

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; and
- components of air conditioning systems.

PREREQUISITES

AAS Degree-high school level Algebra I required. Algebra II, Geometry, and either 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 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 one 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 Repair Technology
Computer Technology—Coding Option
Computer Technology—Networking
Criminal Justice
Culinary Arts
Diesel, Truck & Heavy Equipment
Digital Graphic Design
Early Childhood Education
Education-Career & Technical Education
Education-Elementary Education
Education-Experiential Education
Education-Secondary Education
Electrical and Automation Technology
Electricians Technology
Emergency Medical Services
Fine Woodworking & Cabinet Making
Fire Science
Human Services
Liberal Studies
Medical Assistant
Medical Office Technology
Medical Office Technology-Coding Option
Medical Office-Health Care Secretary
Medical Radiography
Nursing
Plumbing
Refrigeration, Air Conditioning & Heating
Restaurant & Food Service Management
Substance Abuse Rehabilitation Tech
Surgical Technology
Trade & Technical Occupations
Welding

Admissions Office—EMCC

354 Hogan Rd, Bangor, ME 04401

Phone: 207-974-4680

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

FAX: 207-974-4683

Email: admissions@emcc.edu

DIESEL, TRUCK & HEAVY EQUIPMENT Associate in Applied Science Degree

FIRST SEMESTER	CREDITS
ATH 101 Shop Orientation & Safety I: Heavy Equipment / Truck I	1
ATH 113 Heavy Equipment/Truck Braking Systems	3
ATH 163 Heavy Equipment/Truck Steering & Suspension Systems	3
ATT 133 Basic Electrical Systems	3
ATT 135 Advanced Electrical Systems	2
ENG101 College Composition	3
MAT 110 Technical Mathematics I	3
SECOND SEMESTER	CREDITS
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 Math or Science	3-4
SPE 101 Oral Communication	3
THIRD SEMESTER	CREDITS
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
Restricted Elective: Any Humanities or Social Science	3
FOURTH SEMESTER	CREDITS
ATT 141 Heating and Air Conditioning	3
ATH 151 Hydraulic Systems	3
ATH 212 Shop Management: Heavy Equipment/Truck	1
ATH 274 Exhaust Aftertreatment System / Alternate Fuels	2
Restricted Elective: Any Humanities or Social Science	3
TOTAL AAS DEGREE CREDITS	63-64

^ELO Capstone

HEAVY TRUCK AND EQUIPMENT SYSTEMS Certificate

FIRST SEMESTER	CREDITS
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
ATH 163 Heavy Equipment/Truck Steering & Suspension Systems	3
ATT 135 Advanced Electrical Systems	3
ENG 101 College Composition	3
MAT 110 Technical Mathematics I	3
SECOND SEMESTER	CREDITS
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
TOTAL CERTIFICATE CREDITS	31

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**

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