DIESEL TECHNOLOGY

The diesel technology program will teach students the basic knowledge and skills needed to service and repair diesel and gas-powered equipment. As a student in the diesel technology program, will learn the latest diesel repair and diagnostic techniques using up-to-date equipment. Instruction is provided in state of the industry facilities using actual components and equipment.

(Enrollment into this program is limited and is based on the date of application.)

Required Program of Study for
Associate of Applied Science Degree (2 years)

Core Requirements

Course	Credits
DESL 1095 Shop Processes and Safety	2
DESL 1300 Cooperative Internship I	6
WELD 1010 Related Welding	0.5
WELD 1020 Related Welding Lab	1
DESL 1010 Electrical Systems Theory	2.5
DESL 1015 Electrical Systems Lab	3.5
DESL 1065 Air Conditioning Theory	2.5
DESL 1072 Air Conditioning Lab	3.5
	21.5

General Education Requirements

Course	Credits
CAPL 1290 Introduction to Job Search and Employment*	1
INFO 1000 Basic Computer Applications*	2
MATH 1020 Technical Mathematics I*	3
ECON 1010 Personal and Business Finance*	2
PSYC 1000 Human Relations*	2
ENGL 1050 Workplace Communication*	3
INDT 1040 Industrial Process Dynamics **OR** HVAC 2230 Physics of Building*	2
	15

Core Requirements	21.5
General Education Requirements	15
Approved Electives	36-38
Total Credits	**72.5-74.5**

Approved Electives for
Agriculture Concentration

Course	Credits
DESL 1055 Ag Power Trains and Farm Machines Theory	5
DESL 1082 Ag Power Trains and Farm Machines Lab	7
DESL 2015 Ag Electronics Theory	2.5
DESL 2035 Ag Electronics Lab	3.5
DESL 2070 Hydraulics Theory	2.5
DESL 2085 Hydraulics Lab	3.5
DESL 2030 Ag Engines and Fuel Systems Theory	5
DESL 2045 Ag Engines and Fuel Systems Lab	7
	36

Approved Electives for
Truck Concentration

Course	Credits
DESL 1145 Truck Hydraulic Systems	2
DESL 1172 Truck Brakes, Suspension, and Steering Systems Theory	5
DESL 1182 Truck Brakes, Suspension, and Steering Systems Lab	7
DESL 2132 Truck Engines and Fuel Systems Theory	5
DESL 2135 Truck Engines and Fuel Systems Lab	7
DESL 2115 Truck Power Trains Theory	2.5
DESL 2125 Truck Power Trains Lab	3.5
DESL 2170 Transportation Refrigeration Theory	2.5
DESL 2185 Transportation Refrigeration Lab	3.5
	38

View Full Catalog: https://northeast.edu/catalog

DIESEL TECHNOLOGY - AGRICULTURE CONCENTRATION

The diesel agriculture concentration will teach basic knowledge and skills needed to service and repair diesel and gas-powered equipment. In addition to classroom study, students receive over 1,000 hours of lab training and 360 hours of actual experience through a summer cooperative internship program.

Students will learn to repair and test diesel fuel systems, engines, hydraulic systems, electronic control systems, power trains, brakes, electrical systems, and air conditioning systems, as well as gaining experience with various hand tools and test equipment. Related courses in math, computers, communications, human relations, and personal and business finance are included to prepare students for the world of work and to enhance technical skills. Classes are held Monday through Thursday, allowing for a three-day weekend.

(Enrollment in this program is limited and is based on the date of application.)

Required Program of Study for
Associate of Applied Science Degree (2 years)

FIRST YEAR

Fall Semester

Course	Credits
DESL 1010 Electrical Systems Theory	2.5
DESL 1015 Electrical Systems Lab	3.5
DESL 1065 Air Conditioning Theory	2.5
DESL 1072 Air Conditioning Lab	3.5
DESL 1095 Shop Processes and Safety	2
MATH 1020 Technical Mathematics I*	3
	17

Spring Semester

Course	Credits
DESL 1055 Ag Power Trains and Farm Machines Theory	5
DESL 1082 Ag Power Trains and Farm Machines Lab	7
CAPL 1290 Introduction to Job Search and Employment*	1
ENGL 1050 Workplace Communication*	3
WELD 1010 Related Welding	0.5
WELD 1020 Related Welding Lab	1
	17.5

Summer

Course	Credits
DESL 1300 Cooperative Internship I	6
	6

SECOND YEAR

Fall Semester

Course	Credits
DESL 2015 Ag Electronics Theory	2.5
DESL 2035 Ag Electronics Lab	3.5
DESL 2070 Hydraulics Theory	2.5
DESL 2085 Hydraulics Lab	3.5
PSYC 1000 Human Relations*	2
ECON 1010 Personal and Business Finance*	2
	16

Spring Semester

Course	Credits
DESL 2030 Ag Engines and Fuel Systems Theory	5
DESL 2045 Ag Engines and Fuel Systems Lab	7
INDT 1040 Industrial Process Dynamics **OR** HVAC 2230 Physics of Building*	2
INFO 1000 Basic Computer Applications*	2
	16

Total Credit Hours   72.5

*See general education requirements.