## 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>
</thead>
</table>
| 9     | English/Language Arts I | Algebra I | Biology | Geography | World Languages and Cultures  
Physical Education  
Entrepreneurship  
CAD (Computer Aided Drafting)  
Engineering Technology  
Industrial Technology  
Information Technology App. I | Schools may define their own program of study with a career focus and apply for approval |
| 10    | English/Language Arts II | Geometry | Chemistry | World History | |
| 11    | English/Language Arts III | Algebra II | Physics | American History | |
| 12    | English/Language Arts IV | Intro to Statistics  
Discrete Math  
Pre-Calc | AP Science | American  
Government or Economics | |

### Western Nebraska Community College

**DEGREE:**  
Physics (AS.4008)  
http://www.wncc.net/programs/majors/PHYS.html

<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>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>English Composition 1</td>
<td>Calculus 1</td>
<td>General Chemistry 1</td>
<td>2 Physical Education class</td>
<td></td>
</tr>
</tbody>
</table>
| 14            | English Composition 2 | Calculus 2 | General Chemistry 2 | 2 Electives | Physics 1 with Calculus  
Physics 2 with Calculus |
| 14            | Human Communication | Calculus 3 | |

**WNCC**  
13  
14

**6/14/2010**