

# Automotive Technology

## ENGINEERING TECHNOLOGIES DEPARTMENT

### Associate in Applied Science (A.A.S.) Degree

Students acquire the technical skills for career opportunities as an automotive service technician in dealerships and independent businesses. This program is offered in cooperation with Middlesex County Vocational and Technical Schools. It combines classroom and laboratory experience with paid on-the-job training. This program is certified by the National Automotive Technician Education Foundation (NATEF).

#### ■ Do students who major in Automotive Technology earn additional certification?

Students are eligible for the Maintenance and Light Repair (MLR) Certificate from the Ford Motor Company, after successful completion of the first year of automotive courses.

#### ■ Are there any requirements students must satisfy before taking courses in their major?

Algebra I is a prerequisite for all majors. Algebra I competency must be verified with a passing score on the College's placement test or by completing the appropriate class. As a result of the student's performance on the College's placement test, he or she may need developmental coursework. All developmental coursework must be completed before the student will be considered for admission to the program.

#### ■ How long will it take to complete this degree?

Automotive Technology is an intensive full-time program. It includes 60 weeks spent in college classes and 30 weeks spent acquiring workplace experience. This cooperative education program takes approximately two years to complete. This program begins every other fall semester in the even numbered years.

#### ■ Questions?

Contact: Assistant Professor Thom Sabol, department chair, at 732.906.2586.

## AUTOMOTIVE TECHNOLOGY

### Associate in Applied Science (A.A.S.) Degree - AUT.AAS

*Below are required courses and recommended course groupings and sequences for program completion.  
Courses may have prerequisite and corequisite requirements. Check course descriptions for details.*

Courses	Credits	Requisites / Comments	
<b>Semester I</b>			
AUT 111	Minor Automotive Services	3	Corequisite(s): MAT 107
AUT 115	Automotive Brake Systems	2	Corequisite(s): AUT 111
AUT 117	Automotive Electrical Systems	3	Corequisite(s): AUT 111
ENG 121	English Composition I	3	A passing score on the College's placement test or a grade of "C" or better in ENG 010.
MAT 107	Mathematics I	3	Appropriate score on the College's placement test, MAT 013, MAT 013A/MAT 013B, or departmental approval. Higher level mathematics course can be substituted with departmental approval.
PED ____	Physical Education Elective	1	Students have the option of substituting Health Education Electives in place of the Physical Education Elective.
<b>Semester II</b>			
AUT 122	Analysis and Tune Up	3	AUT 111 Corequisite(s): AUT 124, AUT 126
AUT 124	Automotive HVAC Systems	3	AUT 111
AUT 126	Alignment, Suspension and Steering Systems	2	AUT 111
CSC 105	Computer Applications and Systems	3	
ENG 122	English Composition II	3	A grade of "C" or better in ENG 121
OR			
ENG 125	English Composition II: Writing About Literature		
<b>Summer I</b>			
AUT 108	Automotive Technology Work Experience I (A 15-week cooperative education course)	3	AUT 122, AUT 124, AUT 126
<b>Semester III</b>			
AUT 211	Standard Transmission and Drive Train	3	AUT 108
AUT 213	Automatic Transmission I	3	AUT 108
AUT 216	Fuel and Emission Systems	3	Corequisite(s): AUT 211 AUT 108
AUT 217	Engine Diagnostics and Repair I	3	Corequisite(s): AUT 217 AUT 108
____	General Education Humanities Elective (GE HUM)	3	Corequisite(s): AUT 216
<b>Semester IV</b>			
AUT 208	Automotive Technology Work Experience II (A 15-week cooperative education course)	3	AUT 211, AUT 213, AUT 216, AUT 217
PHY 101	Principles of Physics	4	MAT 107 or equivalent. Higher level Physics course can be substituted with departmental approval.
<b>Summer II</b>			
AUT 226	Automatic Transmission II	2	AUT 213, AUT 208
AUT 228	Engine Diagnostic and Repair II	3	AUT 217, AUT 208
AUT 229	Automotive Electricity and Electronics	3	AUT 208
____	General Education Social Sciences Elective (GE SS)	3	Corequisite(s): AUT 226, AUT 228

**Total Credits: 65**

Contact Name: Assistant Professor Thom Sabol  
 Contact Phone: 732.906.2586  
 Contact Email: [TSabol@middlesexcc.edu](mailto:TSabol@middlesexcc.edu)