# Program of Study

**Career Field:** Industrial, Manufacturing, and Engineering Systems  
**Career Cluster:** Transportation, Distribution, and Logistics  
**Career Pathway:** Facility and Mobile Equipment Maintenance

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>GENERAL ELECTIVES</th>
<th>PATHWAY ELECTIVE COURSES</th>
<th>EXTENDED LEARNING SCHOOL/COMMUNITY ACTIVITIES</th>
</tr>
</thead>
</table>
| 9      | English/Language Arts I | Algebra I | Physical Science | Geography | World Languages & Cultures  
Physical Education | Intro to the Transportation, Distribution & Logistics Industry  
Mobile Equipment Preventative Maintenance Systems/Basic Care Mobile Equipment Maintenance & Repair |
| 10     | English/Language Arts II | Geometry | Biology | World History | Computer Aided Drafting (CAD)  
Diesel Mechanics  
Information Technology Applications I  
Welding |
| 11     | English/Language Arts III | Algebra II | Chemistry | American History | |
| 12     | English/Language Arts IV | Intro to Statistics  
Descrete Math  
Pre-Calc | Physics | American Government or Economics | |

**COMMUNICATIONS**  
**MATH/SCIENCE**  
**SOCIAL SCI/HUMANITIES**  
**COMPUTER TECHNOLOGY**  
**FOCUS COURSES**

| 13 and 14 | Public Speaking | Business Mathematics | Interpersonal Relations | Microsoft Applications | Basic Electrical | Cranking Motors & Ignition Systems | Charging Systems | Power Trains I | Hand & Precision Measuring Tools  
Oxyacetylene and Arc Welding |
|-----------|----------------|----------------------|------------------------|----------------------|----------------|----------------------------------|-----------------|-------------|--------------------------------------------------------|
|           | Written Communications | College Algebra | Personal Finance | Computer Literacy | Theory of Engine Operation | Theory of Fuel System Operation | Valve Trains | Diesel Engine Overhaul & Inspection  
Diesel & LPG Fuel Systems I  
Basic Cab Air Conditioning |
|           | Descriptive Physics | Diesel Fuel Injection Systems II | Mobile Hydraulics | Diesel Fuel Injection Systems Lab | Post-Cooperative Education Seminar | Cooperative Education | Farm Equip Diesel Engine Tune-up & Diagnosis |
|           | Farm Equipment Electricity | Farm Equipment Power Trains | Advanced Air Conditioning | Planting Equipment | Harvesting Equipment | Tillage & Spraying Equipment |

**Southeast Community College**  
**DEGREE:** Diesel Technology- Farm  
[http://www.southeast.edu/programs/DESLF/default.aspx](http://www.southeast.edu/programs/DESLF/default.aspx)

**School Activities:** SkillsUSA, Ford/AAA Auto Skills, OPPD/NPPD, PowerDrive, DECA, FFA, Math Club  
**Community Activities:** Learn to drive a tractor or truck, Learn automotive repair and maintenance, Read automotive and mechanical magazines, Take Drivers Education, Learn to operate a forklift

6/21/2010