# Program of Study

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

## Northeast Community College

**Degree:** Utility Line  

### High School

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<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>
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</table>
| 9     | English/Language Arts I        | Algebra I        | Physical Science     | Geography       | World Languages and Cultures  
Physical Education  
Health Education  
Information Technology Applications I  
Entrepreneurship  
CAD (Computer Aided Drafting)  
Construction Drafting  
Housing and Home Furnishing Manufacturing/Woodworking | Intro to Built Environment  
Plus two from the following:  
- Principles of Construction  
- Applications in Construction  
- Electricity in the Construction Industry  
- Electricity-Comprehensive |  
School Activities:  
- FFA, SkillsUSA, OPPD/NPPD Power Drive, Math Club, Mathcounts  
Community Activities:  
- Connect with architects  
- Do home repair projects  
- Work with a contractor  
- Learn about history of building in your community  
- Part-time job within career cluster  
- Internship within career cluster |
| 10    | English/Language Arts II       | Geometry         | Biology              | World History   |                                                                                   |                                                                                           |                                              |
| 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

<table>
<thead>
<tr>
<th>GRADE</th>
<th>COMMUNICATIONS</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL SCI/HUMANITIES</th>
<th>DEGREE REQUIREMENTS</th>
<th>MAJOR COURSES</th>
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<td>Applied Mathematics I</td>
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<td></td>
<td></td>
<td>Concepts of Electricity I and Lab</td>
<td>Line Construction I and Lab</td>
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<tr>
<td></td>
<td>Applied Mathematics II</td>
<td></td>
<td></td>
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<td>Concepts of Electricity II and Lab</td>
<td>Ropes and Riggings</td>
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6/14/2010