

**Diesel Mechanics (DEM)  
 Certificate  
 M.A.P.**

Semester	Suggested Courses	Semester(s) Offered*	Credit Hrs.
<b>Semester 1</b> 17 credit hours <i>Basic Maintenance STC Achieved</i>	DEM 104 Basic Engines	Fall	3
	DEM 105 Preventive Auxiliary Services	Fall	3
	DEM 111 Equipment Safety/ Mechanical Fundamentals	Fall	3
	DEM 129 Basic Engine Lab	Fall	3
	DEM 130 Electrical/Electronic Fundamentals	Fall	3
	ORI 101 Orientation to College	Fall, Spring, Summer	2
<b>Semester 2</b> 18 credit hours <i>Advanced Maintenance STC Achieved</i>	DEM 113 Trailer Maintenance and Inspection	Spring	3
	DEM 122 Heavy Vehicle Brakes	Spring	3
	DEM 123 Pneumatics and Hydraulics	Spring	3
	DEM 125 Heavy Vehicle Drive Trains	Spring	3
	DEM 135 Heavy Vehicle Steering and Suspension	Spring	3
	MTH 100 <i>or</i> MTH 116 Intermediate College Algebra <i>or</i> Mathematical Applications	Fall, Spring, Summer	3
<b>Semester 3</b> 18 credit hours <i>Engine Specialist STC Achieved</i>  <i>Diesel Mechanics Certificate Achieved</i>	DEM 124 Electronic Engine Systems	Summer	3
	DEM 126 Advanced Engine Analysis	Summer	3
	DEM 127 Fuel Systems	Summer	3
	DEM 137 Heating, Air Conditioning, and Refrigeration Systems	Summer	3
	ENG 101 English Composition I	Fall, Spring, Summer	3
	SPH 106 <i>or</i> SPH 107 Fundamentals of Oral Communication <i>or</i> Fundamentals of Public Speaking	Fall, Spring, Summer	3
<b>Total Hours</b>			<b>53</b>

\*Course(s) may be offered in additional semesters but are only assured to run in semester(s) indicated. It is **highly** recommended for course(s) to be completed in the semester(s) indicated.

Part-time students and full-time students desiring to begin the DEM program of study during a spring or summer semester should consult with an academic advisor to establish an alternate degree completion pathway.