

Biology (BA/BS)

The following plan is possible on the presumption that an incoming student has an Associate of Arts (AA) degree and has completed the equivalent to **BIOL 104** (Ecology and Evolution of the Organism), **BIOL 107** (Cells, Molecules, and Genes), **CHEM 130** and **CHEM 131** (Chemical Principles I and II), and **MATH 198** (Calculus I) prior to enrolling at Truman State University. **This plan also assumes taking PHYS 186 in the Summer - Semester 3.** As a 2-year plan option, this course sequencing is extremely rigorous, and will be challenging. If the suggested courses above are not complete, then we strongly recommend a 3-year plan, allowing for time to complete these missing courses along with Dialogues Curriculum.

FALL - Semester 1

- STAT 190: Basic Statistics (3 cr)
- **BIOL 300: Genetics** (4 cr)
- **BIOL 210: WE/ Intro to Writing about Biology** (3 cr)
- CHEM 329: Organic Chemistry I (3 cr) **OR** CHEM 320: Foundations of Organic Chemistry (4 cr) *
- JINS 3XX - WE/Junior Interdisciplinary Seminar (3 cr) **OR** Elementary Foreign Language I (3 cr)

SUMMER - Semester 3

- PHYS 186: College Physics II (4 cr)

SPRING - Semester 2

- **BIOL Core Elective #1** (4 cr)
- CHEM 330: Organic Chemistry I Lab (1 cr)
- CHEM 331: Organic Chemistry II (3 cr)
- PHYS 185: College Physics I (4 cr)
- JINS 3XX - WE/Junior Interdisciplinary Seminar (3 cr) **OR** Elementary Foreign Language I (3 cr)

FALL - Semester 4

- **BIOL 545: Biology Senior Capstone** (1 cr)
- **BIOL Core Elective #2** (or Semester 4) (4 cr)
- **BIOL Elective/Learning Plan** (3-4 cr)
- **BIOL Elective/Learning Plan** (3-4 cr)
- CHEM 332: Organic Chemistry II Lab (1 cr)
- Another WE course (1-3 cr) **OR** Intermediate Foreign Language I (if needed) (3 cr)

SPRING - Semester 5

- **BIOL Core Elective #2 (or Semester 3)** (4 cr)
- **BIOL Elective/Learning Plan** (3-4 cr)
- **BIOL Elective/Learning Plan** (3-4 cr)
- Another WE course (1-3 cr) **OR** Intermediate Foreign Language II (if needed) (3 cr)

NOTES:

- (*) = For students not pursuing a pre-professional track, consider taking CHEM 329-332 with CHEM 320. This courses is offered on even Spring semester. This opens opportunities to complete PHYS 185 & 186 sooner, or catch up on BIOL 104, BIOL 107, CHEM 130 and 131 if needed.
- WE = Writing Enhanced course
- The Dialogues curriculum requires a certain number of courses/credit hours in the following Perspectives: Social, Arts and Humanities, STEM, Communications, and Statistics. The exact number of courses a student will be required to take during their undergraduate career varies individually according to the credit transferred in.

Department Chair: Please contact the Center for Academic Excellence (advise@truman.edu) with any updates to the plan above.