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

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

Minimum Required Hours

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 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 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

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:

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.