

Program: **Chemistry**
 Major: **Chemistry - Environmental Chemistry**
 Degree: **Bachelor of Science (B.S.)**

Dept: **Chemistry**
 College: **Mathematics and Science**
 Major Code: **6063**

University Core (Total Listed 42-44)

For a full list of courses see [University Core](#).

• Courses from the major may apply to the areas marked in the University Core.

Written and Oral Communication 9

Quantitative Reasoning/Scientific Method 10-11

- Math..... 3
- Life Science 4
- Physical Science 3-4

Critical Inquiry and Aesthetic Analysis 6

- Aesthetic Analysis 3
- Critical Inquiry 3

American Historical and Political Analysis 6

- American National Government 3
- American History 3

Cultural and Language Analysis 3-4

- Second Language 4
- OR
- Cultural Analysis..... 3

Social and Behavioral Analysis 3

Life Skills 5

- Required Health Course..... 2
- Elective Life Skills..... 3

**Minimum
Required Hours**

Support Courses

Support Courses.....0-6

Required Courses:

- MATH 1453 Applied Algebra **OR**
- MATH 1533 Precalculus-Algebra **OR**
- MATH 1513 College Algebra **OR** Placement Score **AND**
- MATH 1593 Plane Trigonometry **OR** Placement Score

Major Requirements

Chemistry - Environmental Chemistry..... 77

Common Core 53

Required courses:

- CHEM 1103 General Chemistry I
- CHEM 1112 General Chemistry I - Recitation/Lab
- CHEM 1223 General Chemistry II
- CHEM 1232 General Chemistry II - Recitation/Lab
- CHEM 2104 Quantitative Analysis and Lab
- CHEM 2621 Professionalism in Chemistry I
- CHEM 3303 Organic Chemistry I
- CHEM 3312 Organic Chemistry I Lab
- CHEM 3323 Organic Chemistry II
- CHEM 3332 Organic Chemistry II Lab
- CHEM 3454 Fundamentals of Instrumental Analysis and Lab
- CHEM 3621 Professionalism in Chemistry II
- BIO 1204 Biology for Majors: Principles
- BIO 1224 Biology for Majors: Diversity
- MATH 2153 Bio-Calculus
- PHY 1114 General Physics I and Lab
- PHY 1214 General Physics II and Lab
- STAT 2103 Intro Statistics for Sciences

Advanced Course Work..... 24

Required courses:..... 15

- CHEM 3353 Environmental Chemistry
- CHEM 3203 Introductory Physical Chemistry
- CHEM 3403 Biochemistry I
- CHEM 4454 Environmental Chemical Analysis and Lab
- CHEM 4892 Capstone for Chemistry

**Minimum
Required Hours**

Elective Chemistry (3000/4000 level) 3
 (CHEM 3013 will not apply.)

Additional Electives 6

Selected from the following:

- BIO 3543 General Ecology
- GEO 3253 Intro to Environ Biogeography
- GEO 3703 Environmental Conservation
- GEO 4113 Geographic Information Systems
- GEO 4743 Environmental GIS
- HIST 3723 American Environmental History
- HIST 3743 Global Environmental History
- POL 4423 Environmental Politics

Other electives as approved by the department

Electives to bring total to..... 124

The following are highly recommended:

- CHEM 4654 Inorganic Chemistry and Lab
- ENG 4023 Technical Writing

Minimum Grade Requirements

1. Average in (a) all college course work, and (b) course work at UCO 2.25
2. A minimum grade of "C" must be earned in all courses in the major to count toward meeting degree requirements.