

Biology Electives - Directed Electives

(17 credits minimum, to include at least one lecture course from each of the three main Areas, at least two courses with a laboratory component, at least 1 credit of an experiential RealWorld capstone)

* Laboratory course or course with required laboratory component

^C Course qualifies as an experiential RealWorld capstone experience

Cellular and Molecular Biology

- BIOL 0350, *Genetics* (4 cr)
- BIOL 1137, *Molecular Genetics* (3 cr) ^C
- BIOL 1185, *Microbiology* (4 cr)*
- BIOL 1186, *Immunology* (3 cr) ^C
- BIOL 1188, *Lab Techniques in Immuno* (2 cr)*
- BIOL 1135, *Developmental Biology* (4 cr)* ^C
- BIOL 1280, *Special Topics in Cellular and Molecular* (3 cr)

Organismal Biology

- BIOL 1120, *Vertebrate Anatomy* (4 cr)*
- BIOL 1125, *Animal Physiology* (3 cr)
- BIOL 1225, *Animal Physiology Lab* (1 cr)*^C
- BIOL 1130, *Biology of Plants* (3 cr)
- BIOL 1230, *Biology of Plants Lab* (1 cr)*
- BIOL 1142, *Entomology* (4 cr)* ^C
- BIOL 1170, *Vertebrate Biology* (3 cr)
- BIOL 1270, *Vertebrate Biology Lab* (1 cr)*
- BIOL 1175, *Ornithology* (3 cr)
- BIOL 1275, *Ornithology Lab* (1 cr)*
- BIOL 1280, *Special Topics in Organismal* (3 cr)

Ecology and Evolution

- BIOL 1110, *Biodiversity Conservation* (3 cr)
- BIOL 1158, *Plant Diversity and Local Flora* (4 cr)*
- BIOL 1165, *Evolution* (3 cr)
- BIOL 1171, *Wildlife Management* (3 cr)
- BIOL 1271, *Wildlife Management Lab* (1 cr)* ^C
- BIOL 1172, *Animal Behavior* (3 cr)
- BIOL 1272, *Animal Behavior Lab* (1 cr)* ^C
- BIOL 1197, *Ecology of Infectious Disease* (3 cr) ^C
- BIOL 1520, *Aquatic Ecology* (3 cr) ^C
- BIOL 1615, *General Ecology Lab* (1 cr)*
- BIOL 1280, *Special Topics in Ecol and Evolution*, (3 cr)

Other

- BIOL 1200, *Independent Study* ^C
- BIOL 1161, *Internship* ^C
- BIOL 1155, *Biostatistics*

Tentative Biology Electives schedule

The required biology courses for all Biology majors, including General Biology 1 and 2, Ecology and Cell Biology, are offered almost every semester, and are not listed in the table.

Course Number	Course	Fall Odd	Spring Even	Fall Even	Spring Odd	Prerequisite	Lab	Capstone
BIOL 1185	Microbiology	x		x		Cell	required	
BIOL 1186	Immunology	x		x		Cell	optional	
BIOL 1170	Vertebrate Biology	x				Bio 2	optional	
BIOL 1142	Entomology			x		Ecology	required	lab
BIOL 1175	Ornithology			x		Bio 2	optional	
BIOL 1120	Vertebrate Anatomy	x		x		Bio 2	required	
BIOL 1158	Local Flora	x				Bio 2	optional	
BIOL 0350	Genetics	x		x		Bio 2	none	
BIOL 1197	Ecology of Infectious Disease		x		x	Cell/Ecology	none	lecture
BIOL 1125	Animal Physiology		x		x	Cell/Biochem2	optional	lab
BIOL 1155	Biostatistics		x		x	Bio 2	none	
BIOL 1172	Animal Behavior		x			Ecology	optional	lab
BIOL 1171	Wildlife Management				x	Ecology	optional	lab
BIOL 1110	Biodiversity Conservation		x			Bio 2	none	lecture
BIOL 1130	Biology of Plants				x	Bio 2	optional	
BIOL 1135	Developmental Biology		x		x	Cell	required	lab
BIOL 1137	Molecular Genetics		x		x	Genetics	none	lecture
BIOL 1165	Evolution		x			rec Genetics	none	
BIOL 1280	Special topics: Vert Paleo		x			Bio 2	none	
BIOL 1520	Aquatic Ecology	*Summer				Ecology	combined	lecture