

DEGREE PLANNING GUIDE: 2026-27



BIOCHEMISTRY–B.S. (Accelerated 3 Year Plan)

Year 1	Year 2	Year 3
Semester 1 MATH 113 * CHEM 111 or 115 BIOL 207	Semester 1 CHEM 201 PHYS 211 BIOL 209 CHEM300	Semester 1 CHEM 440 CHEM 331 (Fall only or CHEM332 Spring only) BCHM 301 (2 credits)
Semester 2 MATH 114 CHEM 112 (if 111 taken in fall) (or CHEM 300 if CHEM 115 was taken in fall) BIOL 208	Semester 2 CHEM 202 PHYS 212 BIOL295 or higher* BIOL295 or higher*	Semester 2 CHEM 442 BIOL 400 - level, excluding research

Requirements for Degree

Program Core Courses

BIOL 207 Genetics, Ecology, & Evolution
 BIOL 208 Biological Communication and Energetics
 BIOL 209 Biology of Sustainability
 CHEM 111 General Chemistry I & CHEM 112 General Chemistry II or CHEM 115
 CHEM 201 & 202 Organic Chemistry I & II
 CHEM 440 & 442 Biochemistry I & II
 BCHM 301 Biochemistry Seminar (2 credits)
 CHEM 331 Chemical Thermodynamics & Reaction Dynamics or CHEM 332 Quantum Chemistry & Molecular Spectroscopy (CHEM 331 or CHEM 332 is required, the other is optional.)

Plus 12 additional credits numbered BIOL 295 or higher. Of these, four credits must be 400-level, excluding research. Four credits may be in research at the 300-level.

4 additional credits in CHEM, selected in consultation with the advisor. Recommended courses: 4-credit courses CHEM 300 - Quantitative Analysis (fall course), CHEM 320 - Instrumental Analysis (spring); 2-credit topics courses: CHEM 450 - Metals in Biology; CHEM 466 - Advanced Metabolism, or other Topics courses in CHEM at 300 or 400-level.

Allied Requirements

MATH 113 & 114 Calculus I & II
 PHYS 211 & 212 Introduction to Classical Physics I & II

Special Notes

*Biochemistry majors who do not place into MATH 113 may start with MATH 108 Calculus with Review I. Students who do not place into MATH 108 should consult with the Math Resource Center (MaRC) about how best to prepare for MATH 108. Biochemistry majors should not take MATH 101 or MATH 111.
 **Elective courses in this interdisciplinary major must be selected only after consultation with a faculty advisor in the appropriate Chemistry or Biology department.

