

Sample Two Year Plan

Biochemistry and Molecular Biology (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 107** (Cells Molecules and Genes); **CHEM 130** and **CHEM 131** (Chemical Principles I and II); **CHEM 329**, **CHEM 330**, **CHEM 331** and **CHEM 332** (Organic Chemistry I and II with lab), and **MATH 198** (Calculus I) prior to enrolling at Truman State University.

FALL - Semester 1

- CHEM 245: Sophomore Chem. Seminar (1 cr)
- BIOL 300: Genetics (4 cr)
- MATH 263: Analytic Geometry and Calculus II (4 cr)
- CHEM 275: Intro to Inorganic Principles (1 cr)
- JINS 3XX: We/Junior Interdisciplinary Perspective Seminar (3 cr)

FALL - Semester 3

- CHEM 345: Junior Chemistry Seminar (1 cr)
- BCMB 445: Senior Biochemistry and Molecular Biology Capstone Seminar (1 cr)
- CHEM 337: Physical Chemistry of Biochemical Systems (3 cr)
- BCMB Elective 1 (3 cr)
- PHYS 186: College Physics II (4 cr)
- Elementary Foreign Language I (3 cr)

SPRING - Semester 2

- BIOL 330: Cell Biology (4 cr)
- CHEM 312: WE/Foundations of Chemical Analysis (5 cr)
- CHEM 335: Biochemistry I Structure and Function (3 cr)
- PHYS 185: College Physics I (4 cr)

SPRING - Semester 4

- CHEM 326: WE Quantum Mechanics and Spectroscopy Laboratory (2 cr)
- BCMB Elective 2 with lab (4 cr)
- BCMB Elective 3 (3 cr)
- Elementary Foreign Language II (3 cr)

NOTES:

- 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.