ARCHITECTURAL AND CIVIL ENGINEERING

PROJECT LEAD THE WAY™ (PLTW)

- 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>
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<tbody>
<tr>
<td>9th</td>
<td>English I</td>
<td>Algebra I</td>
<td>Biology</td>
<td>Health / Computer Literacy</td>
<td>Physical Education</td>
<td>PLTW-Introduction to Engineering Design</td>
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<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>PLTW-Principles of Engineering</td>
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<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>PLTW-Civil Engineering and Architecture³</td>
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<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>PLTW-Engineering Design and Development</td>
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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

SkillsUSA

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 Architectural and Civil 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

Secondary Program Requirements
Student must earn the state Certificate of Skill Attainment in Architectural and Civil Engineering.

Postsecondary Credit Options
To Be Determined

State Recognized Industry Certifications

Architectural Engineer / Civil Engineer / Structural Engineer / Project Engineer / Survey Technician / Consultant / Designer / Drafter

Refer to the Governor’s Office of Workforce Innovation’s Nevada Eligible Industry Credentialing List

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For inquiries, contact the Equity Coordinator at (775) 687-9200.