

Biology

Requirements for the Major in Biology - Ecology and Biodiversity Track

The major requires successful completion of the following:

Course Requirements ^{1,2}

BIOL 130	Field Investigations in Biology	4
BIOL 133	Introductory Molecular Biology and Genetics ³	4
BIOL 210	Ecology (Lab)	4
BIOL 213	Evolutionary Biology	4
BIOL 223 or BIOL 224	Genetics (Lab) or Genetics	4
BIOL 324	Junior Seminar	2
BIOL 424	Senior Seminar	2
ENST 217 or STAT 204	Fundamentals of GIS or Elementary Statistics	4
Select one of the following:		4
BIOL 209 or BIOL 222	Advanced Conservation Biology or Advanced Conservation Biology (Lab)	
BIOL 232	Human Health and the Environment (Lab)	
ENST 235	Freshwater Conservation	
Select three of the following:		12
BIOL 200	Entomology	
BIOL 201	Ornithology (Lab)	
BIOL 202	Invertebrate Zoology (Lab)	
BIOL 206	Plant Ecology (Lab)	
BIOL 211	Biodiversity: Pattern and Process (Lab)	
BIOL 212	Entomology (Lab)	
BIOL 215 and BIOL 216	Fungi and Algae and Bryophytes	
BIOL 221	Environmental Physiology of Plants (Lab)	
BIOL 237	Freshwater Biology (Lab)	
BIOL 241 and BIOL 251	Rainforests and Coral Reefs and Field Study in Belize (Lab)	
BIOL 255	Herpetology (Lab)	
BIOL 260	Cave Biology	
BIOL 310	Plant Evolution and Systematics (Lab)	
BIOL 311	Behavioral Ecology (Lab)	
BIOL 313	Ecosystems and Global Change (Lab)	
BIOL 315	Advanced Topics in Ecology and Biodiversity	
BIOL 322	Genes and Behavior	
BIOL 323	Environment and Development	
BIOL 350	Environmental Physiology and Biochemistry of Animals (Lab)	
BIOL 351	Environmental Physiology and Biochemistry of Animals	
ENST 240	Island Ecology (Lab) ⁴	

Total Semester Hours

44

Additional Requirements

A comprehensive examination

¹ Courses numbered below 130 do not count toward the major.

² At least four of the required and elective biology courses must have a laboratory.

- 3 The Department of Biology will allow an AP test score of 5 or a higher level IB test score of 6 or 7 to substitute for BIOL 133. Students should be advised that mastery of the material covered in BIOL 133 is important as majors will be tested on it during their comprehensive exams.
- 4 Students who have completed and passed a) the Island Ecology summer program or b) the specific combination of the two half courses BIOL 241 and BIOL 251 may count either a) or b) as one laboratory course in the major. For purposes of calculating GPA within the major, the grade for the island ecology program will count as the equivalent of one biology class.

Required for a B.S. (but not for a B.A.) in Biology

Course Requirements

Select four additional courses in mathematics, statistics, or science outside biology, including at least two lab science courses 16

Total Semester Hours 16