

Biochemistry Major (14 units)

10 departmental units

a. Chemistry

- _____ **CHEM 117** (Chemistry) W, offered every term
- _____ **CHEM 220** (Environmental, Analytical, and Geochemistry) offered spring semesters
- _____ **CHEM 230** (Organic Chemistry I) offered fall semesters
- _____ **CHEM 235** (Organic Chemistry II) offered spring semesters

b. Biology

- _____ **BIOL 110** (Human Biology), **BIOL 111** (Zoology), **BIOL 121** (Botany), **BIOL 141** (Microbiology) or **BIOL 151** (Marine Biology)
- _____ **BIOL 247** (Biometrics)
- _____ **BIOL 289** (Genetics)

c. Biochemistry

- _____ **BIOL/CHEM 260** (Biochemistry of Metabolism) offered spring semester,
- _____ **BIOL/CHEM 300** (DNA & Protein Biochemistry) offered fall semester

d. Seminars and Thesis

- _____ **CHEM 280** (Professional Tools for Scientific Careers), ¼ unit offered every term
- _____ **CHEM 380** (Chemistry Seminar, ½ unit, offered every term) or **CHEM 385** (Senior Thesis), (W, Capstone ½ unit, offered every term) or **BIOL 385** (Biology Capstone: Advanced Topics, ½ unit) or **BIOL 387** (Biology Capstone: Senior Manuscript, ½ unit)

e. Four supporting units:

- _____ **MATH 110 or 115** (Calculus I or II)
 - _____ **PHYS 101 or 102** (General Physics I or II)
- Two additional units selected from Biology, Chemistry, Mathematics, and Physics.

Students intent on graduate school are strongly encouraged to take **CHEM 240** (Thermodynamics and Kinetics). Students intending to attend medical school are strongly encouraged to take **PHYS 102** (General Physics II) and **MATH 115** (Calculus II).

Other requirements:

Liberal arts in practice experience (research, internship, field course, or other activity plus reflection):

Capstone experience:

Expectations:

International experience:

Interdisciplinary, synthetic, connection experience (HEAL, ENVS, WGST, IDST, etc.):