

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
GBC Orientation	0.5
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
INT	100	0.5
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		40.5

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

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.