

Program: **Chemistry**  
 Major: **Chemistry - Health Sciences**  
 Degree: **Bachelor of Science (B.S.)**

Dept: **Chemistry**  
 College: **Mathematics and Science**  
 Major Code: **6062**

### 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

**Minimum  
Required Hours**

**Minimum  
Required Hours**

### Support Courses

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

Required Courses:

MATH 1453 Applied Algebra **OR**

MATH 1513 College Algebra **OR** Placement Score **OR**

MATH 1533 Precalculus-Algebra **OR** Placement Score **AND**

MATH 1593 Plane Trigonometry **OR** Placement Score

### Major Requirements

**Chemistry - Health Sciences** ..... 76

**Common Core** ..... 56

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

BIO 1204 Biology for Majors: Principles

BIO 1225 Biology for Majors: Diversity

BIO 2203 Cell Biology

MATH 2153 Bio-Calculus

PHY 1114 General Physics I and Lab

PHY 1214 General Physics II and Lab

STAT 2103 Intro Statistics for Sciences

**Advanced Course work** ..... 20

Required courses: ..... 14

BIO 3054 Microbiology for Majors and Lab

CHEM 3203 Introductory Physical Chemistry

CHEM 3403 Biochemistry I

CHEM 3442 Experimental Biochemistry

CHEM 4892 Capstone for Chemistry

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

### 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](#).