

Biochemistry B.S. (Bachelor of Science in Chemistry)

FRESHMAN YEAR

Fall Semester 14 Credits

CHEM 1300	General Chemistry I*	4
ENGL 1100	Writing I	3
MATH 1300	Precalculus	4
FYE 1015	First Year Experience	3

*General Chemistry requires a 'passing' score on Advanced Algebra and Functions Accuplacer placement exam OR successful completion of MATH 0500. (Algebraic Preparation) prior to enrollment. To continue as a Chemistry major, students must earn a grade of 2.0 or higher in General Chemistry I and II.

Spring Semester 15 Credits

CHEM 1400	General Chemistry II	4
BIOL 1800	General Biology I (SI)	4
ENGL 1200	Writing II	3
MATH 2300	Calculus I (QR)	4

JUNIOR YEAR

Fall Semester 16 Credits

CHEM 3030	Biochemistry I	3
PHYS 2300	General Physics I (PL)	4
	General Education/Exploration	3
	General Education/Exploration	3
	General Education/Exploration	3

Spring Semester 16 Credits

CHEM 2400	General Analytical Chemistry	4
CHEM 3040	Biochemistry II OR	
CHEM 3060	Biochemical Techniques	3
	General Education/Exploration	3
	Free Elective	3
	Free Elective	3

General Education: Foundation

- 3 credits Reading and Information Literacy (R and IL): First Year Experience
- 3 credits Writing (W): Writing I
- 3 credits Writing and Information Literacy (W and IL): Writing II
- 3 credits Quantitative Reasoning (QR) (MATH)
- 3 credits World Languages, Speaking and Listening (WS)

General Education: Exploration

- 3 credits Civic Learning (CV)
- 3 credits Diverse Perspectives (DP)
- 3 credits Ethical Reasoning (ER)
- 3 credits Fine Arts Expression and Analysis (FA)
- 3 credits Historical Inquiry and Analysis (HI)
- 3 credits Literary Inquiry and Analysis (LI)
- 3 credits Personal Wellness (PW)
- 3 credits Procedural and Logical Thinking (PL)
- 3 credits Scientific Inquiry and Analysis (SI)

General Education: Integration

- 9 credits AIA (3 of which must be Integrative High Impact Practice - IHIP)
- OR
- Minor (professional majors completing a minor or second major must include at least 9 credits in LA&S disciplines for that minor)

General Education: MAJ

- There may be major courses that have been approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by major and concentration.

SOPHOMORE YEAR

Fall Semester 14 Credits

CHEM 2000	Organic Chemistry I	4
MATH 2400	Calculus II (AIA)	4
	General Education (WS)	3
	General Education/Exploration	3

Spring Semester 14 Credits

BIOL 2800	Genetics (AIA)	4
CHEM 2100	Organic Chemistry II	4
	General Education/Exploration	3
	General Education/Exploration	3

SENIOR YEAR

Fall Semester 16 Credits

CHEM 3600	Descriptive Inorganic Chemistry	3
PHYS 2400	General Physics II	4
	Free Elective	3
	Free Elective	3
	Free Elective	3

Spring Semester 15 Credits

CHEM 4750	Chemistry Seminar (Capstone) (IHIP)	3
CHEM 3040	Biochemistry II OR	
CHEM 3060	Biochemical Techniques	3
	Free Elective	3
	Free Elective	3
	Free Elective	3

Suggested 4-year plan of study. Completion of 120 credits required for graduation.