# Sample 4-year Plan: Biology Major

## FRESHMAN YEAR

### Fall:
- LIFE 102 (or BZ 110/111) \(4 \text{ cr}\)
- CHEM 111/112 \(5 \text{ cr}\)
- MATH (based on placement) \(2-4 \text{ cr}\)
- CO 150 \(3 \text{ cr}\)
- Total \(~15 \text{ cr}\)

### Spring:
- LIFE 103 (or BZ 120) \(4 \text{ cr}\)
- CHEM 113/114 \(4 \text{ cr}\)
- MATH 155 (or 160) **or** STAT301 (or 307) **or** PACe \(2-4 \text{ cr}\)
- AUCC Course \(3 \text{ cr}\)
- Elective (if needed) \(2-3 \text{ cr}\)
- Total \(~15 \text{ cr}\)

## SOPHOMORE YEAR

### Fall:
- BZ 220 \(3 \text{ cr}\)
- *CHEM 245/246 (or CHEM341) \(3-5 \text{ cr}\)
- STAT 301 (or 307) **or** MATH155 (or 160) \(3 \text{ cr}\)
- AUCC Course \(3 \text{ cr}\)
- **Selected Field or Elective** \(2-3 \text{ cr}\)
- Total \(~15 \text{ cr}\)

### Spring:
- LIFE 320 **or** BZ 350 \(3-4 \text{ cr}\)
- *CHEM 343/344 (if needed) **or** BC351 (if goal = finish chem.) \(5 \text{ cr}\)
- Remaining math (if needed) \(3-4 \text{ cr}\)
- **Selected Field** \(2-5 \text{ cr}\)
- AUCC Course \(3 \text{ cr}\)
- Elective (if needed) \(2 \text{ cr}\)
- Total \(~15 \text{ cr}\)

## JUNIOR YEAR

### Fall:
- PH 121 (or PH141) \(5 \text{ cr}\)
- LIFE 320 **or** BZ 350 \(3-4 \text{ cr}\)
- AUCC Course \(3 \text{ cr}\)
- **Elective** **or** BC351 \(3 \text{ cr}\)
- Total \(~15 \text{ cr}\)

### Spring:
- PH 122 (or PH142) \(5 \text{ cr}\)
- **Selected Field** \(2-5 \text{ cr}\)
- **Additional Field** **or** BC 351 \(2-4 \text{ cr}\)
- AUCC course \(3 \text{ cr}\)
- Elective (if needed) \(3 \text{ cr}\)
- Total \(~15 \text{ cr}\)

## SENIOR YEAR

### Fall:
- **Additional Field** **or** BC 351 \(3-4 \text{ cr}\)
- BZ 310 \(4 \text{ cr}\)
- **Selected Field** \(2-5 \text{ cr}\)
- Elective \(6 \text{ cr}\)
- Total \(~15 \text{ cr}\)

### Spring:
- BZ 311 (not offered in fall) \(4 \text{ cr}\)
- Advanced Writing (AUCC Addl. Comm.) \(3 \text{ cr}\)
- **Selected Field** **or** **Additional Field** (if needed) \(2-3 \text{ cr}\)
- Elective (as needed to get to 120 cr) \(\geq 3 \text{ cr}\)
- Total \(~15 \text{ cr}\)

Many required courses are offered both fall and spring semesters, with the exceptions noted above. Thus, many of the courses above can be moved around. When moving courses, remember that the course you are moving may be a prerequisite for a course you are planning to take in the future.

*The required chemistry (and physics) courses can be moved to other semesters, keeping in mind that they may be prerequisites for other courses, or will be important for standardized tests such as the MCAT. See an Academic Support Coordinator or CASA Health Professions Advisor for help planning and selecting physical science courses, especially organic chemistry. Your choice of organic chemistry may have implications for future graduate and professional programs or careers.*

** Many Selected Field and Additional Field courses are offered only one semester of the year, and some are not offered every year. Plan ahead for these courses. Remember that you must take a total of 12 selected field credits and 6 additional field credits.

Note: For the biology major, 120 credits are required to graduate (an average of 15 credits per semester). Of the 120 credits required to graduate, 42 of those credits must be upper-division (courses numbered 300 or above), so keep track of upper-division credits as well when planning electives.
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NOTES:

- This is not a contract – it is a basic, flexible guideline to show how students may fit all degree requirements into four years of coursework. Many factors will influence your graduation plan, so courses can (and will) be switched around and taken during terms other than those listed on this sample plan.

- This sample plan covers all biology majors, regardless of career goals. The biology and physical science core courses cover most (if not all) entrance requirements for most graduate and professional programs (including medical and veterinary school). For pre-health students, CASA Health Professions Advisors will work with you to identify appropriate Selected Field and Additional Field courses that will aid in getting you prepared for future professional programs. To make an appointment with a pre-health advisor, call (970) 491-7095.

  o For pre-med or pre-veterinary students: Selecting Anatomy and Physiology as your Selected Field is not required – you can get into future programs with any of the Selected Fields. Pick whichever Selected Field is most interesting to you.

    ▪ Note for pre-veterinary student: As a general guideline, any upper-division BMS or MIP course will be beneficial to you, especially BMS 300, BMS 305, and MIP 300 (sometimes MIP 302 as well).

    ▪ Note for pre-med students: Any course that integrates biology and chemistry (e.g., biochemistry, physiology, and microbiology) will help prepare you for the MCAT. Plan to take courses such as these before you take the MCAT (usually spring of your junior year).