

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

Dept: Chemistry
 College: Mathematics and Science
 Major Code: 6060

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 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 68

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 21

Required courses: 15

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)

Chemistry Electives (3000/4000 level) 6
 (CHEM 3013 and CHEM 3203 will not apply)

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.

For other regulations pertaining to graduation, see [Academic Degree Requirements](#).