

4-Year Plan of Study

B.S. Biology, Biotechnology



First Year

Suggested 4-year plan of study

Fall

Course Number	Course Title	Credits (14)
BIOL 1800	General Biology I	4
CHEM 1300	General Chemistry I (SI), additional notes below	4
ENGL 1100	Writing I (W)	3
FYE 1015	First Year Seminar (R & IL)	3

Spring

Course Number	Course Title	Credits (15)
BIOL 1800	General Biology II	4
CHEM 1400	General Chemistry II (PL)	4
ENGL 1200	Writing II (W & IL)	3
MATH 1300	Precalculus (QR)	4

Sophomore Year

Fall

Course Number	Course Title	Credits (16)
BIOL 2300	Ecology	4
BIOL 2250	Cell Biology or General Education Exploration Course	4
CHEM 2000	Organic Chemistry I	4
MATH ≥1300	Math Elective (QR), additional notes below	4

Spring

Course Number	Course Title	Credits (17)
BIOL 2800	Genetics	4
CHEM 2100	Organic Chemistry II	4
	General Education Exploration Course	3
	General Education Course (WS)	3
	Free Elective	3

Junior Year

Fall

Course Number	Course Title	Credits (16-17)
BIOL 2250	Cell Biology or General Education Exploration Course	3-4
PHYS 2300	General Physics I	4
	General Education Exploration Course	3
	General Education Exploration Course	3
	Free Elective	3

Spring

Course Number	Course Title	Credits (13-14)
BIOL ≥2000	Biology Elective, additional notes below	3-4
PHYS 2400	General Physics II	4
	General Education Exploration Course	3
	General Education Exploration Course	3

Senior Year

Fall

Course Number	Course Title	Credits (12-14)
BIOL ≥2000	Biology Elective	3-4
BIOL ≥2000	Biology Elective	3-4
	General Education Exploration Course	3
	Free Elective	3

Spring

Course Number	Course Title	Credits (12-16)
BIOL ≥3000	Biology Capstone	3-4
BIOL ≥2000	Biology Elective, Internship, or Independent Study	3-6
	Free Elective	3
	Free Elective	3

Completion of 120 credits is required for graduation.

General Education

Foundation (3 credits each)

- Reading & Info Literacy First-Year Exper. (R & IL)
- Writing (W): Writing I
- Writing & Info. Literacy (W & IL): Writing II
- Quantitative Reasoning (QR)
- World Languages, Speaking and Listening (WS)

Exploration (3 credits each)

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

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. For Biology majors, BIOL 3700, Bioethics, can be used as both a Biology elective and an ER course.

Additional Notes

- CHEM 1300- General Chemistry I requires a passing score on the Advance Algebra and Functions Accuplacer exam or successful completion of MATH 0500, Algebraic Preparation, prior to enrollment.
- MATH ≥1300- Applied Statistics (MATH 1700) is recommended.
- BIOL ≥2000- Both BIOL 4903 (Independent Study) and BIOL 4950 (Internship) can be used as Biology electives for up to 6 credits. Students must complete a minimum of 37 credits of Biology (BIOL) courses. Biology electives for Biotechnology students include three courses from the following cluster: BIOL 2150 (Gen Micro), BIOL 3007 (Virology), BIOL 3060 (Biochem Techniques), BIOL 3550 (Cell Culture Techniques), BIOL 4500 (Molecular Bio), or BIOL 4800 (Immunology)