# Program of Study
**Career Field:** Industrial, Manufacturing and Engineering Systems  
**Career Cluster:** Manufacturing  
**Career Pathway:** Maintenance, Installation, and Repair

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<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
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<th>SOCIAL STUDIES</th>
<th>GENERAL ELECTIVES</th>
<th>PATHWAY ELECTIVE COURSES</th>
<th>EXTENDED LEARNING SCHOOL/COMMUNITY ACTIVITIES</th>
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| 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 | 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 | School Activities:  
SkillsUSA, OPPD/NPPD Power Drive, FFA, Math Club, MATHCOUNTS  
Community Activities:  
Do home repair projects  
Learn about history of the buildings in your community  
Work with a contractor  
Part-time employment within career cluster |
| 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 Economics | | | |

## Communications

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<tr>
<th>COMMUNICATIONS</th>
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<th>DEGREE REQUIREMENTS</th>
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<td>Basic Electricity and Lab</td>
<td>Wind Energy Fundamentals</td>
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<td>Fluid Fundamentals Theory and Lab</td>
<td>Mechanical Systems for Wind Energy</td>
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<td>Electrical and Operations Safety for Wind Energy</td>
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<td>Motor Controls Theory and Lab</td>
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<td>Cooperative Internship</td>
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Northeast Community College  
DEGREE:  
Wind Energy  
http://www.northeast.edu/Degrees-and-Programs/Wind-Energy

6/14/2010