



CAREER TECHNICAL  
EDUCATION

# Rowland Unified School District

## Career Certification Program

### Sequence of Courses



## Engineering / Construction / Transportation

Engineering & Architecture	Building & Construction Trades	Transportation Diagnostics & Repair
<b>Core Courses</b> (Two are required)		
<ul style="list-style-type: none"> <li>• <i>Architecture &amp; Design*</i></li> <li>• <i>Construction Technology I*</i></li> <li>• <i>Engineering &amp; Design Technology I*</i></li> <li>• <i>Geometry*</i></li> <li>• <i>PLTW Engineering Design/Development*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Geometry*</i></li> <li>• <i>PLTW Introduction to Engineering Design*</i></li> <li>• <i>Construction Technology I*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Geometry*</i></li> <li>• <i>Automotive Technology I*</i></li> <li>• <i>Automotive Technology II*</i></li> </ul>
<b>Area of Concentration</b> (Two are Required in Area of Concentration)		
<ul style="list-style-type: none"> <li>• <i>Advanced Architecture Design*</i></li> <li>• <i>Engineering &amp; Design Tech II*</i></li> <li>• <i>Engineering &amp; Design Tech III*</i></li> <li>• <i>PLTW Computer Integrated Manufacturing*</i></li> <li>• <i>PLTW Principles of Engineering Design*</i></li> <li>• <i>Tech Special Projects</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Construction Technology II*</i></li> <li>• <i>PLTW Civil Engineering/Architecture*</i></li> <li>• <i>Tech Special Projects</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Automotive Technology III 2yr*</i></li> <li>• <i>Tech Special Projects</i></li> </ul>
<b>Technology Senior Seminar*</b> (Required Course) (Includes Internship, Portfolio, Resume, Interview, Project and Presentation)		
<b>Graduation and Certification</b>		
<b>College • Trade School • Employment</b>		

\*Engineering/Construction/Transportation courses approved for UC/CSU Admission

# Approved for Advanced Placement (AP)

*Bold/Italic Courses are CTE Approved Courses*

### Sample Career Opportunities

Engineering & Architecture	Building & Construction Trades	Transportation Diagnostics & Repair
<ul style="list-style-type: none"> <li>• Architect</li> <li>• Civil Engineer</li> <li>• Environmental Engineer</li> <li>• Facilities Engineer</li> <li>• Mechanical Engineer</li> <li>• Plumbing Engineer</li> <li>• Structural Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Carpenter</li> <li>• Cabinetmaker</li> <li>• Contractor</li> <li>• Electrician</li> <li>• Estimator</li> <li>• Fabricator</li> <li>• Plumber</li> </ul>	<ul style="list-style-type: none"> <li>• Airplane Mechanic</li> <li>• Alignment Technician</li> <li>• Auto Diagnostic Tech</li> <li>• Automotive Machinist</li> <li>• Brake and Front End Tech</li> <li>• Lubrication Technician</li> <li>• Mechanic</li> </ul>