Program: Chemistry  
Major: Chemistry - Health Sciences  
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

<table>
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<tr>
<th>Support Courses</th>
<th>Required Hours</th>
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<tr>
<td>Support Courses</td>
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</table>

#### 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:**

- BIO 3054 Microbiology for Majors and Lab
- CHEM 3203 Introductory Physical Chemistry
- CHEM 3403 Biochemistry I

**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**

**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.