AUTOMOTIVE MECH/ TECH (AUMT)

AUMT 1201

Introduction and Theory of Automotive Technology

CRT HRS:2 LEC HRS:2 LAB HRS:1 OTH HRS:0 This course is an introduction overview of the automotive service industry including history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and automobile maintenance.

Prerequisite: None.

AUMT 1264

Practicum I

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20 This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student.

Prerequisite: Permission from the department.

AUMT 1265

Practicum I

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20 This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student.

Prerequisite: Permission from the department.

AUMT 1266

Practicum I

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20 This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student.

Prerequisite: Permission from the department.

AUMT 1267

Practicum II

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20 This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student.

Prerequisite: Permission from the department.

AUMT 1316

Automotive Suspension and Steering Systems-GM-ASEP

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0 This course covers 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: AUMT 1407.

AUMT 1345

Automotive Climate Control Systems

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0 This course covers the theory of automotive air conditioning and heating systems, including diagnosis and repair of manual/electronic climate control systems. Emphasis is placed on the basic refrigeration cycle and diagnosis and repair of system malfunctions. EPA guidelines for refrigerant handling and new refrigerant replacements are also covered. *Prerequisite: DEMR 1401 or AUMT 1407.*

AUMT 1407

Automotive Electrical Systems

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0 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 is placed on electrical principles, schematic diagrams and service publications. *Prerequisite: None.*

ALIMT 1/10

Automotive Brake Systems

CRT HRS:4 LEC HRS:2 LAB HRS:8 OTH HRS:0 This course covers 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.

Prerequisite: AUMT 1407.

AUMT 1416

Automotive Suspension and Steering Systems CRT HRS:4 LEC HRS:2 LAB HRS:8 OTH HRS:0

This course covers 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: Concurrent enrollment in AUMT 1407.

AUMT 1419

Automotive Engine Repair

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0 This course explores the fundamentals of engine operation, diagnosis and repair. Emphasis is on identification, inspection, measurements, and disassembly, repair, and re-assembly of the engine. Prerequisite: Concurrent enrollment in AUMT 1407.

AUMT 2264

Practicum I

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20 This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student.

Prerequisite: Permission from the department.

AUMT 2266

Practicum III-GM ASEP

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20 This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student.

Prerequisite: Permission from the department.

AUMT 2267

CAPSTONE: Practicum IV- GM ASEP

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:20 This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college and the student

Prerequisite: Permission from the department.

AUMT 2313

Automotive Drive Train and Axles

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0 This course is a study of automotive clutches, clutch operation devices, manual transmissions/ transaxles, and differentials with emphasis on diagnosis and repair.

Prerequisite: AUMT 1419.

AUMT 2417

Automotive Engine Performance Analysis I

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0 This course includes theory, operation, diagnosis of drivability concerns, and repair of ignition and fuel delivery systems. Use of current engine performance diagnostic equipment is emphasized. *Prerequisite: AUMT 1407; concurrent enrollment in AUMT 1419.*

AUMT 2421

Automotive Electrical Diagnosis and Repair CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0 This course covers the repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis is placed on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques.

Prerequisite: AUMT 1407.

AUMT 2425

Automatic Transmission and Transaxle

CRT HRS:4 LEC HRS:2 LAB HRS:6 OTH HRS:0 This course is a study of the operation, hydraulic circuits and electronic controls, and related circuits of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and proper repair techniques are covered.

Prerequisite: AUMT 1407.

AUMT 2434

Automotive Engine Performance Analysis II
CRT HRS:4 LEC HRS:2 LAB HRS:8 OTH HRS:0
This course covers the diagnosis and repair
of emission systems, computerized engine
performance systems, and advanced ignition and
fuel systems; and proper use of advanced engine
performance diagnostic equipment.
Prerequisite: AUMT 2417.