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

University of Central Oklahoma Undergraduate Catalog 2021-2022

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

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 - ACS Certificate ....................................................... 75

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 3332 Organic Chemistry II Lab
CHEM 3454 Fundamentals of Instrumental Analysis and Lab
CHEM 3621 Professionalism in Chemistry II
MATH 2313 Calculus I
MATH 2323 Calculus II
MATH 2333 Calculus III
PHY 2014 Physics for Science and Engineering I and Lab
PHY 2114 Physics for Science and Engineering II and Lab

Advanced Chemistry ACS approved ............................................. 28

Required courses: ................................................................. 22
CHEM 3403 Biochemistry I
CHEM 3503 Physical Chemistry I
CHEM 3513 Physical Chemistry II
CHEM 3602 Experimental Physical Chemistry

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.