

AUTOMOTIVE TECHNOLOGY (AUMT)

AUMT-1005. Introduction to Automotive Technology. (0 Credits)

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific.

AUMT-1035. Automot Engine Sys Operation & Diagnosis. (0 Credits)

A study of the use of test equipment necessary for diagnosis and repair of the automobile engine and the proper use of this engine systems service equipment. Topics include the operation and repair techniques of the engine cooling system, intake and exhaust manifold.

AUMT-1055. Auto Oper & Diag of Ignition, Fuel, Emis. (0 Credits)

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific.

AUMT-1201. Introduction & Theory of Automotive Technology. (2 Credits)

(2-1-3) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. 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. Lab fee.

AUMT-1213. Automotive Suspension & Steering Systems Theory. (2 Credits)

(2-1-3) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. A study of automotive suspension and steering systems including the theory of wheel and tire construction and alignment angles and procedures. Lab fee.

AUMT-1241. Automotive Climate Control Systems Theory. (2 Credits)

(2-1-3) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. Theory of automotive climate control systems. Emphasis on the refrigeration cycle and diagnosis of system malfunctions. Includes manual and electronic climate control systems. Lab fee.

AUMT-1257. Automotive Brake Systems Theory. (2 Credits)

(2-1-3) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. Theory and principles related to the design, operation, and servicing of automotive braking systems. Includes disc and drum-type brakes, hydraulic systems, power assist components, anti-lock brake systems, and diagnosis and reconditioning procedures. Lab fee.

AUMT-1305. Introduction to Automotive Technology. (3 Credits)

(3-2-2) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific. Lab fee.

AUMT-1310. Automotive Brake Systems. (3 Credits)

(3-2-4) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. 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. Lab fee.

AUMT-1316. Automotive Suspension & Steering Systems. (3 Credits)

(3-2-4) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. 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. Lab fee.

AUMT-1345. Automotive Climate Control Systems. (3 Credits)

(3-2-4) This course is taken for academic credit. DUAL AUTO PROGRAM ONLY. Students will earn an A, B, C, D, F, or W. Diagnosis and repair of manual/electronic climate control systems. Includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific. Lab fee.

AUMT-1405. Introduction to Automotive Technology. (4 Credits)

(4-2-6) This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific. Lab fee.

AUMT-1419. Automotive Engine Repair. (4 Credits)

(4-2-8) This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, and disassembly, repair, and reassembly of the engine. May be taught manufacturer specific. Lab fee.

AUMT-1445. Automotive Climate Control Systems. (4 Credits)

(4-2-8) This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Diagnosis and repair of manual/electronic climate control systems. Includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific. Lab fee.

AUMT-2017. Automotive Engine Performance Analysis. (0 Credits)

Theory, operation, diagnosis of drivability concerns, and repair of ignition and fuel delivery systems. Use of current engine performance diagnostic equipment. May be taught manufacturer specific.

AUMT-2034. Automotive Engine Performance Analysis I. (0 Credits)

Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific.

AUMT-2313. Automotive Drive Train and Axles. (3 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on the diagnosis and repair. May be taught manufacturer specific. Lab fee.

AUMT-2325. Automotive Auto Transmission & Transaxle Transaxle. (3 Credits)

This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A study of the operation, hydraulic circuits and electronic controls of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and repair techniques. May be taught manufacturer specific. Lab fee.

AUMT-2417. Automotive Engine Performance Analysis I. (4 Credits)

(4-2-8) This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Theory, operation, diagnosis of drivability concerns, and repair of ignition and fuel delivery systems. Use of current engine performance diagnostic equipment. May be taught manufacturer specific. Lab fee.

AUMT-2434. Automotive Engine Performance Analysis II. (4 Credits)

(4-2-8) This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific. Lab fee.