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

University Core (Total Listed 42-44)

Specific courses within the University Core are listed on pages 95-96.
• 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

Support Courses
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 ............................................................. 76

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 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 ACS approved.................................................. 29
Required courses: ................................................................. 22
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

Electives to bring total to ......................................................... 124

The following are highly recommended:
CHEM 4454 Advanced Instrumental Analysis and Lab
ENG 4023 Technical Writing
MATH 2343 Calculus 4
PHY 3103 Modern Physics

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 pages 66-67 of the 2019-2020 catalog.