

Bachelor of Science in Natural Sciences

Major: Microbiology

2020-2021 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ Student ID# _____ Student Phone # _____

Advisor _____ Minimum GPA 2.0 in major courses Minor/Career Interest(s) _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|------------------------------------|---------------------------------|---------|----------|-------|
| BIOL 119 | First Year Seminar | | 2 | F | |
| BIOL 151-1551L | General Biology I and Lab (SGR #6) | c. BIOL 151/L | 4 | F | |
| CHEM 112 | General Chemistry I | c. MATH 114 or higher placement | 3 | F/S/Su | |
| CHEM 112L | General Chemistry I Lab | | 1 | F/S/Su | |
| ENGL 101 | Composition I (SGR #1) | p. Placement | 3 | F/S/Su | |
| SGR #3 | Social Sciences/Diversity | See list in catalog | 3 | | |
| Total Credit Hours | | | 16 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|-------------------------|----------------------------|------------------------|---------|----------|-------|
| BIOL 153-153L | General Biology II and Lab | | 4 | S | |
| BIOL 290 or MICR 290 | Seminar | | 1 | S | |
| CHEM 114 | General Chemistry II | p. | | | |



Summer

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|-----------------|----------------------------|------------------------|---------|----------|-------|
| | Research and/or internship | | | | |

Third Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|-----------------------------------|--|---|---------|----------|-------|
| Applied and Environ. Microbiology | BIOL 235, MICR 450, MICR 421/L, MICR 310/L, and MICR 311/L | 3-4 credits course depending | 3-4 | | |
| BIOL 383 | Bioethics | | 4 | F | |
| CHEM 464 | Biochemistry I | p. CHEM 229 or 328 | 3 | F/SU | |
| MICR 490 | Seminar | | 2 | | |
| PHYS elective | Physics elective | p. MATH 114 or higher Discuss with advisor whether PHYS 111-113 is appropriate | 4 | | |
| Total Credit Hours | | | 16-17 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|-----------------------------------|------------------------|---------|----------|-------|
| CHEM 466 | Laboratory Methods - Biochemistry | p. CHEM 464 | 1 | F/S | |
| MICR 332 | Microbial Physiology | p. MICR 231/L or 233/L | 2 | S | |
| MICR 332L | Microbial Physiology Lab | | 2 | S | |
| STAT 281 | Introduction to Statistics | p. MATH 103 or higher | 3 | F/S/Su | |
| General Electives | Select from any discipline | | 6 | | |
| Total Credit Hours | | | 14 | | |

GRE preparation if pursuing graduate school