## Program of Study

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

### Southeast Community College
**DEGREE:** Automotive Technology  
[http://www.southeast.edu/programs/Auto/default.aspx](http://www.southeast.edu/programs/Auto/default.aspx)

### High School

<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>
<tbody>
<tr>
<td>9</td>
<td>English/Language Arts I</td>
<td>Algebra I</td>
<td>Physical Science</td>
<td>Geography</td>
<td>World Languages &amp; Cultures</td>
<td>Intro to the Transportation, Distribution &amp; Logistics Industry</td>
<td>School Activities: SkillsUSA, Ford/AAA Auto Skills, OPPD/NPPD, PowerDrive, DECA, FFA, Math Club</td>
</tr>
<tr>
<td>10</td>
<td>English/Language Arts II</td>
<td>Geometry</td>
<td>Biology</td>
<td>World History</td>
<td>Physical Education</td>
<td>Health Education</td>
<td>Entrepreneurship Automotive Repair</td>
</tr>
<tr>
<td>11</td>
<td>English/Language Arts III</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>American History</td>
<td>Computer Aided Drafting (CAD)</td>
<td>Diesel Mechanics</td>
<td>Information Technology Applications I</td>
</tr>
<tr>
<td>12</td>
<td>English/Language Arts IV</td>
<td>Intro to Statistics</td>
<td>Descrete Math Pre-Calc</td>
<td>Physics</td>
<td>American Government or Economics</td>
<td>Welding</td>
<td></td>
</tr>
</tbody>
</table>

### Southeast Community College

#### Communications
- Public Speaking  
- Written Communications

#### Math/Science
- Business Mathematics  
- Descriptive Physics

#### Social Sci/Humanities
- Interpersonal Relations  
- Personal Finance

#### Degree Requirements
- Shop Procedures  
- HVAC I  
- Engine Theory

#### Focus Courses
- Welding  
- Automotive Fuel and Control Systems  
- Engine II

- Shop Safety & Repair  
- Manual Transmission/Transaxle Theory  
- Automotive Ignition Systems

- Drive Trains  
- Steering & Suspension  
- Automotive Electronics I

- Automotive Brake Systems  
- Automotive Electricity  
- Advanced Engine Performance

- Electrical Concepts  
- HVAC II  
- Automotive Electronics II

### 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

---

2/11/2011