

# AUTO MECHANICS (AUTMC)

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## Courses

### **AUTMC-190 DIRECTED STUDY IN AUTO MECHANICS TECHNOLOGY 1.00-6.00 Credits**

Individually prescribed instruction and self-study to meet specific training objectives. May be repeated. Credits earned may not directly apply to degree or certificate.

### **AUTMC-200 HVAC AND ACCESSORIES 4.00 Credits**

Students will learn the basic laws of physics governing heating and air conditioning systems, how to safely handle and dispose of refrigerants, lubricants, solvents, and coolants used in automotive HVAC systems. Students will become versed in federal laws and practices and use of equipment in servicing HVAC systems, including information about differing refrigerants and refrigerant lubricants used in industry, how to properly identify, evacuate, charge air conditioning systems, diagnose system failures, perform repairs and services on heating and cooling systems as needed. Care and use of proper tool usage is stressed. Topics will include other electrical devices found in vehicles such as blowers and other power devices. Other projects may be assigned to fit individual needs including the study of climate control management systems and drive motors, heated/cooled seats, anti-theft system operation, cruise control, audio and visual systems, supplemental restraints, power and heated mirrors, heated glass, basic vehicle communication networks, body control modules and related circuitry, basic audio and visual systems as well as an overview of the latest technology.

### **AUTMC-209 AUTOMATIC TRANSMISSION REPAIR/DIAGNOSIS 6.00 Credits**

In-depth study of theory, service, and repair of modern automatic transmission, and tools and instruments required. Automotive practices used in automatic transmission, and drive train diagnosis, repairs, and rebuilding.

### **AUTMC-212 AUTOMOTIVE TUNE-UP AND DRIVABILITY 6.00 Credits**

Consists of theory of automotive tune-up. Students obtain in-depth knowledge of engines and related systems, control systems, and relationship to overall engine performance. Drivability diagnosing emphasized to develop orderly process of locating faults and analysis of various electronics systems. Live shop process where acquired skills from theory portion are practiced. Use of electronics testing tools and automobile manufacturers' service manuals emphasized to guide each job to a successful completion. Successful completion of all jobs verified by instructor.

### **AUTMC-225 ADVANCED COMPUTERIZED FUEL SYSTEMS 6.00 Credits**

Provides technical information necessary to diagnose and maintain computerized fuel systems. Consists of half theory, lecture, and demonstrations, and half internship placement at local business to complete assigned competency list.

### **AUTMC-227 AUTOMOTIVE PARTS COUNTER PERSON 1.00-6.00 Credits**

Obtain an understanding of parts management; store operation and personal duties; catalog use and the importance of the computer in the parts industry. Students will learn how to deal with customers one-on-one as well as the use of proper telephone etiquette, inventory control, and parts pricing. Students will be expected to process parts requisitions, control incoming inventory, and order parts using the computer and the telephone.

### **AUTMC-290 DIRECTED STUDY IN AUTO MECHANICS TECHNOLOGY 1.00-6.00 Credits**

Directed Study in Auto Mechanics Technology.

### **AUTMC-294A IN: AUTOMATIC TRANSMISSIONS REPAIR 1.00-6.00 Credits**

Advanced on-the-job training in automatic transmissions. Student is a paid employee under employer's immediate supervision. Program coordinator works with employer to establish and maintain educational goals.

### **AUTMC-294B IN: AUTOMOTIVE MECHANICS 1.00-6.00 Credits**

Advanced on-the-job training with emphasis on automobile electronics. Program coordinator works with employer to establish and maintain training goals.

### **AUTMC-294C IN: AUTOMOTIVE AIR CONDITIONING 1.00-6.00 Credits**

On-the-job training in automotive accessories and electrical circuits. Student is employee of local business and under their immediate supervision. Program coordinator works with employer to establish and maintain training goals.

### **AUTMC-394 IN: AUTO REPAIR 12.00 Credits**

Individually prescribed instruction and self-study to meet specific training objectives. May be repeated.