# Northeast Community College

## Program of Study

**Career Field:** Industrial, Manufacturing and Engineering Systems  
**Career Cluster:** Science, Technology, Engineering and Mathematics  
**Career Pathway:** Science and Math

### 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>
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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)  
Principles of Design  
Principles of Construction  
Housing and Home Furnishings | Intro to the Built Environment  
The Language of Architecture and Construction  
Principles of Maintenance and Operations |  |
| 10    | English/Language Arts II | Geometry | Biology | World History |  |  |  |
| 11    | English/Language Arts III | Algebra II | Chemistry or other science course | American History |  |  |  |
| 12    | English/Language Arts IV | Intro to Statistics Descrete Math Pre-Calc | Physics | American Government or Economcis |  |  |  |

### Communications and Math

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>English Composition I</td>
<td>Analytic Geometry and Calculus I</td>
<td>General Chemistry I</td>
<td>General Physics I</td>
<td>English Composition II</td>
<td>Professionalism in Science</td>
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<tr>
<td>Fund. of Communication</td>
<td>Analytic Geometry and Calculus II</td>
<td>General Chemistry II</td>
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</tbody>
</table>
| Ordinary Differential Equations | General Physics II and Lab | 1 Approved Science elective | Art History | World History | Programming Fundamentals I  
Lifestyles Assessment  
Statics |
| Analytic Geometry and Calculus III | General Physics II Lab | European Civilization |  |  | Technical Communications  
Applied Dynamics  
Lifestyles Management |

6/14/2010