 1023	Composition II	3
MATH 0903	Intermediate Algebra	3
Total		17
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25		

ELECTRONIC TECHNOLOGY

Changes in technology have revolutionized the electronics field. The modern technician must keep up with the changes, along with the fundamental principles behind electronics. The Electronics Technology program is designed to provide students with the skills to understand theory, devices, circuits, and systems.

Automation Maintenance is comprehensive in its treatment of control devices and their applications, networking systems, motor circuits, mechanical devices, computer numerical control systems, basic control systems, and robotics.

Computer Technology teaches the student to solve problems with hardware, as well as software. Coursework taken will prepare the student to take the A+ and Networks+ exams.

Students may choose to complete requirements for the Associate of Applied Science in General Technology degree in Electronics with an emphasis in Automation Maintenance or Computer Technology.

Instructors
Ron Hutain
Jody Chrisman

**Electronic
Technology**

Curriculum in Electronic Technology Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
COM 1102	Technical Communications	2
ELT 1103	Basic Programming	3
ELT 1104	DC Fundamentals	4
ELT 1114	Introduction to Digital Logic	4
MTH 2102	Technical Algebra I	2
Total		15
2nd Semester		
COM 2102	Technical Writing and Speaking	2
ELT 1204	AC Fundamentals	4
ELT 1214	Semiconductors I	4
ELT 1223	Computer Operating Systems	3
MTH 2112	Technical Algebra II	2
Total		15
1st Summer		
ELT 2106	Semiconductors II	6
ELT 2231	Circuit Board Fabrication	1
Total		7

**Automation
Maintenance
Technology**

**Curriculum in Automation Maintenance Technology
Technical Certificate**

Course Number	Course Name	Semester Hours
First Semester		
ELT 2107	Basics of Industrial Automation	7
ELT 2115	Programmable Controllers	5
ELT 2123	Industrial Fluid Power	3
ELT 2131	Industrial Trade Techniques	1
Total		16
Second Semester		
ELT 2205	Microprocessor Systems	5
ELT 2215	Computer Troubleshooting	5
ELT 2231	Circuit Board Fabrication	1
ELT 2223	Computer Interfacing	3
MTH 3101	Technical Algebra III	1
Total		15
1st Summer		
ELT 2231	Circuit Board Fabrication	1
ELT 2905	Externship	5
Total		6

Curriculum in Electronics Technology Associate of Applied Science Degree

Students may choose an Automation Maintenance or Computer Technology emphasis

Course Number	Course Name	Semester Hours
1st Semester		
ELT 1103	Basic Programming	3
ELT 1104	DC Fundamentals	4
ELT 1114	Introduction to Digital Logic	4
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra	3
Total		17
2nd Semester		
COMS 1003	Introduction to Computer Based Systems	3
COMS 2003	Microcomputer Applications	3
ELT 1204	AC Fundamentals	4
ELT 1214	Semiconductors I	4
ELT 1223	Computer Operating Systems	3
ENGL 1023	Composition II	3
Total		17
3rd Semester		
ELT 2106	Semiconductors II	6
ELT 2107	Basics of Industrial Automation*	7
ELT 2123	Industrial Fluid Power*	3
ELT 2205	Microprocessor Systems**	5
ELT 2223	Computer Interfacing**	3
Total		16* or 14**
4th Semester		
	Social Sciences ¹	3
ELT 2115	Programmable Controllers*	5
ELT 2131	Industrial Trade Techniques*	3
ELT 2215	Computer Troubleshooting**	5
ELT 2231	Circuit Board Fabrication**	1
ELT 2905	Externship	5
Total		14

*Automation Maintenance option

**Computer Technology option

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25

PARAMEDIC/EMERGENCY MEDICAL SERVICES

Instructor
Lisa Robles
Susan Kontir

Paramedic
Emergency
Medical Services

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

The student must complete all courses in the previous semester with at least 80% to be eligible for the next level of the Paramedic program.

Curriculum in Paramedic/Emergency Medical Services Technical Certificate

Course Number	Course Name	Semester Hours
Prerequisites		
EMTP 1006	Basic Emergency Medical Service Training	6
EMTP 1103	Life Span Development	3
EMTP 1112	Pre-hospital Environment	2
EMTP 1122	Anatomy and Physiology	2
MTH 1102	Technical Mathematics	2
EMTP/LPN 1102	Pharmacology I	2
Total		17
Summer Term		
EMTP 1201	Patient Assessment/Pathophysiology of Shock	1
EMTP/LPN 1221	Pharmacology II	1
EMTP 1223	Clinical Practicum I	3
EMTP 1231	Lab I	1
Total		6
Fall		
EMTP 1302	Rhythm Recognition	2
EMTP 1304	Medical Emergencies I	4
EMTP 1306	Clinical Practicum II	6
EMTP 1331	Lab II	1
Total		13

**Curriculum in Paramedic/Emergency Medical
Services
Technical Certificate
*Continued***

Spring		
EMTP 1401	Lab III	1
EMTP 1402	Pre-hospital Environment II	2
EMTP 1412	Medical Emergencies II	2
EMTP 1413	Clinical Practicum III	3
EMTP 1424	Paramedic Internship I	4
EMTP 1431	Advanced Cardiac Life Support	1
EMTP 1451	Pre-hospital Trauma Life Support	1
EMTP 1461	Pediatric Advanced Life Support	1
	Total	15
Summer Term		
EMTP 1501	Assessment Based Management	1
EMTP 1504	Paramedic Internship II	4
	Total	5

Curriculum in Paramedic/Emergency Medical Services

Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
EMTP 1006	Basic Emergency Medical Service Training	6
EMTP 1103	Life Span Development	3
EMTP 1112	Pre-hospital Environment I	2
EMTP 1122	Anatomy and Physiology	2
MATH 0903	Intermediate Algebra	3
EMTP/LPN 1102	Pharmacology I	2
Total		18
2nd Semester		
COMS 1003	Introduction to Computer Based Systems or	3
COMS 2003	Microcomputer Applications	3
EMTP 1201	Patient Assessment/Pathophysiology of Shock	1
EMTP 1223	Clinical Practicum I	3
EMTP 1231	Lab I	1
EMTP 1302	Rhythm Recognition	2
EMTP 1304	Medical Emergencies I	4
ENGL 1013	Composition I	3
EMTP/LPN 1221	Pharmacology II	1
Total		18
3rd Semester		
EMTP 1306	Clinical Practicum II	6
EMTP 1331	Lab II	1
EMTP 1402	Pre-hospital Environment II	2
EMTP 1412	Medical Emergencies II	2
EMTP 1424	Paramedic Internship I	4
ENGL 1023	Composition II	3
Total		18

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

**4th
Semester**

	Social Sciences ¹	3
EMTP 1401	Lab III	1
EMTP 1413	Clinical Practicum III	3
EMTP 1431	Advanced Cardiac Life Support	1
EMTP 1451	Pre-hospital Trauma Life Support	1
EMTP 1461	Pediatric Advanced Life Support	1
EMTP 1501	Assessment Based Management	1
EMTP 1504	Paramedic Internship II	4
	Total	15

¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25

PRACTICAL NURSING

Instructors
 Debra Hines
 Ester Leonard
 Janet Mickens
 Annette Pearson
 Elizabeth Pruitt

Practical Nursing

Nursing practice combines the science of health and the art of caring. The Practical Nursing program integrates theory with clinical practice. The student must complete all courses in the previous semester with at least 80% in order to articulate to the next semester level, including clinical objectives. Clinical experiences will be obtained in the following health care service areas: adult health, maternal child, mental health, geriatrics, pediatrics and basic skills. Theoretical content is based on the concept of holism in which the physical, emotional, social, and spiritual well-being is considered. Area hospitals, clinics, nursing homes, mental health units, and pediatric and adolescent facilities are utilized for clinical experiences.

Students enrolled in the program may become members of the Arkansas Licensed Practical Nursing Association and take part in competitive events and education workshops. Workshops, conferences, and seminars are used to enhance the educational experience.

Upon successful completion of the program, the student will be eligible to write 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.

Curriculum in Practical Nursing Technical Certificate

Course Number	Course Name	Semester Hours
1st Semester		
LPN 1103	Body Structure and Function	3
LPN 1101	Vocational, Legal and Ethical Concepts	1
LPN 1111	Nursing of the Geriatric Patient	1
LPN 1121	Nutrition in Health and Illness	1
LPN/EMTP 1102	Pharmacology I	2
LPN 1114	Basic Nursing Principles and Skills I	4
LPN 1115	Clinical I	5
Total		17
2nd Semester		
LPN/EMTP 1221	Pharmacology II	1
LPN 1203	Nursing of Mothers and Infants	3
LPN 1211	Basic Nursing Principles and Skills II	1
LPN 1202	Nursing of Adults with Medical/Surgical Conditions I	2
LPN 1210	Clinical II	10
Totals		17

Curriculum in Practical Nursing Technical Certificate *Continued*

3rd Semester		
LPN 1303	Nursing of Adults with Medical/Surgical Condition II	3
LPN 1302	Nursing of Children	2
LPN 1322	Mental Health	2
LPN 1312	Clinical III	12
Totals		19

Minimum Requirements for Graduation with a Technical Certificate

Course	Theory Clock Hours
Vocational, Legal and Ethical Concepts	30 Hours
Body Structure and Function	90 Hours
Nursing of the Geriatric Patient	30 Hours
Nutrition in Health and Illness	30 Hours
Basic Nursing Principles and Skills	150 Hours
Nursing of Adult Patients with Medical and Surgical Conditions	150 Hours
Nursing of Children	60 Hours
Nursing of Mothers and Infants	90 Hours
Mental Health and Care of the Mentally Ill	60 Hours
Pharmacology	90 Hours
Theory/Clinical Hours	780/810 Hours
1554 Total Program Hours	

Curriculum in Allied Health Associate of Applied Science Degree

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
1st Semester		
ENGL 1013	Composition I	3
MATH 0903	Intermediate Algebra	3
COMS 1003	Introduction to Computer Based Systems or	3
COMS 2003	Microcomputer Applications	3
LPN 1101	Vocational, Legal and Ethical Concepts	1
LPN 1103	Body Structure and Function	3
LPN 1111	Nursing of the Geriatric Patient	1

Curriculum in Allied Health Associate of Applied Science Degree *Continued*

LPN/EMTP 1102	Pharmacology I	2
LPN 1121	Nutrition in Health and Illness	1
Total		17
2nd Semester		
ENGL 1023	Composition II	3
PSY 2003	General Psychology	3
LPN 1114	Basic Nursing Principles and Skills I	4
LPN 1115	Clinical I	5
LPN/EMTP 1221	Pharmacology II	1
Total		16
3rd Semester		
LPN 1202	Nursing of Adults with Medical/Surgical Conditions I	2
LPN 1203	Nursing of Mothers and Infants	3
LPN 1210	Clinical II	10
LPN 1211	Basic Nursing Principles and Skills II	1
LPN 1302	Nursing of Children	2
Total		18
4th Semester		
LPN 1303	Nursing of Adults with Medical/Surgical Conditions II	3
LPN 1312	Clinical III	12
LPN 1322	Mental Health	2

WELDING TECHNOLOGY

This program is designed to develop the skills necessary for entry into industrial and commercial welding equipment. Instruction is provided in arc, MIG, and TIG welding; 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.

Instructor
Richard Fraska

**Welding
Technology**

Curriculum in Welding Technology Technical Certificate

Course Number	Course Name	Semester Hours
Fall		
WLD 1103	Introduction to Thermal Cutting	3
WLD 1224	Introduction to Arc Welding	4
WLD 1302	Metallurgy	2
WLD 1202	Blueprint Reading	2
MTH 1102	Technical Mathematics	2
WLD 1212	Industrial Safety in Welding	2
Total		15
Spring		
WLD 1407	Position Welding	7
WLD 1503	Gas Metal Arc (MIG) Welding	3
WLD 1603	Gas Tungsten Arc (TIG) Welding	3
COM 1102	Technical Communications	2
Total		15
1st Summer		
WLD 1702	Weldment Test	2
WLD 1804	Certification Welding	4
Total		6

Curriculum in Welding Technology Associate of Applied Science Degree

Course Number	Course Name	Semester Hours
1st Semester		
COMS 1003	Introduction to Computer Based Systems	3
	<i>or</i>	
COMS 2003	Microcomputer Applications	3
WLD 1103	Introduction to Thermal Cutting	3
WLD 1202	Blueprint Reading	2
WLD 1224	Introduction to Arc Welding	4
WLD 1212	Industrial Safety in Welding	2
Total		14
2nd Semester		
ENGL 1013	Composition I	3
WLD 1302	Metallurgy	2
WLD 1407	Position Welding	7
WLD 1503	Gas Metal Arc (MIG) Welding	3
Total		15
3rd Semester		
ENGL 1023	Composition II	3
MATH 0903	Intermediate Algebra	3
WLD 1603	Gas Tungsten Arc (TIG) Welding	3
WLD 1702	Weldment Testing	2
WLD 1804	Certification Welding	4
Total		15
4th Semester		
	Social Sciences ¹	3
ACR 2304	Sheet Metal	4
ACR 2305	Boiler Operations	5
WLD 2904	Externship	4
Total		16
¹ See appropriate alternatives or substitutions in "General Education Requirements" on page 25		