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

University Core (Total Listed 42-44)

Specific courses within the University Core are listed on pages 95-96.
• 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

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 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 ................................................................. 47

Required Courses:
BIO 1204 Biology for Majors: Principles
BIO 1225 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-Recitation/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 .................................................... 4

Selected from the following courses:
BIO 3403 Comparative Animal Physiology OR
BIO 3464 Comparative Animal Physiology and Lab
BIO 3414 Histology 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, (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.

For other regulations pertaining to graduation, see pages 66-67 of the 2019-2020 catalog.