

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - HEATING AND AIR CONDITIONING**

Heating and Air Conditioning is an instructional program that prepares individuals to work in engineering departments or private firms installing, maintaining, and operating small or medium air conditioning, heating and refrigeration systems.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER FRESHMAN					
ACT 1125 Basic Compression Refrigeration (5 hrs)					
ACT 1133 Tools & Piping (3 hrs)					
ACT 1312 Ref System Comp (2 hrs)					
ACT 1813 Prof Service Procedures (3 hrs)					
CPT 1113 Fundamentals of Micro (3 hrs)					
SECOND SEMESTER FRESHMAN					
ACT 1713 Elec for HVAC/R (3 hrs)					
ACT 1213 Controls (3 hrs)					
ACT 2324 Com Refrigeration (4 hrs)					
SMT 1315 Methods of Lay (5 hrs)					
FIRST SEMESTER SOPHOMORE					
ACT 2414 AC I (4 hrs)					
ACT 2513 Heating System (3 hrs)					
ACT 2624 Heat Load & Air Prop (4 hrs)					
SMT 1414 Hand Processes (4 hrs)					
SECOND SEMESTER SOPHOMORE					
ACT 2424 AC II (4 hrs)					
ACT 2433 Ref Retrofit & Reg (3 hrs)					
ACT 291(1-4) Special Projects (1-4 hrs)					
SMT 2514 Machine Process (4 hrs)					
APPROVED ELECTIVES (with instructors permission):					
ACT 292(1-6) Supervised Work Experience (1-6 hrs)					
Total Hours: 58					
Advisor Initials:					
Date:					

**Instructors: Thomas Tanksley and Kenny Jobe
Certificate Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - AGRICULTURAL MECHANICS**

Agricultural Mechanics training at Mississippi Delta Community College is a course structured to help students gain knowledge through classroom instruction and to develop skills through shop experience.

Classroom work consists of the study of the parts and functions of the two and four cycle engine, the electrical system, and the three types of fuel systems (diesel, L.P. and gasoline), the power training, the hydraulic system, and the air conditioning system. Operation of the cotton picker and combine is also studied.

Shop work consists of experience in diagnosis, repair and overhaul of various types of farm equipment. In addition, students receive training in such areas as shop mathematics, stock control, shop management, and customer relations.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER FRESHMEN					
AMT 1123 Ag Mech Fund (3 hrs)					
AMT 1413 Basic Eng Design (3 hrs)					
AMT 1423 Adv Eng Design (3 hrs)					
AMT 1213 Basic Elec Sys (3 hrs)					
AMT 1223 Adv Elec Sys (3 hrs)					
AMT 2813 Compact Eng & Equip (3 hrs)					
SECOND SEMESTER FRESHMEN					
AMT 1313 Basic Pow Trans (3 hrs)					
AMT 1323 Adv Pow Trans (3 hrs)					
AMT 1511 Prin of AC (1 hrs)					
AMT 1613 Basic Hyd Sys (3 hrs)					
AMT 2623 Adv Hyd Sys (3 hrs)					
AMT 2923 Supervised Work or AMT 2913 Special Projects (3 hrs)					
APPROVED ELECTIVES:					
AMT 2313 Cotton Harvesting Equipment (3 hrs)					
Total Hours: 34					
Advisor Initials:					
Date:					

**Instructor: Joe Galey
Certificate Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - AUTOMOTIVE MACHINIST**

The Automotive Machinist program is a 9-month career course structured to impart to students the knowledge and skills necessary to become a qualified automotive machinist.

Each student will learn by actually working on automotive, industrial and agricultural engines. Students will be taught all aspects of disassembly, inspection, remachining, and reassembly of an engine. They will learn how to determine if replacement parts are needed in an engine. Students will operate a variety of automotive machine shop equipment to include valve grinders, cylinder boring bars, crankshaft grinders, rod honing machines, engine balancers, and cleaning equipment. The basic principles of the internal combustion engine and general construction of the automotive engine are two of the main features of this curriculum. Students are also taught the use of precision measuring tools, (micrometers, calipers, dial indicators, etc.). These skills are useful in all automotive and machinist fields.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER					
AUV 1116 Fundamentals for Automotive Machinists (6 hrs)					
AUV 1216 Cylinder Head Service (6 hrs)					
AUV1513 Parts & Labor (3 hrs)					
SECOND SEMESTER					
AUV 1316 Cylinder Block Service (6 hrs)					
AUV 1416 Engine Assembly and Testing (6 hrs)					
AUV 1713 Brake Rotor and Drum Machining (3 hrs)					
APPROVED ELECTIVES (with permission of instructor)					
AUV 1913 Special Projects (3 hrs)					
AUV 1923 Supervised Work Experience (3 hrs)					
AUV 1613 Advanced Crankshaft Grinding (3 hrs)					
Total Hours: 30					
Advisor Initials:					
Date:					

**Instructor: Gilbert Loper
Certificate Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - AUTO MECHANICS**

Automotive Mechanics is an instructional program that 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. Students must have a valid driver's license to enroll in this program.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER					
ATV 1124 Basic Electrical and Electronics (4 hrs)					
ATV 1214 Brakes (4 hrs)					
ATV 1424 Engine Performance I (4 hrs)					
ATV 1715 Engine Repair (5 hrs)					
ATV 1812 Intro to Safety and Employability Skills (2 hrs)					
SECOND SEMESTER					
ATV 1134 Advanced Electrical and Electronics (4 hrs)					
ATV 2334 Steering and Suspension (4 hrs)					
ATV 2434 Engine Performance II (4 hrs)					
APPROVED ELECTIVES					
ATV 2913 Special Projects (3 hrs)					
ATV 2923 Supervised Work Exp. (3 hrs)					
Total Hours: 31					
Advisor Initials:					
Date:					

**Instructors: Bobby Turner & Nick Lofton
Certificate Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - BRICK BLOCK AND STONE MASONRY**

Brick, Block and Stone Masonry is an instructional program that prepares individuals to lay brick, block or stone. Included is instruction in laying out and/or spacing bonds; determining vertical and horizontal alignment of courses and levels; and cutting, notching, and shaping blocks, bricks, and stone to construct or repair walls, partitions, arches and fireplaces. A Certificate of Brick, Block and Stone Masonry may be awarded to a student who successfully completes the 32 semester credit hours of required courses.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER					
BBV 1115 Brick & Block Laying (5 hrs)					
BBV 1215 Masonry Construction (5 hrs)					
BBV 1223 Masonry Math, Est. (3 hrs)					
BBV 1313 Tools, Equip, & Safety (3 hrs)					
SECOND SEMESTER					
BBV 1425 Adv Block Laying (5 hrs)					
BBV 1525 Adv Bricklaying (5 hrs)					
BBV 1623 Chimney & Fireplace (3 hrs)					
BBV 1723 Steps, Arch, Brick (3 hrs)					
APPROVED ELECTIVES (with permission of instructor:					
BBV 1913 Special Projects (3 hrs)					
BBV 1923 Supervised Work Experience (3 hrs)					
Total Hours: 32					
Advisor Initials:					
Date:					

**Instructor: Clarence Steelman
Certificate Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - CONSTRUCTION EQUIPMENT OPERATIONS**

The Construction Equipment Operation program is a none-month certificate program which prepares an individual to operate and maintain a variety of heavy equipment including backhoe, fork-lift, dozer, end-loader, excavator, motor grader, and scraper. The instruction includes safety, general care, and routine maintenance. The program also includes instruction in digging, ditching, sloping, stripping, grading, back filling, clearing, excavating, and handling of materials. An individual successfully completing this program will have entry level skills for employment as a heavy equipment operator. It is required that all students demonstrate basic skill performance on each of the following pieces of construction equipment: backhoe, fork-lift, dozer, end loader, excavator, motor grader and scraper. Advanced skill performance on a minimum of two items of equipment is essential to successful program completion. Fork-lift certification is available for qualifying students.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER					
CEV 1212 Safety I (2 hrs)					
CEV 1313 Service & Preventive Maintenance I (3 hrs)					
CEV 1416 Equipment Operation I (6 hrs)					
CEV 1514 Grade Work 1 (4 hrs)					
SECOND SEMESTER					
CEV 1222 Safety II (2 hrs)					
CEV 1323 Service & Preventive Maintenance II (3 hrs)					
CEV 1426 Equipment Operation II (6 hrs)					
CEV 1524 Grade Work II (4 hrs)					
Total Hours: 30					
Advisor Initials:					
Date:					

**Instructor: Stephen Poole
Certificate Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - INDUSTRIAL ELECTRICITY/INDUSTRIAL MAINTENANCE**

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

Student _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER FRESHMEN					
ELT 1113 Res/Light Comm Wiring (3 hrs)					
ELT 1143 AC/DC Circuits (3 hrs)					
ELT 1192 Fund Electric (2 hrs)					
ELT 1213 Electrical Power (3 hrs)					
ELT 1253 Branch Circuits (3 hrs)					
ELT 1263 Blueprint Reading (3 hrs)					
SECOND SEMESTER FRESHMEN					
ELT 1123 Commercial & Industrial Wiring (3 hrs)					
ELT 1223 Motor Maint/Troubleshooting (3 hrs)					
ELT 1413 Motor Control System (3 hrs)					
ELT1273 Switching Circuits (3 hrs)					
ELT 1133 Intro to the NEC (3 hrs)					
APPROVED ELECTIVE (with permission of instructor)					
ELT 292(1-6) Supervised Work I (1-6 hrs)					
ELT 294(1-6) Supervised Work II (1-6 hrs)					
ELT 291(1-3) Special Projects I (1-3 hrs)					
ELT 293(1-3) Special Projects II (1-3 hrs)					
Total Hours: 32					
Advisor Initials:					
Date:					

**Instructors: Mark Myles & David Grant
Certificate Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION - MACHINE TOOL OPERATIONS**

Machine Tool Operations instructs its students in making computation relating to working dimensions, tooling, feeds and speeds of machinery. Instruction in the laboratory is provided in the use of lathes, shapers, milling machine, grinders; the use of precision measuring instruments such as layout tools, micrometers, and gauges; methods of machining and heat treating and testing of various metals; and the reading of blueprint parts. Advanced training is available in technical mathematics, mechanical drawing, industrial psychology, safety and shop management.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER FRESHMAN					
MST 1313 Mach Tool Math (3 hrs)					
MST 1413 Blueprint Reading (3 hrs)					
MST 1115 Power Mac I (5 hrs)					
CPT 1113 Fund of Micro (3 hrs)					
SECOND SEMESTER FRESHMAN					
MST 1125 Power Mach II (5 hrs)					
MST 1613 Precision Layout (3 hrs)					
MST 1423 Adv Blueprint Read (3 hrs)					
DDT 1114 Fund Drafting (4 hrs)					
FIRST SEMESTER SOPHOMORE					
MST 2135 Power Mach III (5 hrs)					
MST 2714 Comp Num Cont (4 hrs)					
DDT 1313 Prin of CAD (3 hrs)					
SECOND SEMESTER SOPHOMORE					
MST 2725 Comp Num Cont II (5 hrs)					
MST 2144 Power Mach IV (4 hrs)					
MST 2923 Sup Work Exp or MST 2913 Special Projects (3 hrs)					
Total Hours: 53					
Advisor Initials:					
Date:					

**Instructor: Charles Wooley
Certificate Degree Program**

**MISSISSIPPI DELTA COMMUNITY COLLEGE
CAREER EDUCATION – WELDING**

The Welding Program is designed to develop skills in various methods of welding. During the first semester, the student is taught the use of the arc welder, oxyacetylene torch and plasma arc cutter. Classroom instruction is also received in blueprint reading, welding metallurgy, welding theory and types of welding machines. Second semester the students are taught the use of mig welder and tungsten inert gas techniques on both ferrous and non-ferrous materials. Also, they are taught flux core arc welding in all positions. Welding inspection and testing principles are also taught.

STUDENT NAME _____

REQUIRED COURSES:	PREV TAKEN	FALL	SPRING	FALL	SPRING
FIRST SEMESTER					
WLV1115 Shield Metal Arc Weld I (5 hrs)					
WLV1171 Weld Inspect & Test (1 hr)					
WLV1225 Shield Metal Arc Weld II (5 hrs)					
WLV1232 Draw & Weld Sym (2 hrs)					
WLV1314 Cutting Processes (4 hrs)					
SECOND SEMESTER					
WLV1124 Gas Metal Arc Weld (4 hrs)					
WLV1136 Gas Tungsten Arc Weld (6 hrs)					
WLV1143 Flux Cored Arc Weld (3 hrs)					
WLV1913 Special Projects OR (3 hrs)					
WLV1923 Supervised Work Exp (3 hrs)					
Total Hours: 36					
Advisor Initials:					
Date:					

**Instructor: Roger Wright
Certificate Program**