

Chemistry (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 **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.

If the student has also completed the equivalent of **CHEM 312** and **MATH 263**, then **CHEM 323** and **CHEM 324** can be taken in semester 1, which provides greater scheduling flexibility in semesters 3 and 4.

FALL - Semester 1

- CHEM 245: Sophomore Chemistry Seminar (1 cr)
- CHEM 312: WE/Foundations of Chemical Analysis (5 cr)
- MATH 263: Analytic Geometry and Calculus II (4 cr)
- PHYS 185: College Physics I (4 cr)

FALL - Semester 3

- CHEM 345: Junior Chemistry Seminar (1 cr)
- CHEM 445: Senior Chemistry Capstone Seminar (1 cr)
- CHEM 323: Thermodynamics and Kinetics (3 cr)
- CHEM 324: WE/Thermodynamics and Kinetics Lab (2 cr)
- CHEM 473: Inorganic Chemistry (3 cr)
- CHEM 474: Inorganic Chemistry Lab (2 cr)
- Elementary Foreign Language I (3 cr)

SPRING - Semester 2

- CHEM 325: Quantum Mechanics and Spectroscopy (3 cr)
- CHEM 326: WE/Quantum Mechanics and Spectroscopy Laboratory (2 cr)
- PHYS 186: College Physics II (4 cr)
- JINS 3XX: WE/Junior Interdisciplinary Seminar (3 cr)

SPRING - Semester 4

- CHEM 322: Instrumental Analysis (5 cr)
- CHEM 335: Biochemistry I: Structure and Function (3 cr)
- CHEM 310: Biochemistry Laboratory (2 cr)
- Chemistry Elective (2 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.