

AUTOMOTIVE TECHNOLOGY (AUMT)

AUMT 1201 Introduction and Theory of Automotive Technology 2 Credits (1 Lec, 3 Lab)

This course provides an introductory overview of the automotive service industry including, history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and automobile maintenance.

Prerequisite(s): Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1272 Automotive Maintenance and Repair 2 Credits (1 Lec, 3 Lab)

This course provides an overview of manufacturers specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and maintenance/repair procedures. Students will learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools.

Prerequisite(s): Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1316 Automotive Suspension and Steering 3 Credits (2 Lec, 4 Lab)

This course is the study of the diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

Prerequisite(s): AUMT 2421, Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1319 Automotive Engine Repair 3 Credits (2 Lec, 4 Lab)

This course is the study of the fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

Prerequisite(s): AUMT 1407; Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1345 Automotive Climate Control Systems 3 Credits (2 Lec, 4 Lab)

This course is a study of the diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

Prerequisite(s): AUMT 1407; Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1407 Automotive Electrical Systems 4 Credits (2 Lec, 6 Lab)

This course is an overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and service manuals. May be taught manufacturer specific.

Prerequisite(s): Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1410 Automotive Brake Systems 4 Credits (2 Lec, 6 Lab)

This course is the study of the operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught manufacturer specific.

Prerequisite(s): AUMT 2421; Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1416 Automotive Suspension and Steering 4 Credits (2 Lec, 6 Lab)

This course is the study of the diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

Prerequisite(s): AUMT 2421, Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1419 Automotive Engine Repair 4 Credits (2 Lec, 6 Lab)

This course is the study of the fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, dis-assembly, repair, and reassembly of the engine. May be taught manufacturer specific.

Prerequisite(s): Reading level 7, Writing level 6, Math level 4

Course Type: Technical

AUMT 1445 Automotive Climate Control Systems 4 Credits (2 Lec, 6 Lab)

This course is a study of the diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

Prerequisite(s): AUMT 2421, Reading level 7, Writing level 6, Math level 6

Course Type: Technical

AUMT 1471 Manufacturers Maintenance and Pre-Delivery 4 Credits (2 Lec, 6 Lab)

This course provides an overview of manufacturers specific automotive quick services and new/used vehicle preparation. Topics include vehicle inspections, preparing estimates, changing fluids and filters, proper hazardous waste disposal, minor electrical repairs and road-testing techniques using manufacturers information systems, forms, and maintenance/repair procedures. Students will learn how to inspect and evaluate vehicle systems to determine if advanced levels of repairs are needed. They also learn how to identify and operate necessary equipment and tools.

Prerequisite(s): Reading level 7, Writing level 6, Math level 6

Course Type: Technical