### University Core  (Total Listed 42-44)

- **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 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 ............................................................... 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

### 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 [Academic Degree Requirements](#).