Program: Biology
Major: Biology-Medical Laboratory Science
Degree: Bachelor of Science (B.S.)

University of Central Oklahoma Undergraduate Catalog 2023-2024

Minimum Required Hours

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Required Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (Total Listed 42-44)</td>
<td></td>
</tr>
<tr>
<td>American Historical and Political Analysis</td>
<td>6</td>
</tr>
<tr>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>American History</td>
<td>3</td>
</tr>
<tr>
<td>Cultural and Language Analysis</td>
<td>3-4</td>
</tr>
<tr>
<td>Second Language</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>Cultural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Life Skills</td>
<td>5</td>
</tr>
<tr>
<td>Elective Life Skills</td>
<td>3</td>
</tr>
<tr>
<td>Minimum</td>
<td></td>
</tr>
</tbody>
</table>

Support Courses

Support Courses...............................................0-3

Students majoring in Biology-Medical Laboratory Science are encouraged to complete the following courses in high school.

Two years of high school algebra OR
MATH 1453 Applied Algebra OR
MATH 1513 College Algebra

Major Requirements

Biology-Medical Laboratory Sciences.............87

Students may earn the B.S. in Biology-Medical Laboratory Science from UCO upon completion of the following three year curriculum and an additional one year in a hospital school approved by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Biology and Chemistry .......................................46

Required Courses:
- BIO 1204 Biology for Majors: Principles
- BIO 1224 Biology for Majors: Diversity
- BIO 2203 Cell Biology
- BIO 2211 Cell Biology Laboratory
- BIO 2604 Human Physiology and Lab
- BIO 3054 Microbiology for Majors and Lab
- BIO 3303 Genetics
- BIO 4515 Pathogenic Microbiology and Immunology and Lab
- CHEM 1103 General Chemistry I
- CHEM 1112 General Chemistry I-Recititation/Lab
- CHEM 1223 General Chemistry II
- CHEM 1232 General Chemistry II-Recitation/Lab
- CHEM 3303 Organic Chemistry I
- CHEM 3312 Organic Chemistry I Lab
- CHEM 3403 Biochemistry I

Mathematics ......................................................6

Required courses:
- MATH 2153 BioCalculUS
- STAT 2103 Intro Statistics for Sciences

Elective Biology and/or Chemistry..........................5

Selected from the following courses:
- BIO 3403 Comparative Animal Physiology OR
- BIO 3464 Comparative Animal Physiology and Lab

Minimum Grade Requirements

1. Average in (a) all college course work, (b) course work at UCO, and (c) major courses.............................. 2.00
2. A minimum grade of “C” must be earned in all courses in the major to count toward meeting degree requirements.

American Historical and Political Analysis
American National Government
American History
Cultural and Language Analysis
Second Language
OR
Cultural Analysis
Social and Behavioral Analysis
Life Skills
Elective Life Skills
University Core (Total Listed 42-44)
Support Courses
Biology and Chemistry
Mathematics
Elective Biology and/or Chemistry
Minimum Grade Requirements
1. Average in (a) all college course work, (b) course work at UCO, and (c) major courses
2. A minimum grade of “C” must be earned in all courses in the major to count toward meeting degree requirements.