Bachelor of Science in Chemistry (Starting with Calculus)

Required Semester Credit Hours (SCH): 120

Refer to the University Catalog for all degree requirements at catalog.utep.edu.

Many core curriculum courses are also offered in the summer (Su). Students are encouraged to register early and check Goldmine for course availability. The flowchart below may not reflect all student schedules; courses can be shifted to different semesters where applicable.

University Core Curriculum*

- **Freshman Year**
  - First Semester (14 SCH)
    - RWS 1301: Rhetoric & Composition I (3SCH, F/Sp)
  - Second Semester (16 SCH)
    - PHIL 2306: Ethics (3SCH, F/Sp)

- **Sophomore Year**
  - First Semester (15 SCH)
    - MATH 1411: Calculus I (4SCH, F/Sp)
    - ART 1300: Art Appreciation (3SCH, F/Sp)
  - Second Semester (16 SCH)
    - SCI 1301: Inquiry to Math and Science (3SCH, F/Sp)
    - CHEM 1305 + 1105: General Chemistry I + Lab (4SCH, F/Sp)

- **Junior Year**
  - First Semester (17 SCH)
    - COMM 1301: Public Speaking (3SCH, F/Sp)
    - PSYC 1301: Intro to Psychology (3SCH, F/Sp)
    - CHEM 2321 + 2221: Organic Chem I + Lab (5SCH, Sp)
    - CHEM 1306 + 1106: General Chemistry II + Lab (4SCH, F/Sp)
  - Second Semester (16 SCH)
    - PHYS 2320 & 2120: Introductory Mechanics & Lab (4SCH, F/Sp)
    - POLS 2311: American Gov. and Politics (3SCH, F/Sp)
    - CHEM 3351 + 3151: Physical Chemistry I + Lab (4SCH, F)
    - CHEM 3352 + 3152: Physical Chemistry II + Lab (4SCH, Sp)

- **Senior Year**
  - First Semester (13 SCH)
    - CHEM 3310: Biochemistry Structural Function (3SCH, F/Sp)
    - POLS 2310: Introduction to Politics (3SCH, F/Sp)
    - CHEM 4328: Topics in Adv Inorg Chem (3SCH, F)
  - Second Semester (13 SCH)
    - CHEM 3330: Biochemistry Structural Function (3SCH, F/Sp)
    - PSYC 1301: Intro to Psychology (3SCH, F/Sp)
    - CHEM 4211 + 4212: Instrumental Methods in Analyt Chem + Lab (4SCH, Sp)

Major Courses

- **Freshman Year**
  - First Semester (14 SCH)
    - RWS 1301: Rhetoric & Composition I (3SCH, F/Sp)
    - CHEM 1305 + 1105: General Chemistry I + Lab (4SCH, F/Sp)
  - Second Semester (16 SCH)
    - COMM 1301: Public Speaking (3SCH, F/Sp)
    - SCI 1301: Inquiry to Math and Science (3SCH, F/Sp)
    - MATH 1411: Calculus I (4SCH, F/Sp)

- **Sophomore Year**
  - First Semester (15 SCH)
    - MATH 1312: Calculus II (4SCH, F/Sp)
    - CHEM 2321 + 2221: Organic Chemistry I + Lab (5SCH, Sp)
    - PHYS 2320 & 2120: Introductory Mechanics & Lab (4SCH, F/Sp)
  - Second Semester (16 SCH)
    - CHEM 2322 + 2223: Organic Chemistry II + Lab (3SCH, F)
    - CHEM 3310 + 3110: Analytical Chemistry + Lab (3SCH, F)
    - CHEM 3330: Biochemistry Structural Function (3SCH, F)
    - CHEM 4365 + 4165: Inorganic Chemistry + Lab (4SCH, Sp)

- **Junior Year**
  - First Semester (17 SCH)
    - CHEM 3301: Molecular Modeling (3SCH, F)
    - PHYS 2361 + 2161: The Periodic Table + Lab (4SCH, F)
    - RWS 1302: Rhetoric & Composition II (3SCH, F/Sp)
    - CHEM 3351 + 3151: Physical Chemistry I + Lab (4SCH, F)
  - Second Semester (16 SCH)
    - CHEM 3352 + 3152: Physical Chemistry II + Lab (4SCH, Sp)
    - CHEM 4328: Topics in Adv Inorg Chem (3SCH, F)

- **Senior Year**
  - First Semester (13 SCH)
    - CHEM 3301: Molecular Modeling (3SCH, F)
    - RWS 1302: Rhetoric & Composition II (3SCH, F/Sp)
    - CHEM 4328: Topics in Adv Inorg Chem (3SCH, F)
  - Second Semester (13 SCH)
    - CHEM 3301: Molecular Modeling (3SCH, F)
    - CHEM 4328: Topics in Adv Inorg Chem (3SCH, F)