

# Diesel Technology

## Associate of Applied Science Degree

### 2009-10 Academic Year

Major Code: 470605D

#### About the Program

The Diesel Technology Associate of Applied Science degree program is designed for students seeking a career in today's diesel repair industry. The program builds rapidly from fundamentals and theory into diagnosis and repair of today's modern equipment based upon Automotive Service Excellence (ASE) and industrial standards.

The design of the program places heavy emphasis upon actual hands-on work in diesel labs. Approximately two-thirds of the time spent in the program is in a lab (shop) environment where the student applies theory to diagnosis and repair of a wide variety of equipment. As the level of student skill develops, so does the difficulty of repairs performed.

#### Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by the placement test scores. In addition, students may also be required to enroll in classes that would increase their employability and success.

#### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. High school "2+2" Early College Credit will be accepted in accordance with current agreement. Verified Automotive Service Excellence (ASE) certification or industry experience may be substituted for some coursework in accordance with college policy and the department head's approval.

#### Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C" or better grade. Note: Effective summer term 2009, many general education courses went from three to four credits. The three-credit version of any art, writing, speech, humanities, or social science course will meet the same degree requirements as the new four-credit version. Students must still complete all required courses in this degree and at least 90 applicable credits to receive an associate degree.

#### Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra (or designated placement test score as shown on current indicator chart)	4
RD30	College Reading II (or designated placement test score as shown on current indicator chart)	4
WR30	Fundamentals of Composition II (or designated placement test score as shown on current indicator chart)	4

#### General Education Requirements

Course No.	Course Title	Credits
CS120	Concepts in Computing I or higher level course (or documented computer proficiency) <sup>1</sup>	0-4
LIB127	Introduction to Library Research Methods	1
MTH60	Fundamentals of Algebra I or	
MTH63	Applied Technical Math or higher level math	4
PSY101	Psychology of Human Relations or	
BT101	Human Relations in Organizations	3
SP100	Basic Communication or	
SP111	Fundamentals of Public Speaking <sup>2</sup>	3-4

Course No.	Course Title	Credits
BT113	Business English I or higher level writing or	
WR115	Introduction to Expository Writing or higher level composition	3
9.167	Emergency First Aid or	
HE261	CPR or	
HE252	First Aid/CPR	1-3
<b>TOTAL GENERAL EDUCATION CREDITS</b>		<b>15-22</b>

#### First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
DS113	Diesel Engine Overhaul	6
DS120	Diesel Trades Practices	6
		12
<b>Second Term</b>		
DS111	Basic Electricity for Diesel Technicians I	7
DS141	Heavy Equipment Power Trains	5
		12
<b>Third Term</b>		
DS131	Diesel Engine Dynamics and Diagnosis	5
DS134	Basic Electricity for Diesel Technicians II	4
DS151	Heavy Equipment Brakes	6
		15
<b>Fourth Term (Summer)</b>		
DS232	Heavy Equipment Fuel Systems	4
DS270	Air Conditioning for Diesel Technicians	5
		9
<b>TOTAL FIRST YEAR CREDITS</b>		<b>48</b>

#### Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
DS160	Heavy Equipment Suspension and Steering Systems	6
DS190	Diesel Repair Lab I or	
DS290	Diesel Repair Lab II	3
WLD111	Technology of Industrial Welding I	6
		15
<b>Sixth Term</b>		
DS233	Computerized Engine Management Systems	7
DS280	Cooperative Work Experience/Diesel <sup>3</sup> or	
DS290	Diesel Repair Lab II (if not taken in fifth term)	3-4
		10-11
<b>Seventh Term</b>		
BA109	Ready, Set, Work: Techniques for Landing a Job	2
DS260	Hydraulic Systems	4
DS275	Preventative Maintenance Inspection	6
		12
<b>TOTAL SECOND YEAR CREDITS</b>		<b>37-38</b>
<b>TOTAL PROGRAM CREDITS</b>		<b>100-108</b>

## Approved Program Electives

Course No.	Course Title	Credits
DS112	Gasoline Engines Rebuild	6
DS199	Selected Topic Workshop	1-8
DS214	PUC Testing Preparation Workshop	1
DS280	Cooperative Work Experience/Diesel	variable
DS290	Diesel Repair Lab II (if not taken in sixth term)	3
DS295	ASE Certification Preparation	1
GS104	Physical Science w/lab	4
WLD112	Technology of Industrial Welding II	6

<sup>1</sup> Successful completion of CS101 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement.

<sup>2</sup> Three to four credits of writing (BT114 or WR121) may be substituted.

<sup>3</sup> Can be taken anytime during the program with permission of advisor.

For more information contact the Diesel Technology Department:

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This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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