## Program of Study

**Career Field:** Industrial, Manufacturing, and Engineering Systems  
**Career Cluster:** Architecture and Construction  
**Career Pathway:** Construction

### Mid Plains Community College

**DEGREE:** Electrical Technology  
http://programs.mpcc.edu/Electrical_Technology.html

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<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 and Cultures</td>
<td>Intro to the Built Environment</td>
<td>School Activities: SkillsUSA, OPPD/NPPD Power Drive, FFA, Math Club, MATHCOUNTS</td>
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<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>Plus two from the following list:</td>
<td>Community Activities: Connect with architects in your area, Do home repair projects, Learn about the history of the buildings in your community, Work with a contractor, Part-time employment available within this career cluster</td>
</tr>
<tr>
<td>11</td>
<td>English/Language Arts III</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>American History</td>
<td>Information Technology Applications I</td>
<td>Construction Drafting</td>
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<tr>
<td>12</td>
<td>English/Language Arts IV</td>
<td>Intro to Statistics/Descrete Math</td>
<td>Physics</td>
<td>Manufacturing/Woodworking</td>
<td>CAD (Computer Aided Drafting)</td>
<td>Electricity in the Construction Industry</td>
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</tbody>
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### COMMUNICATIONS

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL SCI/HUMANITIES</th>
<th>DEGREE REQUIREMENTS</th>
<th>MAJOR COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 and 14</td>
<td>Basic Technical Communications</td>
<td>General Math B</td>
<td>Personal Finance</td>
<td>Safety</td>
<td>Direct Current Fundamentals</td>
<td>Applied Math</td>
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<td></td>
<td>Fund of Speech Communication</td>
<td></td>
<td></td>
<td>Alternating Current Advanced</td>
<td>Electric Motor Controls</td>
<td>Programmable Logic Controls</td>
</tr>
</tbody>
</table>

### Mid Plains Community College

**DEGREE REQUIREMENTS:**

- Safety
- Direct Current Fundamentals
- Direct Current Advanced
- Alternating Current Fundamentals
- Applied Math
- Alternating Current Advanced
- Electric Motor Controls
- Electric Motor Controls Advanced
- Construction Wiring
- Programmable Logic Controls
- Electronics for Ind. Electricians
- Variable Frequency Drives
- 4 hrs of Electives