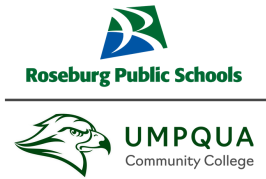




# CAREER PATHWAYS

Grow here. Learn here. Work here.



## Sciences - Chemistry

Chemistry is a branch of physical science that deals with the composition and behavior of all matter. Chemistry acts as a bridge between other physical sciences, such as physics, geology, and biology. Learn about research in plants, animals, space objects or stars, synthetic materials, genetics, artificial flavorings, medicine, and inorganic materials. This degree is a transfer degree for students with the intention to obtain a Bachelor’s degree or graduate degree. This is not considered a degree to move directly into a career.

### CAREER PATHWAYS

**PATHWAY TYPES:**



**Materials Scientists**  
**Environmental Scientists**  
**Chemist**  
**Forensic Science Technicians**

**Toxicologist**  
**Biochemist**  
**Analytical Chemist**  
**Chemistry Teachers**



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



**LOCAL INDUSTRY:**

**School Districts**  
**Colleges and Universities**  
**Law Enforcement Agencies**  
**Medical Laboratories**  
**Chemical Engineering**

**Local, state and federal agencies**



**TWO PATHWAYS AVAILABLE:**

**Chemistry Associate of Arts**  
**Oregon Transfer**

**100 credits required**  
**Two years of college coursework**

# Chemistry Pathway

<b>AAOT CHEMISTRY</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 Human Geography (GEOG142) Fine Arts II or Photo II (ART101) Spanish II or German II	<b>GRADE 10</b>	
Precalculus (MTH111Z/112Z) Intro to Speech (COM111Z) Writing 121/122 (WR121Z/122Z) AP US History (HST201/202/203)	<b>GRADE 11</b>	
AP Government (PS201) Honors Physics (PH201/202) Calculus (MTH251/252) AP Literature (ENG104Z/105Z)	<b>GRADE 12</b>	
<b>Graduate from Roseburg High School and enroll at UCC</b>		
WR121Z Writing Composition I MTH111Z Precalculus I Functions + <b>CH221 General Chemistry I</b> ANTH221 Intro to Anthropology	<b>YEAR 1 FALL</b>	
WR122Z Writing Comp II or WR227Z Tech Wr MTH112Z Precalculus II Trigonometry + <b>CH222 General Chemistry II</b> ART204 History of Western Art I	<b>WINTER</b>	
COM111Z Public Speaking or COM218Z Inter. <b>CH223 General Chemistry III</b> SOC204 Intro to Sociology PSY201Z Intro to Psychology I	<b>SPRING</b>	
<b>CH241 Organic Chemistry I</b> MTH251 Calculus I PH201 General Physics w/ Algebra I ENG104Z Intro to Fiction	<b>YEAR 2 FALL</b>	
<b>CH242 Organic Chemistry II</b> Math 252 Calculus II PH202 General Physics w/ Algebra II PSY202Z General Psychology II	<b>WINTER</b>	
<b>CH243 Organic Chemistry III</b> ENG105Z Introduction to Drama PH203 General Physics w/ Algebra III HPE295 Wellness-Hlth Assess	<b>SPRING</b>	



**Chemistry Associate of Arts  
Oregon Transfer Degree**