



AEROSPACE ENGINEERING

Program of Study

Career Cluster: Science, Technology, Engineering, and Mathematics

Career Pathway: Engineering and Technology

This Academic Plan is based upon the state requirements needed for a College and Career Ready (CCR) Diploma.

Academic course names may vary among school districts.

| Grade | 1 st Course | 2 nd Course | 3 rd Course | 4 th Course | 5 th Course | 6 th Course (CTE) |
|------------------------|------------------------|--------------------------|---|----------------------------|--|------------------------------------|
| 9 th Grade | English I | Algebra I | Biology | Health / Computer Literacy | Physical Education | Introduction to Engineering Design |
| 10 th Grade | English II | Geometry | Chemistry or Geoscience | World History | Physical Education | Principles of Engineering |
| 11 th Grade | English III | Algebra II | Science Course or Elective ¹ | US History | Foreign Language ² or Elective ¹ | Aerospace Engineering ³ |
| 12 th Grade | English IV | Senior Level Math Course | Elective ¹ | US Government | Foreign Language ² or Elective ¹ | Engineering Design and Development |

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.

| Career and Technical Student Organizations | Work-Based Learning | CTE Assessments |
|--|--|---|
| SkillsUSA | Job Shadowing / Internship / Work Experience / Career Days / Career Fairs / Field Trips / Guest Speakers | 1) End of Program Technical Assessment for Aerospace Engineering 2) Workplace Readiness Skills Assessment (for Employability Skills Standards) |

| Postsecondary Options | State Articulation Agreements for CTE College Credit |
|---|--|
| 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 | <p>Secondary Program Requirements Student must earn the state Certificate of Skill Attainment in Aerospace Engineering.</p> <p>Postsecondary Credit Options To Be Determined</p> |

| High Wage - High Skill - High Demand Careers | State Recognized Industry Certifications |
|---|--|
| Aerospace Engineer / Aeronautical Engineer / Project Engineer / Consultant / Designer / Drafter | Refer to the Governor's Office of Workforce Innovation's Nevada Eligible Industry Credentialing List |