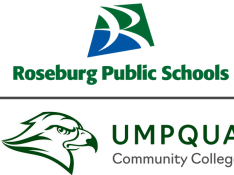


# CAREER PATHWAYS

Grow here. Learn here. Work here.



## Sciences - Engineering

The AS transfer track closely follows the first two years of study for engineering programs at most universities in Oregon including OSU, PSU and OIT covering a wide variety of engineering fields. Students should work closely with their counselor and UCC counselor to select the best sequence of coursework to ensure application to specific field of study and transferability to chosen university program.

### CAREER PATHWAYS

**PATHWAY TYPES:**



- |               |               |           |
|---------------|---------------|-----------|
| Architectural | BioMedical    | Geomatics |
| Electrical    | Mechanical    | Renewable |
| Environmental | Computer      | Resources |
| Nuclear       | Manufacturing | Mining    |
| Civil         | Construction  | Forest    |



**TWO PATHWAYS AVAILABLE:**  
Engineering

Associate of Science  
101 credits required

Two years of college coursework



**SALARY RANGE:** Varies widely by final field of study and chosen career path within field



**LOCAL INDUSTRY:**

- |                          |                         |
|--------------------------|-------------------------|
| Orengo Systems           | City of Roseburg        |
| 7 Robotics               | US Forest Service       |
| Roseburg Forest Products | Caddock Electronics     |
| Con-Vey Keystone         | Douglas County          |
| Pinnacle Engineering     | Cow Creek Band of       |
| i.e. Engineering         | Umpqua Tribe of Indians |
| FCC Commercial Furniture |                         |

# Engineering Pathway

<b>ASSOCIATE OF SCIENCE ENGINEERING</b>	<b>RHS</b>	
Math 9 Honors Eng 9 Honors Fine Arts I or Photo I Spanish I or German I	<b>GRADE 9</b>	
Honors Chemistry Math 10 Honors ENG 10 Honors Fine Arts II or Photo II (ART101) Spanish II or German II	<b>GRADE 10</b>	
Precalculus Intro to Speech (COM111Z) ENG 11 Honors AP US History (HST201/202/203)	<b>GRADE 11</b>	
AP Government (PS201) Calculus (MTH251/252) Writing 121/122 (WR121Z) Honors Physics	<b>GRADE 12</b>	
<b>Graduate from Roseburg High School and enroll at UCC</b>		
CH221 General Chemistry ENGR111 Engineering Orientation MTH251 Calculus I WR121Z Writing Composition I	<b>YEAR 1 FALL</b>	
CH222 General Chemistry II ENG106Z Introduction to Poetry* ENGR112 Problem Solving and Technology MTH252 Calculus II	<b>WINTER</b>	
ECON201 Microeconomics^ ENGR245 Engineering Graphics CS161 Computer Sci or MTH253 Calculus III MTH261 Linear Algebra COM111Z Public Speaking or COM218Z Inter	<b>SPRING</b>	
ENGR201 Electrical Fundamentals I ENGR 211 Statics MTH254 Vector Calculus PH211 General Physics w/Calculus I	<b>YEAR 2 FALL</b>	
ENGR202 Electrical Fundamentals II ENGR213 Strength of Materials MTH256 Differential Equations PH212 General Physics w/Calculus II	<b>WINTER</b>	
ENGR212 Dynamics MTH265 Statistics - Scientists - Engineers PH213 General Physics w/ Calculus III WR227Z Technical Writing	<b>SPRING</b>	



**Engineering Associate of  
Science Degree**