# Aerospace Engineering

## Program of Study

### Career Cluster: Science, Technology, Engineering & Mathematics

### Career Pathway: Engineering and Technology

This Academic Plan is based upon the state requirements needed for an Advanced Diploma. Academic course names may vary among school districts.

<table>
<thead>
<tr>
<th>Grade</th>
<th>1st Course</th>
<th>2nd Course</th>
<th>3rd Course</th>
<th>4th Course</th>
<th>5th Course</th>
<th>6th Course (CTE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>English I</td>
<td>Algebra I</td>
<td>Biology</td>
<td>Health /</td>
<td>Physical Education</td>
<td>Aerospace Engineering I</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Computer Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10th</td>
<td>English II</td>
<td>Geometry</td>
<td>Chemistry or Geoscience</td>
<td>World History</td>
<td>Physical Education</td>
<td>Aerospace Engineering II</td>
</tr>
<tr>
<td>11th</td>
<td>English III</td>
<td>Algebra II</td>
<td>Science Course or Elective¹</td>
<td>US History</td>
<td>Foreign Language² or Elective¹</td>
<td>Aerospace Engineering III²</td>
</tr>
<tr>
<td>12th</td>
<td>English IV</td>
<td>Senior Level Math Course</td>
<td>Elective¹</td>
<td>US Government</td>
<td>Foreign Language² or Elective¹</td>
<td>Aerospace Engineering Advanced Studies</td>
</tr>
</tbody>
</table>

¹ Electives may include arts and humanities courses or other career and technical education courses that relate to the program of study.
² Foreign Language courses are recommended if a student is planning on entering a university. (See individual university admission policies)
³ CTE Assessments will be administered during the completion level CTE course.

### Work-Based Learning

- Job Shadowing / Internship / Work Experience / Career Days / Career Fairs / Field Trips / Guest Speakers

### CTE Assessments

1) End of Program Technical Assessment for Aerospace Engineering

2) Workplace Readiness Skills Assessment (for Employability Skills Standards)

### Postsecondary Options

<table>
<thead>
<tr>
<th>College of Southern Nevada / Great Basin College / Nevada State College / Truckee Meadows Community College / University of Nevada, Las Vegas / University of Nevada, Reno / Western Nevada College</th>
</tr>
</thead>
</table>

**Secondary Program Requirements**

Student must earn the state Certificate of Skill Attainment in Aerospace Engineering

**Postsecondary Credit Options**

To Be Determined

### High Wage - High Skill - High Demand Careers

- Aerospace Engineer / Aeronautical Engineer / Project Engineer / Consultant / Designer / Drafter

### State Recognized Industry Certifications

Refer to the Governor's Office of Workforce Innovation’s [Nevada Eligible Industry Credentialing List](#)