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 96-97.
• 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

Elective Chemistry (3000/4000 level) ........................................ 7
(CHEM 3203 will not apply.)

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

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
CHEM 4502 Directed Research and Lab (taken twice)
CHEM 4603 Advanced Organic Chemistry
CHEM 4654 Inorganic Chemistry and Lab

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.

For other regulations pertaining to graduation, see pages 68-69 of the 2018-2019 catalog.