TECHNICAL DEGREE PROGRAMS

ASSOCIATE IN APPLIED SCIENCE PROGRAMS

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)
Oral Communication: 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.

Pearl River Community College offers support services to ensure the success of all members of the special populations. Students who have disabilities, students with limited English proficiency, academically disadvantaged students, students from economically disadvantaged families, students enrolled in nontraditional fields of study, single parents and displaced homemakers will be eligible for services through the special populations department. A list of the services provided is available in the special populations department. Students can be identified through enrolling in a Career-Technical program, or a student can self-identify by contacting the special populations department.

Below is a list of technical programs and locations.

Program	Location
Automation and Control Technology(MFT)	Poplarville
Instrumentation Technology Option (INT)	Poplarville
Automotive Mechanics Technology(ATT)*	Poplarville
Aviation Maintenance Technology(APT)**	Stennis International Airport
Business and Office Techology	
Accounting Technology Option (BOT)	Poplarville
Medical Office Billing and Coding	
Technology Option (BOT)	Poplarville
Medical Office Technology Option (BOT)	Poplarville
Microcomputer Technology (BOT)	Poplarville
Office Systems Technology (BOT)	Forrest County Center/Poplarville
Business and Marketing/Management Technology (MMT)	Poplarville
Computer Information Systems Technology	
Computer Network Support Technology Option (CNT)	Poplarville
Computer Programming Technology Option (CPT)	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

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	

*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.

AUTOMATION AND CONTROL TECHNOLOGY
Associate in Applied Science
Poplarville

The Automation and Control Technology program provides students with technical knowledge and skills necessary for gaining employment as an automated manufacturing systems technician in maintenance diagnostics, engineering, or production in an automated manufacturing environment. The program focuses on electricity/electronics, fluid power, motors and controllers, programmable controls, interfacing technology, and automated processes.

		SEMESTER HOURS	
FRESHMAN YEAR		*1st Sem.*	*2nd Sem.*
MFT 1112	Introduction to Automation and Controls	2	
EET 1114	DC Circuits	4	
_____	Mathematics/Science Elective	3	
_____	Computer Related Elective	3	
_____	Technical Elective	3	
EET 1123	AC Circuits		3
EET 1334	Solid State Devices & Circuits		4
ELT 1413	Motor Control Systems		3
INT 1214	Fluid Power		4
ENG 1113	English Composition I		3
SOPHOMORE YEAR			
EET 1214	Digital Electronics	4	
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	Oral Communication		3
_____	Humanities/Fine Arts Elective		3
_____	Technical Electives		6

TOTAL CREDIT HOURS: 65-66

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:
EET 2334 Linear Integrated Circuits
ELT 2424 Solid State Motor Control
ELT 2623 Advanced Programmable Logic Controllers
MFT 2614 Flexible Manufacturing Systems
MFT 291(1-3) Special Project in Automation and Control Technology
MFT 292(1-6) Supervised Work Experience in Automation and Control Technology
ROT 1113 Fundamentals of Robotics
ROT 1313 Industrial Robotics
ROT 2613 Mechanical Systems

ROT 2413 Auto Manufacturing Controls

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   **SEMESTER HOURS**

		1st Sem.	2nd Sem.
ENG 1113	English Composition I	3	
ATT 1213	Brakes	3	
ATT 1811	Introduction, Safety, & Emp. Skills	1	
ATT 1124	Basic Electrical/Electronic Sys.	4	
ATT 2334	Steering & Suspension Systems	4	
_____	Math/Science Elective		3
ATT 1715	Engine Repair		5
ATT 1424	Engine Performance I		4
ATT 1134	Advanced Electrical/Electronic Sys.		4

SOPHOMORE YEAR

		1st Sem.	2nd Sem.
_____	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	Oral Communication		3
_____	Social/Behavioral Science Elective		3
ATT 2444	Engine Performance III		4
ATT 1314	Manual Drive Trains/Transaxles		4

TOTAL CREDIT HOURS: 65

ACADEMIC ELECTIVES:
See Technical Degree Programs in this section of the catalog for AAS degree general education core courses.

APPROVED ELECTIVES:
ATE 1113   Science and Technology
ATT 291(1-3) Special Problem in Automotive Technology
ATT 292(1-6) Supervised Work Experience in Automotive Technology

AVIATION MAINTENANCE TECHNOLOGY
Certificate of Proficiency/Associate in Applied Science*
Stennis International Airport

The Aviation Maintenance Technology program is a two-year program which offers a FAA certified curriculum designed to prepare the students for a career as aircraft, airframe, and powerplant mechanics. Upon completion of the program, students receive a Certificate of Proficiency and are qualified to take the FAA examination for certification as an Aviation Maintenance Technician. Students who complete the certificate of proficiency requirements may obtain an Associate of Applied Science degree upon completion of an additional fifteen semester hours of credit in the general education core courses. See special admission requirements for this program in the Admissions section in this catalog.

FRESHMAN YEAR   **SEMESTER HOURS**

		1st Sem.	2nd Sem.
APT 1113	Aviation Applied Sciences	3	
APT 1123	Aviation Electricity I	3	
APT 1134	Aviation Materials/Processes	4	
APT 1143	Aircraft Servicing, Weight & Balance	3	
APT 1153	Maintenance Forms/Records	3	
APT 1162	Reciprocating Engine Theory		2
APT 1213	Reciprocating Engine Overhaul		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

SOPHOMORE YEAR

		1st Sem.	2nd Sem.
APT 1241	Powerplant Conformity	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		2
APT 2243	Landing Gear/Protect 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 Programs in this section of the catalog for general education core courses.

BUSINESS AND OFFICE 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.

FRESHMAN		**SEMESTER HOURS**	
		1st Sem.	2nd Sem.
BOT 1433	Business Accounting	3	
BOT 1133	Microcomputer Applications	3	
BOT 1113	Document Formatting	3	
BOT 1313	Applied Business Mathematics	3	
BOT 1713	Mechanics of Communication	3	
BOT 1213	Professional Development	3	
BOT 1443	Advanced Business 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 Communications		3

SOPHOMORE YEAR

BOT 2413	Computerized Accounting	3	
_____	Mathematics/Science Elective	3	
SPT 1113	Oral Communication	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 Programs in this section of the catalog for AAS degree general education core courses.

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

The Medical Office Billing and Coding Technology program of study is designed to prepare a student for office positions in hospitals, doctor's offices, health clinics, insurance companies, and other health-related organizations as a Medical Billing and Coding Specialist.

FRESHMAN YEAR

		1st Sem.	2nd Sem.
BOT 1613	Medical Terminology I	3	
BOT 1133	Microcomputer Applications	3	
BOT 1113	Document Formatting	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 Terminology II		3
BOT 1413	Records Management		3

SOPHOMORE YEAR

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	Oral Communication		3
_____	Technical Elective		3

TOTAL CREDIT HOURS: 72

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVE:
BOT 1813 Electronic Spreadsheet

BOT 2323 Database Management
BOT 2533 Medical Machine Transcription II

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

The Medical Office Technology program of study is designed to prepare students to work in office positions in hospitals, doctor's offices, health clinics, insurance companies, and other health-related organizations. The student will develop skills using medical terminology, accounting, transcription, coding, and computer software applications.

FRESHMAN YEAR | | **SEMESTER HOURS** | |
		1st Sem.	*2nd Sem.*
BOT 1113	Document Formatting	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	Oral Communication		3
BOT 2823	Communication Technology		3
	Arts/Humanities Elective		3
PSY 1513	General Psychology		3

TOTAL CREDIT HOURS: 72

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

BUSINESS AND OFFICE TECHNOLOGY
Microcomputer Technology Option
Associate in Applied Science
Poplarville

The Microcomputer Technology program of study provides training in microcomputer operations in an office setting, including software configuration, troubleshooting, and systems operation.

FRESHMAN YEAR | | **SEMESTER HOURS** | |
		1st Sem.	*2nd Sem.*
BOT 1133	Microcomputer Applications	3	
BOT 1113	Document Formatting	3	
BOT 1313	Applied Business Mathematics	3	
BOT 1713	Mechanics of Communication	3	

		1st Sem.	2nd Sem.
BOT 1213	Professional Development	3	
_____	Humanities/Fine Arts Elective	3	
BOT 1123	Keyboard Skillbuilding		3
BOT 1143	Word Processing		3
CPT 1214	Visual Basic Programming		4
BOT 1433	Business Accounting		3
ENG 1113	English Comp. I		3
BOT 1813	Electronics Spreadsheet		3

SOPHOMORE YEAR

		1st Sem.	2nd Sem.
_____	Mathematics/Science	3	
BOT 2413	Computerized Accounting	3	
SPT 1113	Oral Communication	3	
BOT 2323	Database Management	3	
BOT 2823	Communication Technology	3	
_____	Computer Related Elective	3	
BOT 2833	Integrated Computer Applications		3
CPT 1353	Database Design Fundamentals		3
BOT 2133	Desktop Publishing		3
BOT 2813	Business Communications		3
PSY 1513	General Psychology		3

TOTAL CREDIT HOURS: 70

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

COMPUTER RELATED ELECTIVE: Any CSC, CNT, CPT or WDT course

BUSINESS AND OFFICE 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   **SEMESTER HOURS**

		1st Sem.	2nd Sem.
BOT 1113	Document Formatting	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

		1st Sem.	2nd Sem.
_____	Mathematics/Science Elective	3	
BOT 2413	Computerized Accounting	3	
SPT 1113	Oral Communication	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 Programs in this section of the catalog for AAS degree general education core courses.

BUSINESS MARKETING AND 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 classwork and practical experience.

FRESHMAN YEAR

		SEMESTER HOURS	
		1st Sem.	*2nd Sem.*
ENG 1113	English Composition I	3	
MMT 1113	Marketing I	3	
MMT 1313	Salesmanship	3	
_____	Computer Related Elective	3	
_____	Social/Behavioral Science Elective	3	
MMT 1753	Marketing Seminar I	3	
MMT 1413	Merchandising Mathematics		3
MMT 1123	Marketing II		3
SPT 1113	Oral Communication		3
_____	Accounting Elective		3
MMT 1323	Advertising		3

SOPHOMORE YEAR

MMT 2213	Management	3	
MMT 2613	International Marketing	3	
_____	Mathematics/Natural Science Elective	3	
MMT 2513	Entrepreneurship	3	
_____	Elective	3	
MMT 2523	Event Marketing	3	
MMT 2233	Human Resource Management		3
BAD 2413	Legal Environment of Business		3
MMT 2323	Internet Marketing		3
_____	Elective		3
_____	Humanities Elective		3

TOTAL CREDIT HOURS: 66

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:

BOT 2413	Computerized Accounting
BFT 1213	Principles of Banking
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+.

FRESHMAN YEAR   **SEMESTER HOURS**

		1st Sem.	2nd Sem.
CNT 1414	Fund. of Data Communication	4	
CPT 1214	Visual Basic Programming	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	Oral Communication		3
BOT 2813	Business Communication or		
BOT 1213	Professional Development		3

SOPHOMORE YEAR

		1st Sem.	2nd Sem.
CNT 2644	Adv. Network Admin Using Windows Server	4	
CNT 2533	Network Planning & Design	3	
CNT 2423	System Maintenance	3	
CPT 2284	C Programming	4	
MAT 1313	College Algebra	3	
CNT 2544	Network Implementation		4
CPT 2424	Adv. C. Programming or		
CPT 2434	Adv. Visual Basic Programming		4
	Humanities/Fine Arts Elective		3
	Social/Behavioral Science Elective		3
	Approved Elective		3

TOTAL CREDIT HOURS: 68/69

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

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 INFORMATION SYSTEMS TECHNOLOGY
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.

FRESHMAN YEAR

		SEMESTER HOURS	
		1st Sem.	*2nd Sem.*
CPT 1143	Programming Development Concepts	3	
CPT 1214	Visual Basic Programming	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
CPT 2383	System 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

SOPHOMORE YEAR

CPT 2284	C Programming	4	
CPT 2244	Database Programming	4	
_____	Network Elective	4	
SPT 1113	Oral Communication	3	
MAT 1313	College Algebra	3	
CPT 2354	Systems Analysis & Design		4
CPT 2424	Advanced C Programming		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 Programs in this section of the catalog for AAS degree general education core courses.

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

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COMPUTER INFORMATION SYSTEMS TECHNOLOGY
Web Development Technology Option
Associate in Applied Science
Poplarville

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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.

FRESHMAN YEAR

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

SOPHOMORE YEAR

Course	Title		
MAT 1313	College Algebra	3	
WDT 2214	Server-Side Programming I	4	
BOT 2813	Business Communications **or**		
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	Oral Communication		3
_____	Social/Behavior Science Elective		3

TOTAL CREDIT HOURS: 67

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

COMPUTER SERVICING TECHNOLOGY PROGRAM
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 · **SEMESTER HOURS**

Course	Title	1st Sem.	2nd Sem.
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	Internet Concepts		3
CST 1413	Fundamentals of Data Communication		3
_____	Technical/Related Academic Elective		3
_____	Humanities/Fine Arts Elective		3

SOPHOMORE YEAR

Course	Title	1st Sem.	2nd Sem.
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	Oral Communication		3
_____	Technical Elective		3

TOTAL CREDIT HOURS: 64

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

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

		1st Sem.	2nd Sem.
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
MAT 1323	Trigonometry		3
ENG 1113	English Composition I		3

SUMMER TERM

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

SOPHOMORE YEAR

		1st Sem.	2nd Sem.
CON 2313	Construction Layout	3	
CON 2123	Construction Cost Estimation	3	
_____	Oral Communications Elective	3	
CON 2233	Construction Systems II	3	
_____	Humanities/Fine Arts Elective	3	
CON 2113	Construction Job Site Mgmt.		3
CON 2413	Construction Safety Standards		3
_____	Behavioral/Social Science Elective		3
CON 2513	Leadership and Organization		3
_____	Technical Elective		3

TOTAL CREDIT HOURS: 69/75

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:
ACC 1213   Principles of Accounting
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

COMPUTER SCIENCE ELECTIVES:
ATE 1113   Science and Technology
CPT 1113   Fundamentals of Microcomputer Applications
CSC 1113   Introduction to Computer Concepts

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	Anatomy & Physiology for Allied Health I (3)	
BIO 1511	Anatomy & Physiology for Allied Health I Lab (1)	
BIO 1523	Anatomy & Physiology for Allied Health II (3)	
BIO 1521	Anatomy & Physiology for Allied Health II Lab (1)	
CHE 1213	General Chemistry I Elective (3)	
CHE 1211	General Chemistry I Lab Elective (1)	
CHE 1314	Principles of Chemistry I & Lab	
PSY 1513	General Psychology (3)	
SOC 2113	Introduction to Sociology (3)	
SPT 1113	Oral Communication (3)	
FCS 1253	Nutrition (3)	
MAT 1313	College Algebra (3)	

TOTAL HOURS: 37

FRESHMAN YEAR		**SEMESTER HOURS**	
		1st Sem	2nd Sem.
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 2 922	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	**SEMESTER HOURS**	
	1st Sem.	2nd Sem.

		1st Sem.	2nd Sem.
DDT 1114	Fundamentals of Drafting	4	
DDT 1313	Principles of CAD	3	
ENG 1113	English Composition I	3	
ATE 1113	Science & Technology	3	
_____	Mathematics/Science Elective	3	
DDT 2523	Pipe Drafting		3
DDT 1323	Intermediate CAD		3
SPT 1113	Oral Communication		3
DDT 1123	Computational Methods		3
_____	Humanities/Fine Art Elective		3

SOPHOMORE YEAR

DDT 1613	Architectural Design I	3	
DDT 2343	Advanced CAD	3	
DDT 2233	Structural Drafting I	3	
DDT 1213	Construction Materials	3	
DDT 1133	Machine Design 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 Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:
DDT 2243	Cost Estimating
DDT 2353	CAD Management
DDT 2253	Statics & Strengths of Materials
GIT 2113	Database Construction and Maintenance
GIT 1253	Fundamentals of Cartography
GIT 2273	Fundamentals of Remote Sensing
GIT 2133	Principles of Image Processing

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EARLY CHILDHOOD EDUCATION TECHNOLOGY
Associate in Applied Science
Poplarville

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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.

FRESHMAN YEAR		**SEMESTER HOURS**	
		1st Sem.	2nd Sem.
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 for Young Children		3
CDT 2714	Social Studies, Mathematics and Science For Young 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	3	
_____	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	Oral Communication		3
_____	Social/Behavioral Science Elective		3

TOTAL CREDIT HOURS: 68

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

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.

FRESHMAN YEAR		**SEMESTER HOURS**	
		1st. Sem.	*2nd Sem.*
ELT 1192	Fundamentals of Electricity	2	
EET 1144	AC and DC Circuits	4	
ELT 1274	Switching Circuits	4	
ENG 1113	English Composition I	3	
ELT 2613	Programmable Logic Controllers		3
ELT 2424	Solid State Motor Control		4
EET 1133	Introduction to NEC		3
ELT 1124	Commercial Industrial Wiring		4
_____	Math/Science Elective		3

SOPHOMORE YEAR			
ELT 1334	Solid State Devices	4	
ELT 1413	Motor Control	3	
ELT 1223	Motor Maintenance	3	
ELT 1114	Residential Wiring	4	
ELT 1253	Branch Circuits Serv. Cal	3	
_____	Humanities/Fine Arts Elect.	3	
ELT 1213	Electrical Power		3
ELT 2913	Special Project		3
SPT 1113	Oral Communication		3
_____	Social/Behavioral Science Elev.		3
_____	Technical Elective		3

TOTAL CREDIT HOURS: 65

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:
EET 1713   Drafting for Electronic/Electrical Technology
EET 2423   Fundamentals of Fiber Optics
EET 1613   Computer Fundamentals for Electronics/Electricity*
CPT 1113   Introduction to Computers*
ELT 292(1-6) Supervised Work Experience

Approved Computer Programming Language*
ELT 1283 Estimating the Cost of a Residential Installation
ATE 1113 Science & Technology
* May be selected as computer related elective

ELECTRONICS TECHNOLOGY
Associate in Applied Science
Poplarville and 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.

FRESHMAN YEAR		SEMESTER HOURS	
		1st Sem.	*2nd Sem.*
EET 1114	DC Circuits	4	
EET 1334	Solid State Devices and Circuits	4	
EET 1123	AC Circuits	3	
ENG 1113	English Composition I	3	
_____	Technical Elective	3	
_____	Computer Related Elective		3
EET 1214	Digital Electronics		4
_____	Mathematics/Science Elective		3
SPT 1113	Oral Communications		3
_____	Technical Elective		3

SOPHOMORE YEAR			
EET 2334	Linear Integrated Circuits	4	
EET 1324	Microprocessors	4	
_____	Technical Elective	4	
_____	Humanities/Fine Arts Elective	3	
EET 2414	Electronics Communication		4
_____	Social/Behavioral Science Elective		3
_____	Technical Electives		9

TOTAL CREDIT HOURS: 64

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:
ATE 1113	Science & Technology
CST 2123	Computer Servicing Lab II
EET 1113	Mathematics for Electronics
EET 1182	Introduction to Photonics
EET 1192	Fundamentals of Electronics
EET 1713	Drafting for Electronic/Electrical Technology
EET 2423	Fundamentals of Fiber Optics
EET 291(1-3)	Special Project
EET 292(1-6)	Supervised Work Experience in Electronics Technology
ELT 2424	Solid State Motor Control
ROT 1113	Fundamentals of Robotics
ELT 2613	Programmable Logic Controllers
ROT 1213	Industrial Hydraulics

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		SEMESTER HOURS	
		1st Sem.	*2nd Sem.*
EET 1101	Introduction to Aerospace Technology	1	
EET 1192	Fundamentals of Electronics	2	
EET 1114	DC Circuits	4	
EET 1214	Digital Electronics	4	
DDT 1114	Fundamentals of Drafting	4	
MAT 1113	College Algebra	3	
EET 1334	Solid State Devices and Circuits		4
EET 1123	AC Circuits		3
ENG 1113	English Composition I		3
MST 1113	Introduction to Machine Technology		3

INT 1413	Motor Control		3
SPT 1113	Oral Communication		3

SOPHOMORE YEAR

INT 2214	Calibration and Measurement Principles	4	
ELT 1123	Commercial and Industrial Wiring	3	
ELT 2613	Programmable Logic Controllers	3	
_____	Humanities/Fine Arts Elective	3	
EET 2334	Linear Integrated Circuits		4
INT 1214	Fluid Power		4
INT 2114	Control Systems		4
_____	Social/Behavioral Science Elective		3

TOTAL CREDIT HOURS: 65

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

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

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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.

		SEMESTER HOURS	
FRESHMAN YEAR		*1st Sem.*	*2nd Sem.*
BIO 2513	Anatomy and Physiology I	3	
BIO 2511	Anatomy and Physiology I Lab	1	
EET 1114	DC Circuits	4	
_____	Mathematics/Science Elective	3	
EET 1111	Orientation to Biomedical Careers	1	
ENG 1113	English Composition I	3	
EET 1123	AC Circuits		3
_____	Oral Communication Elective		3
EET 1214	Digital Electronics		4
_____	Social/Behavioral Science Elective		3
BIO 2523	Anatomy & Physiology II		3
BIO 2521	Anatomy & Physiology II Lab		1

SOPHOMORE YEAR			
EET 1334	Solid State Devices & Circuits	4	
EET 1324	Microprocessors	4	
_____	Humanities/Fine Arts Elective	3	
_____	Technical Elective	4	
EET 211(3-6)	Supervised Work Experience in Biomedical Equip. Repair I	3-6	
_____	Technical Elective		4
EET 2334	Linear Integrated Circuits		4
EET 222(3-6)	Supervised Work Experience in Biomedical Equip. Repair II		3-6
EET 2423	Fundamentals of Fiber Optics		3

TOTAL CREDIT HOURS: 64/70

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:

ATE 1113	Science & Technology
CPT 1113	Fundamentals of Microcomputer Applications
EET 1113	Mathematics for Electronics
EET 1192	Fundamentals of Electronics
EET 1613	Computer Fundamentals of Electronics/Electricity

EET 2414	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
Poplarville and 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 preforming 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.

		SEMESTER HOURS	
FRESHMAN YEAR		*1st Sem.*	*2nd Sem.*
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	
_____	Oral Communication Elective	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 Programs in this section of the catalog for AAS degree general education core courses.

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
ATE 1113   Science and Technology
CPT 1113   Fundamentals of Microcomputer Applications
DDT 1114   Fundamentals of Drafting
ELT 1213   Electrical Power
ELT 1223   Motor Maintenance and Troubleshooting

AUTOMATION AND CONTROL TECHNOLOGY
Instrumentation Technology Option
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		1st Sem.	2nd Sem.
FRESHMAN YEAR		**SEMESTER HOURS**	
MFT 1112	Introduction to Automation and Controls	2	
EET 1114	DC Circuits	4	
	Mathematics/Science Elective	3	
	Computer Related Elective	3	
	Technical Elective	3	
EET 1123	AC Circuits		3
EET 1334	Solid State Devices & Circuits		4
ELT 1413	Motor Control Systems		3
INT 1214	Fluid Power		4
ENG 1113	English Composition I		3

SOPHOMORE YEAR		1st Sem.	2nd Sem.
SOPHOMORE YEAR			
EET 1214	Digital Electronics	4	
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	Oral Communications		3
	Humanities/Fine Arts Elective		3
	Technical Electives		6

TOTAL CREDIT HOURS: 65-66

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

TECHNICAL ELECTIVES:
EET 2334 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 Automation and Control Technology
MFT 292(1-6) Supervised Work Experience in Automation and Control 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		1st Sem.	2nd Sem.
FRESHMAN YEAR		**SEMESTER HOURS**	
MST 1313	Machine Tool Mathematics	3	
MST 1413	Blueprint Reading	3	
MST 1115	Power Machinery I	5	
ENG 1113	English Comp 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		1st Sem.	2nd Sem.
SOPHOMORE YEAR			
ATE 1113	Science and Technology	3	
MST 2135	Power Machinery III	5	

MST 2714	Computer Num. Cont. Op. I	4	
	Humanities/Fine Arts Elective	3	
MST 2144	Power Machinery IV		4
MST 2725	Computer Num. Cont. Op. II		5
MST 2813	Metallurgy		3
SPT 1113	Oral Communication		3
	Social/Behavioral Science Elective		3

TOTAL CREDIT HOURS: 64

ACADEMIC ELECTIVES:
See Technical Programs in this section of the catalog for AAS degree general education core courses.

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

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MEDICAL LABORATORY TECHNOLOGY
Associate in Applied Science
Forrest County Center

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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   **SEMESTER HOURS**

		1st Sem.	2nd Sem.	3rd Sem.
MLT 1112	Fundamentals of MLT/Phlebotomy	2		
ENG 1113	English Composition I	3		
	Chemistry Elective with lab	4		
MAT 1313	College Algebra	3		
BIO 1513	Anatomy and Physiology for Allied Health I	3		
BIO 1511	Anatomy and Physiology for Allied Health I Laboratory	1		
MLT 1212	Urinalysis/Body Fluids	2		
MLT 1314	Hematology I		4	
BIO 1523	Anatomy and Physiology for Allied Health II	3		
BIO 1521	Anatomy and Physiology for Allied Health II Lab		1	
MLT 2612	Parasitology		2	
MLT 1413	Immunology/Serology		3	
BIO 2923	Microbiology			3
BIO 2921	Microbiology Lab			1
SPT 1113	Oral Communication			3
	Social/Behavioral Science Elective			3
	Humanities/Fine Arts Elective			3

SOPHOMORE YEAR

		1st Sem.	2nd Sem.	3rd Sem.
MLT 2615	Pathogenic Microbiology	5		
MLT 2424	Immunohematology	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 2714	Certification Fundamentals for MLT			4
MLT 2712	Seminar			2

TOTAL CREDIT HOURS: 86

MEDICAL RADIOLOGIC TECHNOLOGY
Associate in Applied Science
Forrest County Center

Radiographers use ionizing radiation imaging equipment to 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

		1st Sem.	2nd Sem.	3rd Sem.
Summer Session				
BIO 1514	Anatomy and Physiology for Allied Health I	4		
BIO 1524	Anatomy and Physiology for Allied Health II	4		
RGT 1312	Principles of Radiation Protection	2		
RGT 1223	Patient Care and Radiography	3		
Fall Semester				
RGT 1114	Clinical Education I		4	
RGT 1213	Fundamentals of Radiography		3	
RGT 1413	Radiation Exposure I		3	
RGT 1513	Radiographic Procedures I		3	
_____	Mathematic/Science Elective		3	
Spring Semester				
RGT 1124	Clinical Education II			4
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	
_____	Oral Communication Elective		3	

TOTAL HOURS: 88

OCCUPATIONAL THERAPY ASSISTANT TECHNOLOGY
SUGGESTED COURSE SEQUENCE*
Baseline Competencies for Occupational Therapy Assistant Technology**
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 36% increase in Occupational Therapy Assistant jobs nationally by 2007.

FRESHMAN YEAR

		1st Sem.	2nd Sem.	3rd Sem.
Fall Semester				
OTA 1113	Foundations of Occupational Therapy	3		
OTA 1142	Wellness Systems	2		
OTA 1134	Anatomy & Physiology	4		
OTA 1423	Occupational Therapy Skills I	3		
_____	Written Communication Elective	3		
_____	Social/Behavioral Science Elective	3		
Spring Semester				
OTA 1213	Pathology of Psychiatric Conditions		3	
OTA 1314	Kinesiology		4	

OTA 1413	Therapeutic Media	3		
OTA 1513	Group Process	3		
_____	Mathematics/Science Elective	3		

Summer Session

OTA 1913	Fieldwork 1A: Psychosocial/ Specialty			3
OTA 1433	Occupational Therapy Skills II			3
OTA 1223	Pathology of Physical Disability Conditions			3
OTA 1233	Pathology of Developmental Conditions			3

SOPHOMORE YEAR
Fall Semester

OTA 2713	Concepts in Occupational Therapy	3		
OTA 2935	Fieldwork 1B: Physical Dysfunction/Pediatrics	5		
OTA 2443	Occupational Therapy Skills III	3		
OTA 2961	Occupational Therapy Transitions	1		
_____	Fine Arts/Humanities Elective	3		
_____	Oral Communication Elective	3		

Spring Semester

OTA 2946	Fieldwork 11A		6	
OTA 2956	Fieldwork 11B		6	

TOTAL CREDIT HOURS: 78

*Students who lack entry level skills in mathematics, English, science, etc., will be provided related studies.

**Baseline competencies are taken from the high school Allied Health program. Students who can document mastery of these competencies should not receive duplicate instruction. Students who cannot demonstrate mastery will be required to do so.

PHYSICAL THERAPIST ASSISTANT TECHNOLOGY
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

		SEMESTER HOURS		
		1st Sem.	2nd Sem.	Summer
PTA 1123	Fundamental Concepts of Physical Therapy	3		
ENG 1113	English Composition I	3		
MAT 1313	College Algebra	3		
BIO 1513	Anatomy & Physiology for Allied Health I	3		
BIO 1511	Anatomy & Physiology for Allied Health I Lab	1		
PSY 1513	General Psychology	3		
PTA 1213	PTA Fundamental Skills		3	
BIO 1523	Anatomy & Physiology for Allied Health II		3	
BIO 1521	Anatomy & Physiology for Allied Health II Lab		1	
PTA 1315	Kinesiology		5	
SPT 1113	Oral Communication		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	Introduction to Computing with Business Applications
HPR 1213	Personal and Community Health
HPR 2213	First Aid
EDU 1423	College 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

RESPIRATORY CARE PRACTITIONER TECHNOLOGY
Associate in Applied Science
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	Anatomy & Physiology for Allied Health I (3)
BIO 1511	Anatomy & Physiology for Allied Health I Lab (1)
BIO 1523	Anatomy & Physiology for Allied Health II (3)
BIO 1521	Anatomy & Physiology for Allied Health II Lab (1)
Behavioral/Social Science Elective (3)	
SPT 1113	Oral Communication (3)
MAT 1313	College Algebra (3)
Humanities Elective (3)	

TOTAL HOURS: 23

FRESHMAN YEAR

		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

		1st Sem.	2nd Sem.	3rd Sem.
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 TECHNOLOGY
Certificate/Associate in Applied Science
Forrest County Center

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)

		SEMESTER HOURS		
		1st Sem.	2nd Sem.	3rd Sem.
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 Communication Electives	3		
SUT 1518	Basic and Related Surgical		8	
SUT 1528	Specialized Surgical		8	
SUT 1538	Advanced Surgical Procedures		8	

TOTAL HOURS: 43

SOPHOMORE YEAR (TECHNICAL)

		1st Sem.	2nd Sem.	3rd Sem.
SPT 1113	Oral Communication	3		
	Approved Electives***	3		
BIO 2923	Microbiology	3		
BIO 2921	Microbiology Lab	1		
	Approved Electives***	3		
*BIO 1513	Anatomy & Physiology for Allied Health I	3		
*BIO 1511	Anatomy & Physiology for Allied Health I Lab	1		
	Humanities/Fine Arts Elective		3	
	Social/Behavioral Science Elective		3	
	Mathematics/Natural Science Elective		3	
	Approved Electives***		3	
**BIO 1523	Anatomy and Physiology II		3	
**BIO 1521	Anatomy and Physiology II Lab		1	

TOTAL HOURS: 73

*Approved exceptions:
Human A&P I and Laboratory (BIO 2514)
**Approved exceptions:
Human A&P II and Laboratory (BIO 2524)

***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)