

# Diesel, Truck & Heavy Equipment

## PROGRAM DESCRIPTION



The Diesel, Truck and Heavy Equipment Technology program provides theoretical foundations, practical education, and work experience in servicing, troubleshooting and repairing of trucks, diesel engines and heavy equipment. The curriculum is design to ensure that course content is pertinent to the needs of industry. Recent graduates are employed as heavy equipment service technicians, sales personnel, service managers, maintenance supervisors, service writers, warranty claims adjusters, and parts persons.

Students are tested in standard written tests as well as hands-on testing that coincide with the assigned textbook, industry standards in each area. Students must pass within the C range or better to pass each module.

## KEY LEARNING OBJECTIVES

Graduates with the associate in applied science degree in will function at an entry-level position for servicing, diagnosing, repairing and creating work orders. Graduates will be prepared to diagnose, repair and document:

- Components of electrical and electronics systems
- Components of suspension, brakes, and drivetrains
- Components of diesel and heavy duty engines
- Hydraulic systems
- Components of air conditioning systems

## PREREQUISITES

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

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

**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 Lowell Gardner, Department Chair, at [lgardner@emcc.edu](mailto:lgardner@emcc.edu) or 207-974-4767.



EMCC does not currently conduct criminal background screening for applicants to Diesel, Truck & Heavy Equipment; 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 on year or more has been imposed are urged to seek clarification from the Director of Admissions prior to an application submission.

*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>.



## 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)

FAX: 207-974-4683

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

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

## DIESEL, TRUCK & HEAVY EQUIPMENT Associate in Applied Science Degree

<b>FIRST SEMESTER</b>	<b>CREDITS</b>
ATH 101 Shop Orientation & Safety I: Heavy Equipment / Truck I	1
ATH 113 Heavy Equipment/Truck Braking Systems	3
ATT 133 Basic Electrical Systems	3
ATT 135 Advanced Electrical Systems	2
ATH 163 Heavy Equipment/Truck Steering & Suspension Systems	3
ENG101 College Composition	3
MAT 113 Technical Mathematics I	3
<b>SECOND SEMESTER</b>	<b>CREDITS</b>
ATH 103 Minor Repairs: Heavy Equipment/Truck	2
ATH 121 Heavy Equipment/Truck Drive Trains	4
ATH 175 Motor Vehicle Inspection	2
ATT 251 Automotive Basic Machine Shop Principles	2
Restricted Elective: Any Social Science/Humanities	3
SPE 101 Oral Communication	3
<b>THIRD SEMESTER</b>	<b>CREDITS</b>
ATH 131 Diesel Engines (Heavy, Gas)	4
ATH 133 Diesel Engine Diagnosis & Tune-up (Heavy, Gas)	3
ATH 141 Diesel Fuel Systems	3
WEL 265 Gas Metal Arc Welding (GMAW), Basic	1
ENG 215 Business and Technical Writing	3
CHE 100 Chemistry for Everyday Living or PHY 108 Survey of Applied Physics	4
<b>FOURTH SEMESTER</b>	<b>CREDITS</b>
ATT 141 Heating and Air Conditioning	3
ATH 151 Hydraulic Systems	3
ATH 211 Shop Management: Heavy Equipment/Truck	2
ATH 273 Exhaust After Treatment System / Alternate Fuels	1
Restricted Elective: Any Humanities or Social Science (100 level or higher)	3
<b>TOTAL AAS DEGREE CREDITS</b>	<b>64</b>

## HEAVY TRUCK AND EQUIPMENT SYSTEMS Certificate

<b>FIRST SEMESTER</b>	<b>CREDITS</b>
ATH 101 Shop Orientation & Safety I: Heavy Equipment/Truck I	1
ATH 113 Heavy Equipment/Truck Braking Systems	3
ATH 133 Basic Electrical Systems	3
ATT 135 Advanced Electrical Systems	3
ATH 163 Heavy Equipment/Truck Steering & Suspension Systems	3
ENG 101 College Composition	3
MAT 113 Technical Mathematics I	3
<b>SECOND SEMESTER</b>	<b>CREDITS</b>
ATH 103 Minor Repairs: Heavy Equipment/Truck	2
ATH 121 Heavy Equipment/Truck Drive Trains	4
ATH 175 Motor Vehicle Inspection	2
ATT 251 Automotive Basic Machine Shop Principles	2
Restricted Elective: Any Humanities or Social Science	3
<b>TOTAL CERTIFICATE CREDITS</b>	<b>31</b>

## 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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action institution and employer. For more info,  
please call 207-974-4633.*