Program: Chemistry
Major: Chemistry
Degree: Bachelor of Science (B.S.)
Dept: Chemistry
College: Mathematics and Science
Major Code: 6060

University of Central Oklahoma Undergraduate Catalog 2023-2024

Minimum Required Hours

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

Support Courses ................................................................. 0-6

Required Courses:

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

*A grade of ‘C’ or better is required for either MATH 1513 or MATH 1533 and MATH 1593 to take MATH 2313.

Major Requirements

Chemistry ................................................................. 68

Common Core ............................................................... 47

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 3322 Organic Chemistry II Lab
CHEM 3454 Fundamentals of Instrumental Analysis and Lab
CHEM 3621 Professionalism in Chemistry II
MATH 2313 Calculus 1
MATH 2323 Calculus 2
MATH 2333 Calculus 3
PHY 2014 Physics for Science and Engineering I and Lab
PHY 2114 Physics for Science and Engineering II and Lab

Advanced Chemistry ........................................................... 21

Required courses:

CHEM 3403 Biochemistry I
CHEM 3503 Physical Chemistry I
CHEM 3513 Physical Chemistry II
CHEM 3602 Experimental Physical 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

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.