



### Programs of Study

Automotive  
 Building Construction  
 Business Management-Career Option  
 Business Management-Transfer Option  
 Business Management-Small Business  
 Career Studies  
 Computer Systems Technology  
 Criminal Justice  
 Culinary Arts  
 Diesel, Truck & Heavy Equipment  
 Digital Graphic Design  
 Early Childhood Education  
 Education-Career & Technical Ed  
 Education-Elementary Ed  
 Education-Secondary Ed  
 Electrical and Automation  
 Electricians Technology  
 Emergency Medical Services  
 Fine Woodworking & Cabinet Making  
 Fire Science  
 Human Services  
 Liberal Studies  
 Medical Assistant  
 Medical Office-Coding Option  
 Medical Office-Health Care Secretary  
 Medical Radiography  
 Nursing  
 Outdoor Recreation & Tourism  
 Plumbing  
 Refrigeration, Air Conditioning & Heating  
 Restaurant & Food Service Management  
 Surgical Technology  
 Trade & Technical Occupations  
 Welding

### Admissions Office—EMCC

**354 Hogan Road**

**Bangor, ME 04401**

**Phone: 207-974-4680**

**Toll-Free: 800-286-9357 (in Maine)**

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**Email: [admissions@emcc.edu](mailto:admissions@emcc.edu)**

**[www.emcc.edu](http://www.emcc.edu)**

# Automotive Technology

## PROGRAM DESCRIPTION



Automotive Technology provides theoretical foundations, practical education, and work experience in the engineering, testing, servicing, troubleshooting and repairing of automobiles. The program is accredited by the National Automotive Technicians Education Foundation (NATEF), a division of ASE, as a Master Automotive Program in all eight areas of Automotive accreditation. The curriculum follows the NATEF standards, which helps students to prepare for ASE technician certification tests.

Graduates are employed as automotive service technicians, sales personnel, service managers, maintenance supervisors, service writers, warranty claims adjusters, and parts persons.

## KEY LEARNING OBJECTIVES

Graduates with the associate in applied science degree will function at an entry-level position for servicing, diagnosing, repairing, and creating work orders in the following areas:

- Explain and apply the legal requirements of OSHA, EPA and the State of Maine when performing the duties of a technician.
- Use acceptable public relations and customer service techniques.
- Diagnose, repair and document components of electrical/electronics, heating, ventilation and air conditioning.
- Diagnose, repair and document automotive engines and powertrain systems.
- Diagnose, repair and document components of automotive suspensions and steering systems.
- Diagnose, repair and document components of hydraulic and anti-lock brake system.
- Analyze and complete a Maine State motor vehicle inspection.

Graduates will demonstrate:

- proper public relations and customer service techniques for an independent or dealer service facility.
- an understanding and application of legal requirements including those of OSHA, EPA, and State of Maine regulations regarding the handling and disposal of hazardous materials and related safety issues.

## PREREQUISITES

**AAS Degree**-high school level Algebra I required. Algebra II, Geometry, Physics or Chemistry with Lab desired.

**Certificate**-high school level Algebra I required.

*STILL IN HIGH SCHOOL? Concurrent enrollment agreements with many high schools and technical education centers are available. Information can be found on <http://www.emcc.edu/academics/programs/dual-enrollment/>.*

**IMPORTANT NOTES:** A valid driver's license is required in order to complete all graduation requirements. Failure to furnish a valid license may have an impact on employability in the field. Questions concerning this requirement should be directed to Richard Thomas, Department Chair, at [rthomas@emcc.edu](mailto:rthomas@emcc.edu) or 207-974-4805. EMCC does not currently conduct criminal background screening for applicants to Automotive Technology; however, individuals who have engaged in certain criminal activity could be denied access to gainful employment in their intended field. Additionally, licensing boards for certain professions may deny the individual the opportunity to sit for an examination if they have been convicted of certain crimes. Individuals who have engaged in any activity which may be considered abuse, neglect or exploitation of a minor or of an incapacitated or dependent adult, or who have been convicted of any crime involving fraud or dishonesty, or drugs, or for which imprisonment of one year or more has been imposed are urged to seek clarification from the Director of Admissions prior to an application submission.

## AUTOMOTIVE TECHNOLOGY Associate in Applied Science Degree

### FIRST SEMESTER

ATA100	Automotive Safety and Light Vehicle Repair	4
ATA110	Automotive Basic Electrical Systems	3
ATA120	Automotive Shop Management	2
ATA124	Automotive State Inspection Prep	1
ENG101	College Composition	3
MAT113	Technical Mathematics I	3

### CREDITS

### SECOND SEMESTER

ATA125	Automotive Steering and Suspension I	2
ATA126	Automotive Steering and Suspension II	2
ATA145	Automotive Brake Systems I	2
ATA146	Automotive Brake Systems II	2
ATA150	Automotive Engine Repair	3
MAT114	Technical Mathematics II	3
Restricted Elective: Any Humanities or Social Science (100 level or higher)		3

### CREDITS

### SUMMER SEMESTER

ATA190	Automotive Internship	3
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### CREDITS

### THIRD SEMESTER

ATA210	Advanced Automotive Electrical Systems	3
ATA215	Manual Transmissions and Driveline	3
ATA220	Engine Performance and Diagnosis	3
Restricted Elective: Any Humanities or Social Science (100 level or higher)		3
Restricted Elective: Any Lab Science (100 level or higher)		4

### CREDITS

### FOURTH SEMESTER

ATA225	Automotive Heating and Air Conditioning	3
ATA230	Drivability and Emission Controls	3
ATA235	Automotive Transmissions and Transaxles	3
WEL265	Gas Metal Arc Welding Basic	1
ENG215	Business and Technical Writing	3

### CREDITS

### TOTAL AAS DEGREE CREDITS

**65**

## AUTOMOTIVE BASIC SYSTEMS Certificate

### FIRST SEMESTER

ATA100	Automotive Safety & Light Vehicle Repair	4
ATA110	Automotive Basic Electrical Systems	3
ATA120	Automotive Shop Management	2
ATA124	Automotive State Inspection Prep	1
ENG101	College Composition	3
MAT113	Technical Mathematics I	3

### CREDITS

### SECOND SEMESTER

ATA125	Automotive Steering and Suspension I	2
ATA126	Automotive Steering and Suspension II	2
ATA145	Automotive Brake Systems I	2
ATA146	Automotive Brake Systems II	2
ATA150	Automotive Engine Repair	3
MAT114	Technical Mathematics II	3
Restricted Elective: Any Humanities or Social Science (100 level or higher)		3

### CREDITS

### TOTAL CERTIFICATE CREDITS

**33**

*The Automotive program is offered in an **evening** format beginning every other year; with the next evening program beginning fall 2019. Day programs start each fall (with an option to begin general education classes in the spring). Ask about these alternative options!*

## DID YOU KNOW?

EMCC provides campus housing  
for over 260 students.



EMCC's Student Success Center  
offers tutoring services free of  
charge to our students.



EMCC's Athletic  
Department sponsors  
many on-campus  
intramural sports and  
recreational events.

EMCC students enjoy small class  
sizes, supportive faculty,  
transferable courses and  
leadership/engagement  
opportunities all for under \$4,000  
per year

(most programs, based on 30 credit  
hours, in-state rate)

Campus tours are available.  
Call 207-974-4857 or schedule  
an appointment through our  
website.

For more information or to apply  
online, visit us on the web at

[www.emcc.edu](http://www.emcc.edu)

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*EMCC is an equal opportunity/affirmative  
action institution and employer. For more info,  
please call 207-974-4633.*