

4-Year Plan of Study

B.S. Biology, Initial Teaching Licensure

(With Minor in Middle School and Secondary Education)



Suggested 4-year plan of study

First Year

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 (18)
BIOL 1800	General Biology II	4
CHEM 1400	General Chemistry II (PL)	4
ENGL 1200	Writing II (W & IL)	3
BIOL 1860	Introduction to Education (5-12), additional notes below	4
	General Education Course (WS)	3

Sophomore Year

Fall

Course Number	Course Title	Credits (17)
BIOL 2300	Ecology	4
CHEM 2000	Organic Chemistry I	4
MATH ≥1300	Math Elective (QR), additional notes below	3
EDUC 2011	Diversity in Education (5-12) (DP)	3
	General Education Exploration Course	3

Spring

Course Number	Course Title	Credits (15)
BIOL 2800	Genetics	4
CHEM 2100	Organic Chemistry II	4
EDUC 2012	Teaching the Adolescent Learner (5-12)	3
MATH 1300	Precalculus	4

Junior Year

Fall

Course Number	Course Title	Credits (13-14)
BIOL ≥2000	Biology Elective, additional notes below	3-4
PHYS 2300	General Physics I	4
	General Education Exploration Course	3
SPED 3800	Inclusive Instruction (5-12)	3

Spring

Course Number	Course Title	Credits (16-17)
BIOL ≥2000	Biology Elective	3-4
BIOL 3700	Bioethics (ER) (offered every other spring and can be taken sophomore year)	3
BIOL 3015	Methods of Teaching Biology I	3
PHYS 2400	General Physics II	4
	General Education Exploration Course	3

Senior Year

Fall

Course Number	Course Title	Credits (15-16)
BIOL ≥3000	Biology Capstone	3-4
BIOL 4850	Methods of Teaching Biology II	3
	General Education Exploration Course	3
	General Education Exploration Course	3
EDUC 3122	Sheltered English Immersion (SEI)	3

Spring

Course Number	Course Title	Credits (12)
BIOL 4860	Biology Practicum in Secondary Education (Student Teaching) I	4.5
BIOL 4870	Biology Practicum in Secondary Education (Student Teaching) II	4.5
BIOL 4012	Practicum Seminar, additional notes below	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.
- BIOL 1860, EDUC 2011, EDUC 2012, SPED 3800, BIOL 3015 and BIOL 4850 fulfill completion of the minor in Middle School and Secondary Education, which is a requirement for an initial teaching license.
- MATH ≥1300- MATH 1700, Applied Statistics, is recommended as the second math elective.
- 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. BIOL 2004 and BIOL 2005 (Human Anatomy & Physiology I and II) are strongly recommended for licensure students.
- BIOL 4012- Practicum seminar is offered during the Student Teaching Experience and helps students prepare their Teacher Work Sample. Students can not take other courses while doing their student teaching.