

Career and Technical Education

Associate of Applied Science — Diesel Technology

Student Learning Outcomes

Diesel Technology is a complex field and demands highly skilled technicians. Completion of the program prepares students with specialized training in the repairing, maintaining, troubleshooting, reconditioning, and rebuilding of diesel vehicles and equipment. GBC's program includes extensive classroom lecture and laboratory training on state-of-the-art equipment, as well as training in customer service and report writing.

Graduates of the AAS in Diesel Technology Program will have the knowledge and skills to:

- Analyze and solve problems related to heavy equipment operation.
- Identify diesel engine design and maintain, repair, and troubleshoot them.
- Demonstrate proper use of tools related to the repair and maintenance of heavy equipment.
- Identify, repair, and maintain mobile equipment with hydraulic systems.
- Perform safely in the work environment, meeting and obeying all workplace safety requirements.

Formal admission to this program is required. Refer to page 86 for an outline of admission standards.

General Education Requirements	Credits
English/Communications.....	6
Mathematics.....	3
MATH 116, 120, 126 or higher, or STAT 152	
Science—PHYS 107 (recommended).....	3
Social Science—PSC 101	3
Human Relations	
BUS 110 (recommended)	3
Humanities or Fine Arts	3
ART 107 or MUS 125 (recommended)	
Technology—DT 101 (required)	(3)

List of courses fulfilling general education requirements is on page 81.

Program Requirements	Credits
DT 100 Shop Practices.....	2
DT 101 Basic Diesel Engines.....	4
DT 102 Basic Vehicle Electronics	8
DT 105 Mobile Air Conditioning	2
DT 106 Heavy Duty Transmission and Power Train.....	7.5
DT 201 Diesel Brakes and Pneumatics	2.5
DT 215 Electronic Diesel Engines.....	8
IT 208 Fluid Power	8
WELD 136 Welding for the Maintenance Technician I.....	3
WELD 235 Welding for the Maintenance Technician II	3

SUGGESTED COURSE SEQUENCE AAS—Diesel Technology

FALL—1st Semester	Credits
DT 100	2
DT 101	4
DT 102	8
DT 215	8
ENGLISH*	3
MATH 116, 120, 126 or higher, or STAT 152	3
PSC 101	3
WELD 136	3
HUMAN RELATIONS	3
HUMANITIES/FINE ARTS*	3
TOTAL	40

SPRING—2nd Semester	Credits
DT 105	2
DT 106	7.5
DT 201	2.5
ENGLISH*	3
IT 208	8
SCIENCE*	3
WELD 235	3
TOTAL	29.5

Refer to page 81. Minimum Credits: 69.5
***Choose with advisor.**

After the AAS in Diesel Technology, the next step could be the Bachelor of Applied Science in Management and Supervision Emphasis. See page 105.