

**TECHNICAL DEGREE PROGRAMS**

T E C H N I C A L   D E G R E E   P R O G R A M S

A S S O C I A T E   I N   A P P L I E D   S C I E N C E   P R O G R A M S

These programs are designed to prepare students for technical positions in business and industry. Upon the completion of a prescribed curriculum, an Associate in Applied Science degree (AAS) will be awarded to the graduate.

In order to receive an Associate in Applied Science (AAS) degree, it is necessary to complete a minimum of 64 semester hours including 15 semester hours of the general education core. The core must include 3 semester hours of course work in each of the following areas:

Written Communication: English Composition I (ENG 1113)  
Mathematics or Science: (MAT 1313 or higher OR any BIO, CHE, or PHY course)  
Social or Behavioral Science (Any ECO, GEO, PSC, PSY, or SOC course)  
Fine Arts (ART 1113, MUS 1113, SPT 2233)  
OR  
Humanities (Any HIS, MFL, or PHI course OR ENG 2223, 2233, 2323, 2333, 2423, 2433)  
Public Speaking: SPT 1113, SPT 2163

Students receiving an AAS degree will demonstrate competency in the basic use of computers by a high school transcript and/or computer usage through course work.

Although technical programs are designed for immediate employment upon completion, transfer credit toward a bachelor degree may be accepted from a four year institution in areas of technology and in industrial education. This should be verified by the senior institution.

PLEASE NOTE: Students applying for admission to allied health programs must do so between September 1 and May 1. Please refer to admission requirements in this catalog.

Below is a list of technical programs and locations.

<b>Program</b>	<b>Location</b>
Automotive Mechanics Technology(ATT)*	Poplarville
Aviation Maintenance Technology(APT)**	Stennis International Airport
Business and Office Technology	
Accounting Technology Option (BOT)	Poplarville
Medical Office Billing and Coding	
Technology Option (BOT)	Poplarville
Medical Office Technology Option (BOT)	Poplarville
Office Systems Technology (BOT)	Forrest County
	Center/Poplarville
Business and Marketing/Management Technology (MMT)	Poplarville
Computer Information Systems Technology	Poplarville
Computer Network Support Technology Option (CNT)	Poplarville
Computer Programming Technology Option (CPT)	Poplarville
Criminal Justice	Forrest County
	Center/Poplarville
Web Development Technology (WDT)	Poplarville
Computer Servicing Technology (CST)	Forrest County Center
Construction Management Technology (CON)*	Poplarville
Dental Hygiene Technology(DHT)	Forrest County Center
Drafting and Design Technology(DDT)	Poplarville
Early Childhood Education Technology(CDT)	Poplarville
Electrical Technology(ELT)*	Poplarville
Electronics Technology(EET)	Forrest County
	Center/Poplarville
Aerospace Electronics Technology Option (EET)	Poplarville
Biomedical Equipment Repair Technology Option(EET)	Forrest County
	Center/Poplarville
Heating, Air Conditioning, and Refrigeration Technology(ACT)*	Forrest County
	Center/Poplarville
Instrumentation and Control Technology(MFT)	Poplarville
Instrumentation Technology (INT)	Poplarville

Machine Tool Operation/Machine Shop Technology(MST)*	Poplarville
Medical Laboratory Technology (MLT)	Forrest County Center
Medical Radiologic Technology (RGT)	Forrest County Center
Occupational Therapy Assistant Technology(OTA)	Forrest County Center
Physical Therapist Assistant Technology(PTA)	Forrest County Center
Respiratory Care Practitioner Technology(RCT)	Forrest County Center
Surgical Technology (SUT)	Forrest County Center
Utility Lineman Technology (ULT)	Poplarville

\*These programs can be taken as a two year certificate program at the Poplarville campus.

\*\*This program can be taken as a two year certificate program at Stennis International Airport.

**AUTOMOTIVE MECHANICS TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Automotive Mechanics Technology program prepares individuals to engage in the servicing and maintenance of all types of automobiles. Instruction includes the diagnosis of malfunctions and repair of engines, fuel, electrical, cooling, brake systems, and drive train and suspension systems. Instruction is also provided in the adjustment and repair of individual components such as transmissions and fuel systems. The program is certified by the National Institute of Automotive Service Excellence.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
ENG 1113	English Composition I	3	
ATT 1213	Brakes	3	
ATT 1811	Introduction, Safety, and Employability	1	
ATT 1124	Basic Electrical/Electronic Systems	4	
ATT 2335	Steering & Suspension Systems	5	
	Mathematics/Science Elective		3
ATT 1715	Engine Repair		5
ATT 1424	Engine Performance I		4
ATT 1134	Advanced Electrical/Electronic Systems		4

**SOPHOMORE YEAR**

	Humanities/Fine Arts Elective	3	
ATT 2434	Engine Performance II	4	
ATT 2614	Heating and Air Conditioning	4	
ATT 2325	Automatic Transmissions/Transaxles	5	
	Approved Electives		4
SPT 1113	Public Speaking I		3
	Social/Behavioral Science Elective		3
ATT 2444	Engine Performance III		4
ATT 1314	Manual Drive Trains/Transaxles		4

**TOTAL CREDIT HOURS: 66**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**APPROVED ELECTIVES:**

ATT 291(1-3) Special Problem in Automotive Technology  
ATT 292(1-6) Supervised Work Experience in Automotive Mechanics Technology

**AVIATION MAINTENANCE TECHNOLOGY  
Associate in Applied Science\*  
Stennis International Airport**

The Aviation Maintenance Technology program is a two year program which offers FAA certified curriculum to prepare the students for a career as an Aviation Maintenance Technician. Upon completion of the program students receive a certificate of proficiency and are qualified to take the FAA examinations for certifications as an AMT.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
APT 1113	Aviation Applied Sciences	3	
APT 1123	Aviation Electricity I	3	
APT 1134	Aviation Materials and Processes	4	
APT 1143	Aircraft Servicing, Weight & Balance	3	
APT 1153	Maintenance Forms and Regulations	3	
APT 1162	Reciprocating Engine Theory		2
APT 1213	Reciprocating Engine Overhaul and Inspection		3
APT 1222	Turbine Engine Theory		2
APT 1233	Turbine Engine Overhaul & Inspection		3
APT 1254	Lubrication & Fuel Metering Systems		4
APT 1262	Induction, Cooling/Exhaust Systems		2
<b>SOPHOMORE YEAR</b>			
APT 1241	Powerplant Conformity and Airworthiness Inspection	1	
APT 2114	Aviation Electricity II	4	
APT 2123	Propellers/Powerplant Review	3	
APT 2135	Structures I	5	
APT 2143	Structures II	3	
APT 2212	Aircraft Controls		2
APT 2222	Aviation Electricity III		2
APT 2232	Hydraulic/Pneumatic Power Systems		2
APT 2243	Landing Gear/Protection Systems		3
APT 2251	Environmental Control		1
APT 2263	Aircraft Instrumentation Systems		3
APT 2271	Aircraft Fuel Systems		1
APT 2282	Airframe Inspection and Review		2

**TOTAL CREDIT HOURS: 64**

\*To receive an Associate in Applied Science Degree in Aviation Maintenance Technology a student must complete 15 additional hours of study, consisting of three (3) semester hours in each of the general education core areas. See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**BUSINESS AND OFFICE RELATED TECHNOLOGY**  
**Accounting Technology Option**  
**Associate in Applied Science**  
**Poplarville**

The Accounting Technology program prepares students for entry-level accounting positions in accounts payable, accounts receivable, payroll, and inventory. Upon successful completion, graduates should be prepared for accounting positions in business and industry, governmental agencies, and public accounting firms.

<b>FRESHMAN</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
BOT 1433	Business Accounting	3	
BOT 1133	Microcomputer Applications	3	
BOT 1113	Document Formatting and Production	3	
BOT 1313	Applied Business Mathematics	3	
BOT 1713	Mechanics of Communication	3	
BOT 1213	Professional Development	3	
BOT 1443	Advanced Accounting		3
BOT 1143	Word Processing		3
BOT 1123	Keyboard Skillbuilding		3
ENG 1113	English Composition I		3
BOT 1813	Electronic Spreadsheet		3
BOT 2813	Business Communication		3

**SOPHOMORE YEAR**

BOT 2413	Computerized Accounting	3	
_____	Mathematics/Science Elective	3	
SPT 1113	Public Speaking I	3	
BOT 2463	Payroll Accounting	3	
BOT 2323	Database Management	3	
BOT 2423	Income Tax Accounting		3
BOT 2833	Integrated Computer Applications		3
BOT 2133	Desktop Publishing		3
PSY 1513	General Psychology		3
_____	Humanities/Fine Arts Elective		3

**TOTAL CREDIT HOURS: 66**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**BUSINESS AND OFFICE AND RELATED TECHNOLOGY**  
**Medical Billing and Coding Technology Option**  
**Associate in Applied Science**  
**Poplarville**

The Medical Billing and Coding Technology program of study is designed to prepare a student for coding and other medical office-related position in hospitals, doctors' offices, health clinic, insurance companies, and other health-related organizations in the medical billing and coding field. Students are encouraged to take the CCA (Certified Coding Associate) exam upon completion of the program.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
BOT 1613	Medical Terminology I	3	
BOT 1133	Microcomputer Applications	3	
BOT 1113	Document Formatting and Production	3	
BOT 1313	Applied Business Mathematics	3	
BOT 1713	Mechanics of Communication	3	
	Humanities/Fine Arts Elect.	3	
BOT 1143	Word Processing		3
BOT 2813	Business Communication		3
BOT 1433	Business Accounting		3
ENG 1113	English Composition I		3
BOT 1623	Medical Office Terminology II		3
BOT 1413	Records Management		3

<b>SOPHOMORE YEAR</b>			
BOT 2523	Medical Machine Transcription I	3	
BOT 2743	Medical Office Concepts	3	
	Mathematics/Science Elect.	3	
BOT 2643	CPT Coding	3	
BOT 2653	ICD Coding	3	
BOT 2413	Computerized Accounting	3	
BOT 2663	Advanced Coding		3
BOT 2753	Medical Information Management		3
BOT 2673	Medical Insurance Billing		3
PSY 1513	General Psychology		3
SPT 1113	Public Speaking I		3
	Technical Elective		3

**TOTAL CREDIT HOURS: 72**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVE:**

- BOT 1813 Electronic Spreadsheet
- BOT 2323 Database Management
- BOT 2533 Medical Machine Transcription II

**BUSINESS AND OFFICE AND RELATED TECHNOLOGY**  
**Medical Office Technology Option**  
**Associate in Applied Science**  
**Poplarville**

The Medical Office Technology program of study is designed to prepare students to become proficient in the field of medical machine transcription. Student will also be prepared to work in office position in hospitals, doctors' offices, health clinics, insurance companies, and other health-related organizations. Students will develop skills in medical terminology, accounting, transcription, medical billing and coding and computer software applications.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
BOT 1113	Document Formatting and Production	3	
BOT 1133	Microcomputer Applications	3	
BOT 1313	Applied Business Mathematics	3	
BOT 1713	Mechanics of Communication	3	
BOT 1613	Medical Terminology I	3	
BOT 1413	Records Management	3	
BOT 1143	Word Processing		3
BOT 2813	Business Communication		3
BOT 1123	Keyboard Skillbuilding		3
BOT 1433	Business Accounting		3
ENG 1113	English Composition I		3
BOT 1623	Medical Office Terminology II		3

**SOPHOMORE YEAR**

BOT 2523	Medical Machine Transcription I	3	
BOT 2743	Medical Office Concepts	3	
	Mathematics/Science Elective	3	
BOT 2413	Computerized Accounting	3	
BOT 2643	CPT Coding	3	
BOT 2653	ICD Coding	3	
BOT 2533	Medical Machine Transcription II		3
BOT 2753	Medical Information Management		3
SPT 1113	Public Speaking I		3
BOT 2823	Communication Technology		3
	Arts/Humanities Elective		3
PSY 1513	General Psychology		3

**TOTAL CREDIT HOURS: 72**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**BUSINESS AND OFFICE AND RELATED TECHNOLOGY**  
**Office Systems Technology Option**  
**Associate in Applied Science**  
**Poplarville and Forrest County Center**

The Office Systems Technology program of study provides training in administrative office procedures, integrated computer applications, business financial systems, communication, and related technologies. The student will develop skills using a wide variety of microcomputer software applications including word processing, electronic spreadsheets, database management, and desktop publishing. The curriculum prepares a student for office positions such as administrative assistant, word processing operator, receptionist, general clerk or accounting clerk.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
BOT 1113	Document Formatting and Production	3	
BOT 1133	Microcomputer Applications	3	
BOT 1413	Records Management	3	
BOT 1213	Professional Development	3	
BOT 1313	Applied Business Mathematics	3	
BOT 1713	Mechanics of Communication	3	
BOT 2813	Business Communication		3
BOT 1143	Word Processing		3
BOT 1433	Business Accounting		3
ENG 1113	English Composition I		3
BOT 1123	Keyboard Skillbuilding		3
BOT 1813	Electronic Spreadsheets		3

**EXIT POINT FOR CERTIFICATE OF PROFICIENCY**

**SOPHOMORE YEAR**

	Mathematics/Science Elective	3	
BOT 2413	Computerized Accounting	3	
SPT 1113	Public Speaking I	3	
BOT 2323	Database Management	3	
BOT 2823	Communication Technology	3	
BOT 2133	Desktop Publishing	3	
BOT 2833	Integrated Computer Applications		3
BOT 2723	Administrative Office Procedures		3
BOT 1513	Machine Transcription		3
PSY 1513	General Psychology		3
	Humanities/Fine Arts Elective		3

**TOTAL CREDIT HOURS: 69**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**BUSINESS AND MARKETING MANAGEMENT TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Business Marketing Management Technology program is designed to provide specialized occupational instruction in all phases of marketing management including e-business, international marketing, and multimedia presentations. The program prepares students for careers as managers/supervisors in the marketing field. The curriculum includes a combination of class work and practical experience.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
ENG 1113	English Composition I	3	
MMT 1113	Principles of Marketing I	3	
MMT 1313	Personal Selling	3	
_____	Computer Related Elective	3	
_____	Social/Behavioral Science Elective	3	
FMT 2413	Visual Merchandising	3	
MMT 1413	Merchandising Mathematics		3
MMT 1123	Marketing Management		3
SPT 1113	Public Speaking I		3
_____	Accounting Elective		3
MMT 1323	Advertising		3

**SOPHOMORE YEAR**

MMT 2213	Principles of Management	3	
MMT 2423	Retail Management	3	
_____	Mathematics/Natural Science Elective	3	
MMT 2513	Entrepreneurship	3	
_____	Elective	3	
MMT 2243	Marketing Case Study	3	
MMT 2233	Human Resource Management		3
BAD 2413	Legal Environment of Business		3
MMT 2313	E-Commerce Marketing		3
_____	Elective		3
_____	Humanities Elective		3

**TOTAL CREDIT HOURS: 66**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

BOT 2413	Computerized Accounting
MMT 291(1-6)	Supervised Work Experience

**COMPUTER INFORMATION SYSTEMS TECHNOLOGY**  
**Computer Network Support Technology Option**  
**Associate in Applied Science**  
**Poplarville**

Computer Network Support Technology is a two-year program which offers training in telecommunications, network administration, and client/server systems. The curriculum enables students to achieve certifications from Cisco, Microsoft, Network+, and A+.

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CNT 1414	Fund. of Data Communication	4	
CPT 1214	Visual Basic Programming Language	4	
WDT 1123	Web Development Concepts	3	
CPT 1333	Operating Platforms	3	
	Technical Elective	3-4	
CNT 1524	Network Components		4
CNT 1624	Network Admin. Using Windows Server		4
ENG 1113	English Composition I		3
SPT 1113	Public Speaking I		3
BOT 2813	Business Communication or		
BOT 1213	Professional Development		3

**SOPHOMORE YEAR**

CNT 2644	Adv. Network Admin Using Windows Server	4	
CNT 2533	Network Planning and Design	3	
CNT 2423	System Maintenance	3	
CPT 2284	C Programming Language	4	
MAT 1313	College Algebra	3	
CNT 2544	Network Implementation		4
CPT 2424	Adv. C. Programming Language or		
CPT 2434	Adv. Visual Basic Programming Language		4
	Humanities/Fine Arts Elective		3
	Social/Behavioral Science Elective		3
	Approved Elective		3

**TOTAL CREDIT HOURS: 68/69**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVE:**

CPT 1323 Survey of Microcomputer Applications

CNT 2553 Network Security

Any instructor approved course from Computer Programming Technology or Electricity/Electronics Technology

**APPROVED ELECTIVE:**

Any instructor approved related technical or academic course

**Computer Programming Technology Option  
Associate in Applied Science  
Poplarville**

Computer Programming Technology is a two-year program of study that offers training in business applications development using microcomputers. Emphasis is placed on database development and web-based activities that can be found in a small to mid-size information systems department. Programming languages offered include Visual Basic, C and database programming using Microsoft Access.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CPT 1143	Programming Development Concepts	3	
CPT 1214	Visual Basic Programming Language	4	
CPT 1323	Survey of Microcomputer Applications	3	
CPT 1333	Operating Platforms	3	
WDT 1123	Web Development Concepts	3	
CPT 1353	Database Design Fundamentals		3
CNT 2423	Systems Maintenance		3
CPT 2434	Adv. Visual Basic Programming		4
ACC 1213	Principles of Accounting I or		
BOT 1433	Business Accounting		3
ENG 1113	English Composition I		3
<b>SOPHOMORE YEAR</b>			
CPT 2284	C Programming Language	4	
CPT 2244	Database Programming	4	
	Network Elective	4	
SPT 1113	Public Speaking I	3	
MAT 1313	College Algebra	3	
CPT 2354	Systems Analysis & Design		4
CPT 2424	Advanced C Programming Language		4
BOT 2813	Business Communications or		
BOT 1213	Professional Development		3
_____	Humanities/Fine Arts Elective		3
_____	Social/Behavior Science Elective		3

**TOTAL CREDIT HOURS: 67**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**NETWORK ELECTIVE:**

CNT 1414 Fundamentals of Data Communications  
CNT 1624 Network Administration Using Windows Server

**NOTE:** Students who have not successfully completed a Typing Course in high school or college will be required to take Keyboarding.

**Web Development Technology Option  
Associate in Applied Science  
Poplarville**

The Web Development Technology program of study will provide a student with the knowledge and skills necessary to obtain employment as a website development specialist. Instruction includes training in website design, e-commerce development, Internet programming and server administration. Students will also acquire skills using microcomputers, networks, and mid-range computer systems.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CPT 1333	Operating Platforms	3	
CNT 1414	Fundamentals of Data Communications	4	
CPT 1143	Programming Development Concepts	3	
WDT 1123	Web Development Concepts	3	
CPT 1214	Visual Basic Programming Language	4	
ENG 1113	English Composition I		3
WDT 1414	Web Design Applications		4
_____	Humanities/Fine Arts Elective		3
WDT 1314	Client-Side Programming		4
CPT 1353	Database Design Fundamentals		3
<b>SOPHOMORE YEAR</b>			
MAT 1313	College Algebra	3	
WDT 2214	Server-Side Programming I	4	
BOT 2813	Business Communications <b>or</b>		
BOT 1213	Professional Development	3	
WDT 2823	Web Server	3	
CPT 1323	Survey of Microcomputer Applications	3	
WDT 2224	Server-Side Programming II		4
WDT 2614	Website Development		4
WDT 2723	E-Commerce Strategies		3
SPT 1113	Public Speaking I		3
_____	Social/Behavior Science Elective		3

**TOTAL CREDIT HOURS: 67**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**Associate in Applied Science  
Forrest County Center**

Computer Servicing Technology students will receive classroom and laboratory instruction for the repair and operation of current personal computer and related systems. Electronic components, networking systems, operating platforms, utilities, applications and other areas are integrated into the program to provide the fundamental skills for a well-rounded curriculum. Students will be prepared to install, operate, maintain, service, and diagnose computer systems that are found in business and industry.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CST 1114	Electronics for Computer Servicing	4	
CST 1333	Operating Platforms	3	
CPT 1113	Fundamentals of Microcomputer Applications	3	
ENG 1113	English Composition I	3	
	Mathematics/Science Elective	3	
CST 1123	Basic Computer Systems		3
CNT 1513	Web Development Concepts		3
CST 1413	Fundamentals of Data Communication		3
	Technical/Related Academic Elective		3
	Humanities/Fine Arts Elective		3

**SOPHOMORE YEAR**

CST 2113	Computer Servicing Lab I	3	
CST 1523	Network Components	3	
EET 1214	Digital Electronics	4	
CST 2913	Special Projects	3	
	Social/Behavioral Science Elective	3	
CST 2123	Computer Servicing Lab II		3
CST 2134	Diagnosing and Troubleshooting		4
EET 1324	Microprocessors		4
SPT 1113	Public Speaking I		3
	Technical Elective		3

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

EET 1123	AC Circuits
EET 1713	Drafting for Electronic/Electrical Technology
EET 2514	Interfacing Techniques
CST 2923	Supervised Work Experience

**CONSTRUCTION MANAGEMENT TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Construction Management Technology program is designed to prepare technicians for employment in businesses and firms within the construction industry in mid-level management operations as estimators, material specialists, planner, project managers, layout specialists or other construction operations. Students also learn how to identify safety hazards and notify proper authorities. Through an internship program, students have the opportunity to work in a position related to construction management.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CON 1113	Survey of Modern Construction	3	
CON 1213	Construction Materials	3	
	Mathematics/Science Elective	3	
DDT 1114	Fundamentals of Drafting	4	
	Computer Science Elective	3	
CON 1222	Plans and Document Interpretation		2
CON 1233	Construction Systems I		3
DDT 1313	Principles of CAD		3
DDT 1413	Elementary Surveying		3
ENG 1113	English Composition I		3

**SUMMER TERM**

CON 261(3-6)	Internship in Construction Management Technology	3-6
CON 262(3-6)	Internship in Construction Management Technology	3-6

**SOPHOMORE YEAR**

CON 2313	Construction Layout	3	
CON 2123	Construction Cost Estimation	3	
SPT 1113	Public Speaking I	3	
CON 2233	Construction Systems II	3	
	Humanities/Fine Arts Elective	3	
CON 2113	Construction Job Site Management		3
CON 2413	Construction Safety Standards		3
	Behavioral/Social Science Elective		3
CON 2513	Leadership and Organization		3
	Technical Elective		3

**TOTAL CREDIT HOURS: 66/72**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

ACC 1213	Principles of Accounting
BAD 2413	Legal Environment of Business
CON 2243	Constructions Systems III
CON 261(3-6)	Internship in Construction Engineering Technology
CON 291(1-3)	Special Problem in Construction Engineering Technology
CON 292(1-6)	Supervised Work Experience in Construction Engineering Technology
DDT 2253	Statics and Strength of Materials
MMT 2513	Entrepreneurship
MMT 2213	Principles of Management
MMT 2233	Human Resource Management

**COMPUTER SCIENCE ELECTIVES:**

CPT 1113	Fundamentals of Microcomputer Applications
CSC 1113	Computer Concepts

**CRIMINAL JUSTICE**  
**Associate in Applied Science**  
**Poplarville and Forrest County Center**

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CRJ 1313	Introduction to Criminal Justice	3	
	Criminal Justice Elective	3	
ENG 1113	English Composition I	3	
MFL 1213	Spanish I	3	
MAT 1313	College Algebra	3	
CRJ 1363	Introduction to Corrections		3
CRJ 1383	Criminology		3
SPT 1113	Public Speaking I		3
	Criminal Justice Elective		3
BIO 1134	General Biology I and Laboratory		4

**SOPHOMORE YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CRJ 2213	Traffic Law	3	
CRJ 2313	Criminal Justice Elective	3	
	Social/Behavioral Science Elective	3	
CRJ 2333	Criminal Investigations	3	
	Humanities/Fine Arts Elective	3	
	History Elective	3	
CRJ 2323	Criminal Law		3
	Criminal Justice Elective		3
CRJ 2413	Administration of Criminal Justice		3
CRJ 2513	Law Enforcement and the Juvenile		3
	Criminal Justice Elective		3

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

CRJ 1323	Police Administration and Organization
CRJ 1353	Internship in Criminal Justice
CRJ 1373	Introduction to Homeland Security
CRJ 2363	Criminal Court Practice
CRJ 2713	Foundations of Terrorism

**Credit may be given for completion of Mississippi State Law Enforcement academy for up to 9 semester hours.**

**DENTAL HYGIENE TECHNOLOGY**  
**Associate in Applied Science**  
**Forrest County Center**

The dental hygienist, working under the direct supervision of a licensed dentist, provides oral health care to patients by scaling and polishing teeth, takes and processes dental x-rays, applies caries preventive agents (fluoride and sealants) and provides advice and instruction concerning oral hygiene. Most hygienists are employed in private dental offices. Others are employed in public schools, state and local health clinics, hospitals, industry, and voluntary health agencies.

**PRE-PROGRAM CURRICULUM**

ENG 1113	English Composition I (3)
ENG 1123	English Composition II (3)
BIO 2923	Microbiology (3)
BIO 2921	Microbiology Laboratory (1)
BIO 1513	Principles of Anatomy and Physiology I Lecture (3)
BIO 1511	Principles of Anatomy and Physiology I Lab (1)
BIO 1523	Principles of Anatomy and Physiology II Lecture (3)
BIO 1521	Principles of Anatomy and Physiology II Lab (1)
CHE 1314	Principles of Chemistry I & Lab or (CHE 1214 General Chemistry I & Lab) (4)
PSY 1513	General Psychology (3)
SOC 2113	Introduction to Sociology (3)
SPT 1113	Public Speaking I (3)
FCS 1253	Nutrition (3)
MAT 1313	College Algebra (3)

TOTAL HOURS: 37

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
DHT 1116	Fundamentals of Dental Hygiene	6	
DHT 1212	Dental Anatomy	2	
DHT 1314	Dental Radiology	4	
DHT 1911	Seminar I	1	
DHT 1222	Head and Neck Anatomy	2	
DHT 1415	Dental Hygiene Clinic I		5
DHT 1232	Oral Histology and Embryology		2
DHT 1513	Periodontics		3
DHT 2612	Dental Materials		2
DHT 1921	Seminar II		1

**SOPHOMORE YEAR**

DHT 2426	Dental Hygiene Clinic II	6	
DHT 2233	General Oral Pathology	3	
DHT 2712	Dental Pharmacology	2	
DHT 2931	Seminar III	1	
DHT 2436	Dental Hygiene Clinic III		6
DHT 2813	Community Dental Health		3
DHT 2922	Dental Ethics/Law		2
DHT 2941	Seminar IV		1

**TOTAL CREDIT HOURS (included within program): 52**  
**(total including prerequisites): 89**

**DRAFTING AND DESIGN TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Drafting and Design Technology program is designed to provide specialized occupational instruction in all phases of drafting and design. Students will obtain skills and knowledge related to several fields of the drafting and design industry. A major emphasis is placed upon the CAD software that is used by the majority of the drafting industry. Basic applications in Geographic Information Systems (GIS) and Global Positioning Systems (GPS) are included in the curriculum.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
DDT 1114	Fundamentals of Drafting	4	
DDT 1313	Principles of CAD	3	
ENG 1113	English Composition I	3	
BOT 1133	Microcomputer Applications	3	
	Mathematics/Science Elective	3	
DDT 2523	Pipe Drafting		3
DDT 1323	Intermediate CAD		3
SPT 1113	Public Speaking I		3
DDT 1123	Computational Methods for Drafting		3
	Humanities/Fine Art Elective		3

**SOPHOMORE YEAR**

DDT 1613	Architectural Design I	3	
DDT 2343	Advanced CAD	3	
DDT 2233	Structural, Civil, & Pipe Drafting	3	
DDT 2243	Cost Estimating	3	
DDT 1133	Machine Drafting I	3	
	Soc./Behavioral Science Elect.	3	
DDT 1413	Elementary Surveying		3
DDT 2163	Machine Drafting II		3
DDT 2623	Architectural Design II		3
DDT 2913	Special Projects		3
GIT 2123	Fundamentals of GIS		3

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

DDT 1213	Construction Materials
DDT 2353	CAD Management
DDT 2253	Statics & Strengths of Materials
GIT 2113	Database Construction and Maintenance
GIT 1253	Cartography and Computer Map Reading
GIT 2273	Remote Sensing
GIT 2133	Principles of Image Processing

**EARLY CHILDHOOD EDUCATION TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Early Childhood Education Technology provides preparation for a professional career in the discipline of Early Childhood Education spanning a variety of career options. Instructional programs include classroom instruction and supervised laboratory/collaborative center or work experience. Students will develop competencies which enable them to provide services, teach, and guide young children as related to various child development professions. Jobs are available in public, private or parochial Early Childhood Education centers including commercial, industrial, institutional centers; and recreational and hospital childcare centers. See special admission requirements for this program in the Admissions section in this catalog.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
CDT 1113	Early Childhood Profession	3	
CDT 1314	Creative Arts for Young Children	4	
CDT 1214	Child Development I	4	
CDT 1343	Child Health and Safety	3	
ENG 1113	English Composition I	3	
CDT 1224	Child Development II		4
CDT 1713	Language Literacy Development for Young Children		3
CDT 2714	Social Studies, Mathematics and Science for Preschool Children		4
ENG 1123	English Composition II		3
_____	Humanities/Fine Arts Elective		3

**SOPHOMORE YEAR**

CDT 2233	Guiding Social & Emotional Behavior	3	
CDT 1513	Nutrition for Young Children	3	
CDT 2915	Student Teaching I	5	
CDT 2613	Methods and Materials Mathematics/Science Elective	3	
CDT 2925	Student Teaching II		5
CDT 2413	Atypical Child Development		3
CDT 2813	Administration of Programs for Young Children		3
SPT 1113	Public Speaking I		3
_____	Social/Behavioral Science Elective		3

**TOTAL CREDIT HOURS: 68**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**ELECTRICAL TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Electrical Technology program prepares individuals to install, operate, maintain, and repair electrically-energized systems such as residential, commercial, and industrial electric wiring, and DC/AC motors, controls, and electrical distribution panels. Instruction in the use of test equipment is included.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st. Sem.</i>	<i>2nd Sem.</i>
ELT 1192	Fundamentals of Electricity	2	
ELT 1144	AC and DC Circuits	4	
ELT 1274	Switching Circuits for Residential, Commercial and Industrial Application		4
ELT 2613	Programmable Logic Controllers		3
ELT 2424	Solid State Motor Control		4
ELT 1263	Blueprint Reading/Planning the Residential Installation		3
ELT 1124	Commercial Industrial Wiring		4
ELT 1213	Electrical Power		3
_____	Technical Elective		3

<b>SOPHOMORE YEAR</b>			
ELT 1334	Solid State Devices	4	
ELT 1413	Motor Control Systems	3	
ELT 1223	Motor Maintenance and Troubleshooting	3	
ELT 1114	Residential/Light Commercial Wiring	4	
ELT 1253	Branch Circuits and Service Entrance Calculations	3	
SPT 1113	Public Speaking I		3
ENG 1113	English Composition I		3
_____	Social/Behavioral Science Elective		3
_____	Humanities/Fine Arts Elective		3
_____	Mathematics/Science Elective		3
_____	Computer Elective (Technical)		3

**TOTAL CREDIT HOURS: 65**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

ELT 2913	Special Project
ELT 292(1-6)	Supervised Work Experience
CPT 1113	Introduction to Computers*
ELT 1133	Introduction to the National Electric Code
EET 1713	Drafting for Electronic/Electrical Technology
EET 2423	Fundamentals of Fiber Optics

**ELECTRONICS TECHNOLOGY**  
**Associate in Applied Science**  
**Forrest County Center**

Electronics Technology prepares individuals to support electrical engineers and other professionals in the design, development, and testing of electrical circuits, devices and systems. Included is instruction in model and prototype development and testing; systems analysis and integration, including design, development of corrective and preventive maintenance techniques; application of engineering data; and the preparation of reports and test results.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
EET 1192	Fundamentals of Electronics	2	
EET 1114	DC Circuits	4	
EET 1214	Digital Circuits	4	
EET 1613	Computer Fundamentals for Electronics	3	
ENG 1113	English Composition I	3	
EET 1123	AC Circuits		3
EET 1334	Solid State Devices		4
EET 1324	Microprocessors		4
EET 1713	Drafting for Electronics		3
_____	Mathematics/Science Elective		3

<b>SOPHOMORE YEAR</b>			
EET 2334	Linear Integrated Circuits	4	
EET 2514	Interfacing Techniques	4	
CST 2113	Computer Servicing Lab I	3	
EET 2911	Special Projects	1	
_____	Humanities/Fine Arts Elective	3	
EET 2414	Electronics Communication		4
_____	Social/Behavioral Science Elective		3
EET 2912	Special Projects		2
SPT 1113	Public Speaking I		3
_____	Technical Elective		4

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**ELECTRONICS TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

Electronics Technology prepares individuals to support electrical engineers and other professionals in the design, development, and testing of electrical circuits, devices and systems. Included is instruction in model and prototype development and testing; systems analysis and integration, including design, development of corrective and preventive maintenance techniques; application of engineering data; and the preparation of reports and test results.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
EET 1113	DC Circuits	3	
EET 1333	Solid State Devices and Circuits	3	
EET 1123	AC Circuits	3	
ENG 1113	English Composition I	3	
_____	Technical Elective	3	
_____	Computer Related Elective		3
EET 1213	Digital Electronics		3
_____	Mathematics/Science Elective		3
SPT 1113	Public Speaking I		3
_____	Technical Elective		6

**SOPHOMORE YEAR**

EET 2333	Linear Integrated Circuits	3	
EET 1323	Microprocessors	3	
_____	Technical Elective	4	
_____	Humanities/Fine Arts Elective	3	
EET 2413	Electronics Communication		3
_____	Social/Behavioral Science Elective		3
_____	Technical Electives		12

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

CST 2123	Computer Servicing Lab II
EET 1313	Mathematics for Electronics
EET 1182	Introduction to Photonics
EET 1193	Fundamentals of Electronics
EET 1713	Drafting for Electronic/Electrical Technology
EET 2111	CET Practical
EET 2423	Fundamentals of Fiber Optics
EET 291(1-3)	Special Project
EET 292(1-6)	Supervised Work Experience in Electronics Technology
ELT 1413	Motor Control Systems
ELT 2424	Solid State Motor Control
ELT 2613	Programmable Logic Controllers
INT 1214	Fluid Power
MFT 1123	Electrical Wiring for Instrumentation Technology
ROT 1213	Industrial Hydraulics
ROT 1113	Fundamentals of Robotics

**ELECTRONICS TECHNOLOGY**  
**Aerospace Electronics Technology Option**  
**Associate in Applied Science**  
**Poplarville**

The Aerospace Electronics Technology program provides individuals with a comprehensive education that will enable them to establish productive careers in aerospace and related industries. Specialized training in aerospace topics and technical training in fundamental engineering principles are provided through classroom and laboratory instruction.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
EET 1101	Introduction to Aerospace Technology	1	
EET 1193	Fundamentals of Electronics	3	
EET 1113	DC Circuits	3	
EET 1213	Digital Electronics	3	
DDT 1114	Fundamentals of Drafting	4	
MAT 1313	College Algebra	3	
EET 1333	Solid State Devices and Circuits		3
EET 1123	AC Circuits		3
ENG 1113	English Composition I		3
MST 1113	Introduction to Machinshop Technology		3
ELT 1413	Motor Control		3
SPT 1113	Public Speaking I		3

**SOPHOMORE YEAR**

INT 2214	Calibration and Measurement Principles	4	
ELT 1124	Commercial and Industrial Wiring	4	
ELT 2613	Programmable Logic Controllers	3	
_____	Humanities/Fine Arts Elective	3	
EET 2333	Linear Integrated Circuits		3
INT 1214	Fluid Power		4
INT 2114	Control Systems		4
_____	Social/Behavioral Science Elective		3
_____	Technical Elective		3

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**ELECTRONICS TECHNOLOGY**  
**Biomedical Equipment Repair Technology**  
**Associate in Applied Science**  
**Forrest County Center**

Biomedical Equipment Repair Technology is an instructional and field service program that provides students with technical knowledge and skills necessary for gaining employment as a Biomedical Equipment Technician. These persons are technical specialists with broad-based electro-medical skills who are familiar with electronic repair of hospital health care equipment. They are field technicians who can install, set up, troubleshoot, integrate, program, test, operate, and repair systems and components. Upon completion of the program, the student will be qualified to apply for the Biomedical Equipment Technician Certification Examination.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
BIO 1513	Principles of Anatomy and Physiology I	3	
BIO 1511	Principles of Anatomy and Physiology I Lab	1	
EET 1192	Fundamentals of Electronics	2	
EET 1114	DC Circuits	4	
EET 1311	Orientation to Biomedical Careers	1	
EET 1214	Digital Circuits	4	
ENG 1113	English Composition I	3	
BIO 1523	Principles of Anatomy and Physiology II		3
BIO 1521	Principles of Anatomy and Physiology II Lab		1
EET 1123	AC Circuits		3
SPT 1113	Public Speaking I		3
EET 1334	Solid State Devices		4
	Social/Behavioral Science Elective		3
EET 1311	Orientation to Biomedical Careers		1

**SOPHOMORE YEAR**

EET 2334	Linear Integrated Circuits	4	
EET 2514	Interfacing Techniques	4	
	Humanities/Fine Arts Elective	3	
EET 211(3-6)	Supervised Work Experience in Biomedical Equipment Repair I	3-6	
EET 2414	Electronic Communication		4
EET 222(3-6)	Supervised Work Experience in Biomedical Equipment Repair II		3-6
EET 1324	Microprocessors		4
	Mathematics/Science Elective		3

**TOTAL CREDIT HOURS: 64/70**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page of this catalog for the required academic general core requirements.

**ELECTRONICS TECHNOLOGY**  
**Biomedical Equipment Repair Technology**  
**Associate in Applied Science**  
**Poplarville**

Biomedical Equipment Repair Technology is an instructional and field service program that provides students with technical knowledge and skills necessary for gaining employment as a Biomedical Equipment Technician. These persons are technical specialists with broad-based electro-medical skills who are familiar with electronic repair of hospital health care equipment. They are field technicians who can install, set up, troubleshoot, integrate, program, test, operate, and repair systems and components. Upon completion of the program, the student will be qualified to apply for the Biomedical Equipment Technician Certification Examination.

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
BIO 1513	Principles of Anatomy and Physiology I	3	
BIO 1511	Principles of Anatomy and Physiology I Lab	1	
EET 1113	DC Circuits	3	
	Mathematics/Science Elective	3	
EET 1311	Orientation to Biomedical Careers	1	
ENG 1113	English Composition I	3	
EET 1123	AC Circuits		3
SPT 1113	Public Speaking I		3
EET 1213	Digital Electronics		3
	Social/Behavioral Science Elective		3
BIO 1523	Principles of Anatomy and Physiology II		3
BIO 1521	Principles of Anatomy and Physiology II Lab		1

**SOPHOMORE YEAR**

EET 1333	Solid State Devices & Circuits	3	
EET 1323	Microprocessors	3	
	Humanities/Fine Arts Elective	3	
	Technical Elective	7	
EET 211(3-6)	Supervised Work Experience in Biomedical Equip. Repair I		3-6
	Technical Elective		7
EET 2333	Linear Integrated Circuits		3
EET 222(3-6)	Supervised Work Experience in Biomedical Equip. Repair II		3-6
EET 2423	Fundamentals of Fiber Optics		3

**TOTAL CREDIT HOURS: 65/71**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

CPT 1113	Fundamentals of Microcomputer Applications
EET 1313	Mathematics for Electronics
EET 1193	Fundamentals of Electronics
EET 1613	Computer Fundamentals of Electronics/Electricity
EET 2413	Electronics Communication
EET 2514	Interfacing Techniques
EET 291(1-3)	Special Project
INT 1214	Fluid Power

**HEATING, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY**  
**Associate in Applied Science**  
**Forrest County Center**

The Heating, Air Conditioning and Refrigeration Technology program prepares individuals to work in engineering departments or private firms installing, maintaining, and operating small or medium air conditioning, heating and refrigeration systems. Instruction prepares individuals to work in a commercial setting performing special tasks relating to designing ductwork, assembly, installation, servicing, operation, and maintenance of heating and cooling systems according to the standards of the American Society of Heating, Refrigeration, and Air Conditioning Contractors of America (ACCA), and Air Conditioning Refrigeration Institute (ARI). Instruction includes air conditioning, heating, and refrigeration devices; equipment, techniques, and systems; and maintenance and operation of these systems.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
ACT 1124	Basic Compression Refrigeration	4	
ACT 1713	Electricity for Heating, Ventilation, Air Conditioning and Refrigeration	3	
	Technical Elective	3	
ACT 1133	Tools and Piping	3	
ENG 1113	English Composition I	3	
ACT 1313	Refrigeration System Components		3
ACT 1812	Professional Service Procedures		2
ACT 1213	Controls		3
	Technical Elective		3
	Mathematics/Science Elective		3

<b>SOPHOMORE YEAR</b>			
ACT 2414	Air Conditioning I	4	
ACT 2513	Heating Systems	3	
ACT 2624	Heat Load and Air Properties	4	
SPT 1113	Public Speaking I	3	
	Humanities/Fine Arts Elective	3	
ACT 2424	Air Conditioning II		4
ACT 2324	Commercial Refrigeration		4
ACT 2433	Refrigerant, Retrofit and Regulations		3
	Social/Behavioral Science Elective		3
	Technical Elective		3

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

ACT 291(1-3)	Special Project in Heating and AC Technology
ACT 292(1-6)	Supervised Work Experience in Heating and AC Technology
BOT 1433	Business Accounting
CPT 1113	Fundamentals of Microcomputer Applications
DDT 1114	Fundamentals of Drafting
EET 1192	Fundamentals of Electronics
ELT 1213	Electrical Power
ELT 1223	Motor Maintenance and Troubleshooting
ELT 2613	Programmable Logic Controllers
IMM 1132	Industrial Maintenance Blueprint Reading
MST 1413	Blueprint Reading
	Welding Elective
WBL 191(1-3)	Work-Based Learning I
WBL 192(1-3)	Work-Based Learning II
WBL 193(1-3)	Work-Based Learning III
WBL 291(1-3)	Work-Based Learning IV
WBL 292(1-3)	Work-Based Learning V
WBL 293(1-3)	Work-Based Learning VI

**HEATING, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Heating, Air Conditioning and Refrigeration Technology program prepares individuals to work in engineering departments or private firms installing, maintaining, and operating small or medium air conditioning, heating and refrigeration systems. Instruction prepares individuals to work in a commercial setting performing special tasks relating to designing ductwork, assembly, installation, servicing, operation, and maintenance of heating and cooling systems according to the standards of the American Society of Heating, Refrigeration, and Air Conditioning Contractors of America (ACCA), and Air Conditioning Refrigeration Institute (ARI). Instruction includes air conditioning, heating, and refrigeration devices; equipment, techniques, and systems; and maintenance and operation of these systems.

<b>FRESHMAN YEAR</b>		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
ACT 1124	Basic Compression Refrigeration	4	
ACT 1713	Electricity for Heating, Ventilation, Air Conditioning and Refrigeration	3	
	Technical Elective	3	
ACT 1133	Tools and Piping	3	
ENG 1113	English Composition I	3	
ACT 1313	Refrigeration System Components		3
ACT 1812	Professional Service Procedures		2
ACT 1213	Controls		3
	Technical Elective		3
	Mathematics/Science Elective		3

**SOPHOMORE YEAR**

ACT 2414	Air Conditioning I	4	
ACT 2513	Heating Systems	3	
ACT 2624	Heat Load and Air Properties	4	
SPT 1113	Public Speaking I	3	
	Humanities/Fine Arts Elective	3	
ACT 2424	Air Conditioning II		4
ACT 2324	Commercial Refrigeration		4
ACT 2433	Refrigerant, Retrofit and Regulations		3
	Social/Behavioral Science Elective		3
	Technical Elective		3

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

ACT 291(1-3)	Special Project in Heating and AC Technology
ACT 292(1-6)	Supervised Work Experience in Heating and AC Technology
CPT 1113	Fundamentals of Microcomputer Applications
DDT 1114	Fundamentals of Drafting
ELT 1213	Electrical Power
ELT 1223	Motor Maintenance and Troubleshooting

**INSTRUMENTATION TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Instrumentation Technology program provides students with technical knowledge and skills necessary for gaining employment as an instrumentation systems technician. The program focuses on preparing students to understand, calibrate, and install industrial instrumentation, to align and tune controllers and adjust valves.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
MFT 1113	Introduction to Automation and Controls	3	
EET 1113	DC Circuits	3	
_____	Mathematics/Science Elective	3	
_____	Computer Related Elective	3	
_____	Technical Elective	3	
EET 1123	AC Circuits		3
EET 1333	Solid State Devices & Circuits		3
ELT 1413	Motor Control Systems		3
INT 1214	Fluid Power		4
ENG 1113	English Composition I		3

**SOPHOMORE YEAR**

EET 1213	Digital Electronics	3	
ELT 2613	Programmable Logic Controllers	3	
INT 2114	Control Systems	4	
_____	Technical Elective	3	
_____	Social/Behavioral Elective	3	
MFT 1123	Electrical Wiring for Automation and Control Technology		3
SPT 1113	Public Speaking I		3
_____	Humanities/Fine Arts Elective		3
_____	Technical Electives		9

**TOTAL CREDIT HOURS: 65**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVES:**

EET 2333	Linear Integrated Circuits
ELT 2424	Solid State Motor Control
ELT 2623	Advanced Programmable Logic Controllers
INT 1113	Fundamentals of Instrumentation
INT 2124	Control Systems II
INT 2214	Calibration and Measurement Principles
MFT 2614	Flexible Manufacturing Systems
MFT 291(1-3)	Special Project in Instrumentation Technology
MFT 292(1-6)	Supervised Work Experience in Instrumentation Technology

**MACHINE TOOL OPERATION/MACHINE SHOP TECHNOLOGY**  
**Associate in Applied Science**  
**Poplarville**

The Machine Tool Operation/Machine Shop Technology program prepares individuals to shape metal parts on machines such as lathes, grinders, drill presses, and milling machines. Instruction in making computations related to work dimensions, testing, feeds, and speeds of machines; using precision measuring instruments such as layout tools, micrometers, and gauges; machining and heat-treating various metals; and laying out machine parts is also included. Also included is instruction in the operation and maintenance of computerized equipment.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
MST 1313	Machine Tool Mathematics	3	
MST 1413	Blueprint Reading	3	
MST 1115	Power Machinery I	5	
ENG 1113	English Composition I	3	
_____	Technical Elective	3	
MST 1125	Power Machinery II		5
MST 1613	Precision Layout		3
MST 1423	Advanced Blueprint Reading		3
_____	Mathematics/Science Elective		3

**SOPHOMORE YEAR**

_____	Technical Elective	3	
MST 2135	Power Machinery III	5	
MST 2714	Computer Numerical Control Operations I	4	
_____	Humanities/Fine Arts Elective	3	
MST 2144	Power Machinery IV		4
MST 2725	Computer Numerical Control Operations II		5
MST 2813	Metallurgy		3
SPT 1113	Public Speaking I		3
_____	Social/Behavioral Science Elective		3

**TOTAL CREDIT HOURS: 64**

**ACADEMIC ELECTIVES:**

See Technical Degree Programs on page 116 of this catalog for the required academic general core requirements.

**TECHNICAL ELECTIVE:**

CPT 1113	Fundamentals of Microcomputer Applications
DDT 1114	Fundamentals of Drafting
DDT 1313	Principles of CAD
MST 1113	Introduction to Machine Shop Technology
MST 291(1-3)	Special Problem in Machine Tool Technology
MST 292(1-6)	Supervised Work Experience in Machine Tool Technology

**Associate in Applied Science  
Forrest County Center**

The medical laboratory technician is a mid-level worker who functions under the supervision of a medical technologist or laboratory supervisor. Responsibilities include performance of a wide range of tests and laboratory procedures ranging from the collection of blood specimens to microscopic examinations of body fluids. Employment opportunities are available in hospitals, independent laboratories, physicians' offices, clinics, public health agencies, pharmaceutical firms, and research.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>		
		<i>1st Sem.</i>	<i>2nd Sem.</i>	<i>3rd Sem.</i>
MLT 1111	Fundamentals of MLT/Phlebotomy	2		
ENG 1113	English Composition I	3		
	Chemistry Elective with Lab	4		
MAT 1313	College Algebra	3		
BIO 1513	Principles of Anatomy and Physiology I Lecture	3		
BIO 1511	Principles of Anatomy and Physiology I Lab	1		
MLT 1212	Urinalysis/Body Fluids	2		
MLT 1313	Hematology I		4	
BIO 1523	Principles of Anatomy and Physiology II Lecture		3	
BIO 1521	Principles of Anatomy and Physiology II Lab		1	
MLT 2512	Parasitology		2	
MLT 1413	Immunology/Serology		3	
BIO 2923	Microbiology			3
BIO 2921	Microbiology Lab			1
SPT 1113	Public Speaking I			3
	Social/Behavioral Science Elective			3
	Humanities/Fine Arts Elective			3

**SOPHOMORE YEAR**

MLT 2614	Pathogenic Microbiology	5		
MLT 2424	Immunoematology	4		
MLT 1515	Clinical Chemistry	5		
MLT 1324	Hematology II	4		
MLT 2916	Clinical Practice I		6	
MLT 2926	Clinical Practice II		6	
MLT 2936	Clinical Practice III		6	
MLT 2724	Certification Fundamentals for MLT			4
MLT 2712	Seminar			2

**TOTAL CREDIT HOURS: 86**

**Associate in Applied Science  
Forrest County Center**

Radiographers record images of human anatomy. Registered technologists are employed in hospitals, medical clinics, imaging centers, and physicians' offices. Specialty areas of access for registered technologists are CT, MRI, special procedures, mammography, ultrasound, nuclear medicine, radiation therapy, surgery radiography, administration, and education.

**FRESHMAN YEAR**

**SEMESTER HOURS**  
*1st Sem.    2nd Sem.    3rd Sem.*

**Summer Session**

BIO 1514	Principles of Anatomy and Physiology I Lecture and Lab	4
BIO 1524	Principles of Anatomy and Physiology II Lecture and Lab	4
RGT 1312	Principles of Radiation Protection	2
RGT 1223	Patient Care and Radiography	3

**Fall Semester**

RGT 1115	Clinical Education I	5
RGT 1213	Fundamentals of Radiography	3
RGT 1413	Radiation Exposure I	3
RGT 1513	Radiographic Procedures I	3
_____	Mathematics/Science Elective	3

**Spring Semester**

RGT 1125	Clinical Education II	5
RGT 1423	Radiation Exposure II	3
RGT 1523	Radiographic Procedures II	3
RGT 1613	Physics of Imaging Equipment	3
_____	Written Communication Elective	3

**SOPHOMORE YEAR**

**Summer Session**

RGT 1139	Clinical Education III	9
Fall Semester		
RGT 2132	Social and legal Responsibilities	2
RGT 2147	Clinical Education IV	7
RGT 2532	Radiographic Procedures III	2
RGT 2921	Radiographic Pathology	1
_____	Social/Behavioral Science Elective	3
_____	Humanities/Fine Arts Elective	3

**Spring Semester**

RGT 2157	Clinical Education V	7
RGT 2542	Radiographic Procedures IV	2
RGT 2911	Radiation Biology	1
RGT 2933	Certification Fundamentals	3
_____	Speech Elective	3

**TOTAL CREDIT HOURS: 90**

**Associate in Applied Science  
Forrest County Center**

Occupational Therapy Assistants are health professionals who assist individuals in overcoming challenges in performing tasks of daily living. These challenges may include physical, psychological, developmental or social conditions. Employment opportunities are available in hospitals, rehabilitation units, outpatient clinics, home health, school systems, mental health centers, private clinics and other community settings. The United States Department of Labor estimates a 25% increase in Occupational Therapy Assistant jobs nationally through 2015, which it further states much faster growth than average for all occupations generally.

Prerequisites: (students may be admitted to program prior to completion of prerequisites.)  
BIO 1514/1524 or BIO 2514-2524 - Principles of Anatomy and Physiology I & II or Anatomy and Physiology I & II; this prerequisite will count for the required Mathematics, Science academic elective.

**FRESHMAN YEAR**

**SEMESTER HOURS**

*1st Sem.    2nd Sem.    3rd Sem.    4th Sem.*

**Fall Semester**

OTA 1113	Foundations of Occupational Therapy	3
OTA 1213	Pathology of Psychiatric Conditions	3
OTA 1121	Medical Terminology	1
OTA 1423	Occupational Therapy Skills I	3
OTA 1132	Therapeutic Anatomy	2
OTA 1513	Group Process	3
_____	Social/Behavioral Science Elective	3

**Spring Semester**

OTA 1315	Kinesiology	5
OTA 1413	Therapeutic Media	3
OTA 1223	Pathology of Physical Disability Conditions	3
OTA 1433	Occupational Therapy Skills II	3

**Summer Session**

OTA 1913	Level I Fieldwork: Psychosocial/Specialty	3
OTA 1233	Pathology of Developmental Conditions	3
OTA 1242	Pathology of Orthopedic Conditions	2
OTA 2812	Healthcare systems	2
_____	Written Communications Elective	3

**SOPHOMORE YEAR**

**Fall Semester**

OTA 2443	Occupational Therapy Skills III	3
OTA 2714	Concepts in Occupational Therapy	3
OTA 2935	Level I Fieldwork: Physical Disabilities/Pediatrics/Specialty	5
OTA 2961	Occupational Therapy Transitions I	1
_____	Fine Arts/Humanities Elective	3
_____	Speech Elective	3

**Spring Semester**

OTA 2946	Level II Fieldwork A	6 (8wks)
OTA 2956	Level II Fieldwork B	6 (8wks)
OTA 2971	Occupational Therapy Transitions II	1

**TOTAL CREDIT HOURS: Prerequisites (8) + other academics (12) + OTA courses (65) = 85**

\*It is strongly recommended, but not required, that the student take some of the elective courses prior to entering the program in order to lessen the course load while in the program.

**Associate in Applied Science  
Forrest County Center**

The physical therapist assistant, under the supervision of the physical therapist, works with patients of all ages with a wide spectrum of neurological, musculoskeletal, and cardiopulmonary problems resulting from illness and accidents. Physical therapist assistants work in hospitals, rehabilitation centers, nursing homes, home health agencies, public schools, universities, industry, education, and in private offices or clinics.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>		
		<i>1st Sem.</i>	<i>2nd Sem.</i>	<i>Summer</i>
PTA 1123	Fundamental Concepts of Physical Therapy	3		
ENG 1113	English Composition I	3		
MAT 1313	College Algebra	3		
BIO 1513	Principles of Anatomy and Physiology I Lecture	3		
BIO 1511	Principles of Anatomy and Physiology I Lab	1		
PSY 1513	General Psychology	3		
PTA 1213	PTA Fundamental Skills		3	
BIO 1523	Principles of Anatomy and Physiology II Lecture		3	
BIO 1521	Principles of Anatomy and Physiology II Lab		1	
PTA 1315	Kinesiology		5	
SPT 1113	Public Speaking I		3	
PTA 2233	Electrotherapy		3	
PTA 1224	Therapeutic Modalities			4
PTA 2414	Clinical Education I			4

**SOPHOMORE YEAR**

PTA 2111	Clinical Skills	1		
PTA 1325	Therapeutic Exercise I	5		
PTA 2335	Therapeutic Exercise II	5		
PTA 2513	Medical Conditions and Related Pathology	3		
	Humanities/Fine Arts Elective	3		
PTA 2523	Physical Therapy Seminar		3	
PTA 2424	Clinical Education II		4	
PTA 2434	Clinical Education III		4	
PTA 2444	Clinical Education IV		4	

**TOTAL CREDIT HOURS: 74**

**RECOMMENDED ELECTIVES:**

CSC 1113	Computer Concepts
HPR 1213	Personal and Community Health
HPR 2213	First Aid
LLS 1423	College Study Skills
ENG 1123	English Composition II
EPY 2533	Human Growth and Development
PTA 1111	Health Care Experience I
PTA 1151	Health Care Experience II
PTA 1132	PTA Practicum I
PTA 1143	PTA Practicum II

Forrest County Center

The respiratory care practitioner is an allied health professional employed in the treatment, management, control, and care of patients with deficiencies and abnormalities associated with the respiratory system. They serve as a consultant to the physician in the treatment and management of cardio-pulmonary abnormalities and work with nurses in coordinating and implementing an overall patient care strategy. Employment opportunities are available in hospitals, home health agencies, nursing homes, and other health care settings.

PRE-PROGRAM CURRICULUM

- ENG 1113 English Composition I (3)
- BIO 1513 Principles of Anatomy and Physiology I Lecture (3)
- BIO 1511 Principles of Anatomy and Physiology I Lab(1)
- BIO 1523 Principles of Anatomy and Physiology II Lecture (3)
- BIO 1521 Principles of Anatomy and Physiology II Lab (1)
- Behavioral/Social Science Elective (3)
- SPT 1113 Public Speaking I (3)
- MAT 1313 College Algebra (3)
- Humanities Elective (3)

TOTAL HOURS: 23

FRESHMAN YEAR

SEMESTER HOURS

		1st Sem.	2nd Sem.	3rd Sem.
RCT 1113	Practicum	3		
RCT 1223	Patient Assessment and Planning	3		
RCT 1214	Respiratory Care Science	4		
RCT 1322	Pulmonary Function Testing (PFT)	2		
RCT 1416	Respiratory Care Practitioner I		6	
RCT 1516	Clinical Practice I		6	
RCT 1613	Respiratory Care Pharmacology		3	

SOPHOMORE YEAR

RCT 1313	Cardiopulmonary A & P	3		
RCT 1424	Respiratory Care Practitioner II	4		
RCT 1523	Clinical Practice II	3		
RCT 2333	Cardiopulmonary Pathology	3		
RCT 2435	Respiratory Care Practitioner III		5	
RCT 2534	Clinical Practice III		4	
RCT 2613	Neonatal/Pediatrics Management		3	
RCT 2548	Clinical IV			8
RCT 2714	Respiratory Care Seminar			4

TOTAL CREDIT HOURS (included within program): 64  
(total including prerequisites): 87

Surgical technologists work as part of the surgical team preparing the operating rooms, equipment, and supplies for use during surgery. The technologist assists the surgeon during actual operating procedures. Employment opportunities are available in hospital operating and delivery rooms, surgeons' offices and sterile processing. Some technologists may work as private assistants.

**FRESHMAN YEAR (CERTIFICATE)**

		<b>SEMESTER HOURS</b>		
		<i>1st Sem.</i>	<i>2nd Sem.</i>	<i>3rd Sem.</i>
SUT 1113	Fundamentals of Surgical Technology	3		
SUT 1216	Principles of Surgical Technique	6		
SUT 1314	Surgical Anatomy	4		
SUT 1413	Surgical Microbiology	3		
	Written Communications			
	Elective	3		
SUT 1518	Basic and Related Surgical Procedures		8	
SUT 1528	Specialized Surgical Procedures		8	
SUT 1538	Advanced Surgical Procedures			8

**TOTAL HOURS: 43**

**SOPHOMORE YEAR (TECHNICAL - Associate in Applied Science)**

SPT 1113	Public Speaking I	3		
	Approved Electives***	3		
BIO 2923	Microbiology	3		
BIO 2921	Microbiology Lab	1		
	Approved Electives***	3		
*BIO 1513	Principles of Anatomy and Physiology I Lecture	3		
*BIO 1511	Principles of Anatomy and Physiology I Laboratory	1		
	Humanities/Fine Arts Elective		3	
	Social/Behavioral Science Elective		3	
	Mathematics/Natural Science Elective		3	
	Approved Electives***		3	
**BIO 1523	Principles of Anatomy and Physiology II Lecture		3	
**BIO 1521	Principles of Anatomy and Physiology II Lab		1	

**TOTAL HOURS: 73**

**\*Approved exceptions:**

Human A&P I and Laboratory (BIO 2514)or  
BIO 2513/2511

**\*\*Approved exceptions:**

Human A&P II and Laboratory (BIO 2524)or  
BIO 2523/2521

**\*\*\*Approved Electives:**

Principles of Chemistry with Lab (CHE 1314)  
General Biology I (BIO 1134)  
General Biology II (BIO 1144)  
Algebra (MAT 1313 or higher)  
Child Psychology (EPY 2513)  
Adolescent Psychology (Human Growth and Development) (EPY 2533)  
Nutrition (FCS 1253)  
Personal and Community Health I (HPR 1213)  
Marriage and Family (SOC 2143)

Utility Lineman Technology teaches students basic lineman/cableman skills needed in the utilities field.

**FRESHMAN YEAR**

		<b>SEMESTER HOURS</b>	
		<i>1st Sem.</i>	<i>2nd Sem.</i>
ELT 1192	Fundamentals of Electricity	2	
ELT 1144	AC and DC Circuits for Electrical Technology	4	
ELT 1133	Introduction to the National Electric Code	3	
DTV 1114	Commercial Truck Driving I	4	
	Written Communication Elective	3	
ELT 1213	Electrical Power		3
GIT 2123	Fundamental of Geographic Information Systems		3
ULT 1213	Climbing Elevated Work Site		3
	Social/Behavioral Science Elective		3
	Mathematics/Science Elective		3

**SOPHOMORE YEAR**

UTL 2133	Overhead Construction	3	
ULT 2143	Underground Construction	3	
CEV 1426	Equipment Operation II	6	
	Humanities/Fine Art Elective	3	
SPT 1113	Public Speaking I	3	
UTL 2233	System Design/Operation		3
ULT 2244	Climb/Working Elevated Site		4
ELT 2913	Special Projects		3
ELT 2926	Supervised Work Experience		6

**TOTAL CREDIT HOURS 65**

**Approved Electives:**

Humanities Fine ART, Oral Communications, Social Behavioral, Mathematics/Science (See page 116)