

B.S. and B.A. Biology Four-Year Sample Curriculum 2025-2026

Requirements subject to change. See UI Catalog for complete degree requirements and additional information. Updated 3/10/25

1 st Year – Fall Semester			1 st Year – Spring Semester		
BIOL 1010	Opportunities in Biological Sciences	1	BIOL 1150/1150L	Cells & the Evolution of Life & Lab <i>Prereq:</i> CHEM 1101 or CHEM 1111 minimum 'C' required to graduate	4
BIOL 1140	Organisms and Environments <i>minimum 'C' required to graduate</i>	4	CHEM 1120/1120L	Principles of Chemistry II & Lab <i>Prereq:</i> Chem 1111/1111L	5
CHEM 1111/1111L	Principles of Chemistry I & Lab <i>Prereq:</i> math test or min 'C' in CHEM 1101, MATH 1143 or 1170	4	STAT 2510 or *STAT 3010	Statistical Methods or Probability & Statistics <i>Prereq:</i> MATH 1080, 1143, 1160, or 1170; MATH 1750 for STATS 3010	3
MATH 1170	Analytic Geometry and Calculus I <i>Prereq:</i> math test or min 'C' in MATH 1143 and MATH 1144 (co-req possible).	4		General Education Course/Elective	3
ENGL 1102	College Writing and Rhetoric <i>Prereq:</i> ENGL 1101 or test scores	3			
	Total Credits	16		Total Credits	15
2 nd Year – Fall Semester			2 nd Year – Spring Semester		
BIOL 3100/3150 <i>(Fall only)</i>	Genetics & Lab <i>Prereq:</i> BIOL 1150/1150L or BIOL 2500	4	BIOL 2130 <i>(Spring only)</i>	Principles of Biological Structure and Function <i>Prereq:</i> BIOL 1140	4
CHEM 2770/2780	Organic Chemistry I & Lab <i>Prereq:</i> CHEM 1120/1120L	4	BIOL 3140 <i>(Spring only)</i>	Ecology and Population Biology <i>Prereq:</i> BIOL 1140 and BIOL 1150/1150L; STAT 251 or STAT 301; and MATH 1160 or MATH 1170	4
PHYS 1111/1111L or PHYS 2110/2110L	General Physics I & Lab or Engineering Physics I & Lab <i>Prereq:</i> MATH 1143 (GP); MATH 1170 (EP)	4	PHYS 1112/1112L <i>(Spring only)</i> or PHYS 2120/2120L	General Physics II & Lab or Eng. Physics II & Lab <i>Prereq:</i> PHYS 1111/1111L (GP); PHYS 2110/2110L and MATH 1750 (EP)	4
	General Education Course/Elective	3		General Education Course/Elective	3
	Total Credits	15		Total Credits	15
3 rd Year – Fall Semester			3 rd Year – Spring Semester		
BIOL 3000 or BIOL 3800 <i>(both Fall only)</i>	Survey of Biochemistry or Biochemistry I <i>Prereq:</i> CHEM 2750 or 2770 (SB); CHEM 1120/1120L and CHEM 2770 (BI)	3	BIOL 3120/3130 <i>(Spring only)</i>	Molecular and Cellular Biology & Lab <i>Prereq:</i> BIOL 1150/1150L and BIOL 3100/3150 or GENE 314 or BIOL 2500	4
*see below	Upper Division Biology Elective	3	*see below	Upper Division Biology Elective	3
ENGL 2020 or 2070 or 2080 or 3170 or 3180 or 3200	Writing Course <i>Prereq:</i> ENGL 1102; Soph. stand. 32000; Junior stand.3170,3180	3		Upper Division Biology Elective	3
	General Education Course/Elective	3		General Education Course/Elective	3
	General Education Course/Elective	3		General Education Course/Elective	3
	Total Credits	15		Total Credits	16
4 th Year – Fall Semester			4 th Year – Spring Semester		
*see below	Upper Division Biology Elective	3	BIOL 4000	Seminar	1
	Upper Division Biology Elective	3	Capstone Experience	BIOL 4010 or BIOL 4070 or BIOL 4080 <i>(Fall or Spring)</i> or BIOL 4110 <i>(Spring only)</i>	2
	General Education Course/Elective	3	BIOL 4210 <i>(Spring only)</i>	Advanced Evolution <i>Prereq:</i> One of BIOL 3100 or BIOL 3140	3
	General Education Course/Elective	3	*see below	Upper Division Biology Elective	4
	General Education Course/Elective	3		General Education Course/Elective	3
				General Education Course/Elective	3
	Total Credits	15		Total Credits	16

B.A. students use their electives to complete an additional 6 credits in humanities and 3 credits in social sciences beyond the university minimum, and up to 16 credits in a foreign language.

B.S. and B.A. Biology Four-Year Sample Curriculum 2025-2026

Requirements subject to change. See UI Catalog for complete degree requirements and additional information. Updated 3/10/25

***Upper Division Biology Electives include:** Experimental Field Ecology, Microscopic Anatomy, Immunology, Pathogenic Microbiology, Genomics, Virology, Computer Skills for Biologists, Advanced Field Botany, Neurobiology, Biodiversity, Principles of Developmental Biology, Pathophysiology, Animal Behavior, Protein Structure and Function, Mammalogy, Invertebrate Zoology, Prokaryotic Molecular Biology, Cellular and Molecular Basis of Disease, Herpetology, Intermediate Organic Chemistry, Pesticides in the Environment, Insect Ecology, Introduction to Forest Insects, Ichthyology, Mathematical Biology, Plant Pathology, Advanced Laboratory Techniques, Cell Biology, Genetic Engineering, Conservation Biology, Fish and Wildlife Population Ecology, Ornithology, Veterinary and Medical Entomology, Medical Parasitology, Arthropod and Nematoda Physiology
Additional classes can be substituted with prior approval from advisor and chairperson.