BS Biology w/ Microbiology Concentration in Four Years [2015-2016]

**College of Sciences**
**School of Life Sciences**

**Requirements for entering terms:**
- **Fall 2015 - Spring 2016**
- **Summer 2016 - Spring 2019**

**Credits**
- **1st Year:** 32
- **2nd Year:** 28
- **3rd Year:** 30
- **4th Year:** 30
- **Total:** 120

**Graduation:**
- University of Nevada, Las Vegas (UNLV)
  - **School of Life Sciences**
  - **Juanita Greer White Hall (WHI-101)**
- 702-895-3390
- www.unlv.edu/lifesciences

**First Semester**
- **Course:** ENG 101 English Composition I (placement required)
- **Credits:** 3
- **Course:** MATH 181 Calculus I (placement required)
- **Credits:** 4
- **Choose First Year Seminar (SCI-101 recommended)**
- **Credits:** 2
- **CHEM 121/121L General Chemistry**
- **Credits:** 4
- **Total First Semester:** 17

**Second Semester**
- **Course:** ENG 102 Composition II
- **Credits:** 3
- **Course:** CHEM122/122L General Chemistry II
- **Credits:** 4
- **Course:** BIOL 196 Modern Biology I OR BIOL 197 Modern Biology II
- **Credits:** 4
- **Total Second Semester:** 15

**Third Semester**
- **Course:** CHEM 241 Organic Chemistry I lecture
- **Credits:** 3
- **Course:** CHEM 241L Organic Chemistry I lab
- **Credits:** 1
- **Course:** PHYS 151 General Physics I
- **Credits:** 4
- **Choose Social Science Field 1**
- **Credits:** 3
- **Choose Second Year Seminar**
- **Credits:** 3
- **Total Third Semester:** 14

**Fourth Semester**
- **Course:** CHEM 242 Organic Chemistry II lecture
- **Credits:** 3
- **Course:** CHEM 242L Organic Chemistry II lab
- **Credits:** 1
- **Course:** PHYS 152 General Physics II
- **Credits:** 4
- **Course:** General Elective
- **Credits:** 3
- **Choose Humanities Field 1**
- **Credits:** 3
- **Total Third Semester:** 14

**Fifth Semester**
- **Course:** CHEM 474 Biochemistry I
- **Credits:** 3
- **Course:** Biology Upper Division Course
- **Credits:** 4
- **Course:** BIOL 300 Genetics or BIOL 304 Molecular Genetics
- **Credits:** 4
- **Course:** BIOL 415 Evolution
- **Credits:** 3
- **Course:** General Elective
- **Credits:** 3
- **STAT 391 App. Stats for Bio Sci or STAT 491 Stats for Sci**
- **Credits:** 3
- **Total Fifth Semester:** 14

**Sixth Semester**
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** General Elective
- **Credits:** 3
- **Course:** General Elective
- **Credits:** 1
- **Choose Social Science Field 2**
- **Credits:** 3
- **Total Sixth Semester:** 16

**Seventh Semester**
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** General Elective
- **Credits:** 1
- **Course:** Choose Social Science Field 2
- **Credits:** 3
- **Total Seventh Semester:** 16

**Eighth Semester**
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** Biology Upper Division Course
- **Credits:** 3
- **Course:** Choose Fine Arts
- **Credits:** 3
- **Course:** General Elective
- **Credits:** 3
- **Course:** General Elective
- **Credits:** 3
- **Course:** Choose Social Science Field 3
- **Credits:** 3
- **Total Eighth Semester:** 14

**Notes**
- A minimum of six (6) credits are required, to be composed of a three-credit multicultural course and a three-credit international course that may simultaneously fulfill other general education requirements (General Education Requirements are Italized). A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor!

**To enroll in upper division (300-400 level) biology classes, students must complete a set of introductory science, math, and composition classes with a satisfactory grade. These courses, which satisfy university and science major requirements (25 credits), are typically taken in the freshman year. Entry to the major requires a C or better (C- is not sufficient) in each of the following classes (or equivalent transferred from another institution): BIOL 196, BIOL 197, CHEM 121, CHEM 122, MATH 127 or 181, ENG 101, ENG 102. Students with Advanced Placement (AP) credit in chemistry and/or biology must complete the appropriate lab at UNLV and earn a grade C or higher.**
LOWER DIVISION PREREQUISITE COURSE SEQUENCES FOR BIOLOGY MAJORS

Lower Division Math Sequence

- **MATH 126**: Precalculus I (3 credits) Grade C
- **MATH 127**: Precalculus II (3 credits) Grade C

Lower Division Chemistry Sequence

- **CHEM 105**: Preparatory Chemistry (3 credits) Grade C
- **CHEM 121**: General Chemistry I (4 credits) Grade C
- **CHEM 122**: General Chemistry II (4 credits) Grade C

Lower Division Physics Sequence

- **PHYS 151**: General Physics I (4 credits) Grade C
- **PHYS 152**: General Physics II (4 credits) Grade C

Lower Division English Sequence

- **ENG 101**: English Composition I (4 credits) Grade C
- **ENG 102**: English Composition II or ENGL 114 or HON 100 (Grade C)

Lower Division Biology Sequence

- **BIOL 106**: Modern Biology I (Grade C)
- **BIOL 107**: Modern Biology II (Grade C)

**Majors: Biology**

- **CHEM 241L**: Organic Chemistry Lab (1 credit) Grade C
- **CHEM 244**: Organic Chemistry II (4 credits) Grade C

**Majors: Biochemistry, Chemistry**

- **CHEM 242**: Organic Chemistry II Lab (2 credits) Grade C
- **CHEM 344**: Organic Chemistry III (4 credits) Grade C

**Recommended for Math Majors Only**

Lower Division Math Sequence

- **MATH 126**: Precalculus I (3 credits) Grade C
- **MATH 127**: Precalculus II (3 credits) Grade C

Lower Division Chemistry Sequence

- **CHEM 105**: Preparatory Chemistry (3 credits) Grade C
- **CHEM 121**: General Chemistry I (4 credits) Grade C
- **CHEM 122**: General Chemistry II (4 credits) Grade C

Lower Division Physics Sequence

- **PHYS 151**: General Physics I (4 credits) Grade C
- **PHYS 152**: General Physics II (4 credits) Grade C

Lower Division English Sequence

- **ENG 101**: English Composition I (4 credits) Grade C
- **ENG 102**: English Composition II or ENGL 114 or HON 100 (Grade C)

Lower Division Biology Sequence

- **BIOL 106**: Modern Biology I (Grade C)
- **BIOL 107**: Modern Biology II (Grade C)

Read the UNLV Catalog for Upper Division Course Prerequisites [http://catalog.unlv.edu/](http://catalog.unlv.edu/)