# Rowland Unified School District
Career Certification Program
Sequence of Courses

## Engineering / Construction / Transportation

### Core Courses
(Two are required)
- Architecture & Design*
- Construction Technology I*
- Engineering & Design Technology I*
- Geometry*
- PLTW Introduction to Engineering Design*
- Geometry*
- PLTW Introduction to Engineering Design*
- Construction Technology I*
- Automotive Technology I*
- Automotive Technology II*

### Area of Concentration
(Two are Required in Area of Concentration)
- Advanced Architecture Design*
- Engineering & Design Tech II*
- Engineering & Design Tech III*
- PLTW Computer Integrated Manufacturing*
- PLTW Principles of Engineering*
- Tech Special Projects
- Construction Technology II*
- PLTW Civil Engineering/Architecture*
- Tech Special Projects
- Automotive Technology III 2yr*
- Tech Special Projects

### Technology Senior Seminar* (Required Course)
(Includes Internship, Portfolio, Resume, Interview, Project and Presentation)

## Graduation and Certification

College • Trade School • Employment

*Engineering/Construction/Transportation courses approved for UC/CSU Admission
# Approved for Advanced Placement (AP)
Bold/Italic Courses are CTE Approved Courses

## Sample Career Opportunities

<table>
<thead>
<tr>
<th>Engineering &amp; Architecture</th>
<th>Building &amp; Construction Trades</th>
<th>Transportation Diagnostics &amp; Repair</th>
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</thead>
<tbody>
<tr>
<td>Architect</td>
<td>Carpenter</td>
<td>Airplane Mechanic</td>
</tr>
<tr>
<td>Civil Engineer</td>
<td>Cabinetmaker</td>
<td>Alignment Technician</td>
</tr>
<tr>
<td>Environmental Engineer</td>
<td>Contractor</td>
<td>Auto Diagnostic Tech</td>
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<tr>
<td>Facilities Engineer</td>
<td>Electrician</td>
<td>Automotive Machinist</td>
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<tr>
<td>Mechanical Engineer</td>
<td>Estimator</td>
<td>Brake and Front End Tech</td>
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<tr>
<td>Plumbing Engineer</td>
<td>Fabricator</td>
<td>Lubrication Technician</td>
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<tr>
<td>Structural Engineer</td>
<td>Plumber</td>
<td>Mechanic</td>
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</tbody>
</table>