



# AUTOMOTIVE MECHANICS (604)

## Associate of Applied Science

### ABOUT OUR PROGRAM

This program prepares students for employment in the areas of computerized engine controls, air conditioning, transmissions, alignments, brakes, control systems diagnostics and engine service. Certification is possible in Automotive Service Excellence/Master Automobile Technician.

### NATURE OF WORK AND EMPLOYMENT

Program graduates may find jobs repairing and servicing mechanical and electrical parts of passenger cars, trucks, buses, and other automotive vehicles. Job openings in the automotive field may be for general technicians or specialists in control systems diagnostics, engines, brakes, drive trains, transmissions, steering/suspension, electrical systems, tune-up/emission control, or heating and air conditioning. The outlook for employment in this occupation is excellent due to the increasing number of vehicles on the road and the growing complexity of automotive technology.

### SPECIAL CONSIDERATIONS

Completion of this degree will provide all of the courses that a student will need to become an ASE (Automotive Service Excellence) Certified Master Automobile Service Technician. The program is accredited through NATEF (National Automotive Technicians Educational Foundation).

### PROGRAM CONTACTS

Call Highland at 815/235-6121 for the following program contacts:

- Dr. Michael Spangler, Dean of Business & Technology
- Mr. Jim McLeland, Automotive Technology Faculty
- Mr. Jim Palmer, Automotive Technology Faculty

### First Semester 19 Sem. Hours

* AUTM 111	Suspension and Alignment	5
* AUTM 113	Brakes	4
* AUTM 115	Standard Transmission & Final Drives	4
* Communications (COMM 101, BUSN 141 or ENGL 121)		3
WELD 135	Shield Arc/Ox Welding	3

### SECOND SEMESTER 17 Sem. Hours

* AUTM 120	Fundamentals of Engines	3
* AUTM 122	Engine Components and Construction	3
* AUTM 124	Fundamentals of Electricity	4
* Physical Principles (NSCI 131 or MTEC 261)		3
* BUSN 125	Mathematics of Business	3
INFT	Elective	1

### THIRD SEMESTER 16 Sem. Hours

* AUTM 231	Fundamentals of Electronics	3
* AUTM 233	Fuel Systems	3
* AUTM 235	Electronic Engine Controls	4
* AUTM 237	Engine Performance	3
Economic Principles (ECON111 or HMEC 225)		3

### FOURTH SEMESTER 17 Sem. Hours

* AUTM 240	Automatic Transmissions	5
* AUTM 242	Automotive Body Electronics	3
* AUTM 246	Automotive Servicing	2
AUTM 248	Automotive Heating & Air Conditioning	3
INFT	Elective	1
SPCH 191	Fundamentals of Speech	3

### TOTAL HOURS = 69

\* Course has a prerequisite. See course descriptions.