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

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

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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

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 1225 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 3355 Environmental Chemistry
CHEM 3203 Introductory Physical Chemistry
CHEM 3403 Biochemistry I
CHEM 4454 Environmental Chemical Analysis and Lab
CHEM 4892 Capstone for Chemistry

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

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.

For other regulations pertaining to graduation, see Academic Degree Requirements.