

ECOLOGY AND EVOLUTIONARY BIOLOGY (BA OR BS)

In Ecology and Evolutionary Biology (EEB), students learn about how plants and animals interact, behave, evolve, and adapt, from the level of individual organisms to the population, community, and ecosystem levels.

Requirements

Both B.A. and B.S. degree candidates must complete the following courses in addition to the general CLAS requirements for these degrees:

Course	Title	Credits
BIOL 1107	Principles of Biology I	4
Select one of the following:		4
BIOL 1108	Principles of Biology II	
or BIOL 1110	Introduction to Botany	
Select one of the following options:		8-10
Option 1		
CHEM 1127Q & CHEM 1128Q	General Chemistry I and General Chemistry II	
Option 2		
CHEM 1124Q & CHEM 1125Q & CHEM 1126Q	Fundamentals of General Chemistry I and Fundamentals of General Chemistry II and Fundamentals of General Chemistry III	

Core Courses

Course	Title	Credits
Both of the following:		
EEB 2244E	General Ecology	4
or EEB 2244WE	General Ecology	
EEB 2245	Evolutionary Biology	3
or EEB 2245W	Evolutionary Biology	
Total Credits		7

Animal Diversity Courses

Course	Title	Credits
Select at least one of the following:		3-4
EEB 2214	Biology of the Vertebrates	
EEB 3254	Mammalogy	
EEB 3265	Herpetology	
EEB 3266	Field Herpetology	
EEB 3273	Comparative Vertebrate Anatomy	
EEB 4200	Biology of Fishes	
EEB 4250	General Entomology	
EEB 4260	Ornithology ¹	
EEB 4274	Introduction to Animal Parasitology	
EEB 4275	Invertebrate Zoology	

¹ If taken in combination with either EEB 4261 Ornithology Laboratory or EEB 4262 Field Methods in Ornithology.

Plant Diversity Courses

Course	Title	Credits
Select at least one of the following:		3-4
EEB 3203	Developmental Plant Morphology	
EEB 3220	Evolution of Green Plants	
EEB 3240	Biology of Bryophytes and Lichens	
EEB 3250	Biology of the Algae	
EEB 3271	Systematic Botany	
EEB 4272	The Summer Flora	
EEB 4276	Plant Structural Diversity	

Physiology Courses

Course	Title	Credits
Select at least one of the following:		3-4
EEB 2250	Introduction to Plant Physiology	
EEB 3360	Physiological Ecology of Plants	
EEB 4215	Physiological Ecology of Animals	
PLSC 4210	Plant Physiology: How Plants Work	
PNB 2250	Comparative Animal Physiology	

Extensive Laboratory and Fieldwork Courses

Students must select at least two of the following courses with extensive laboratory or fieldwork, which may include courses used to satisfy the animal or plant diversity requirement.

Course	Title	Credits
EEB 3203	Developmental Plant Morphology	4
EEB 3220	Evolution of Green Plants	4
EEB 3230	Marine Biology	3
EEB 3240	Biology of Bryophytes and Lichens	4
EEB 3250	Biology of the Algae	4
EEB 3254	Mammalogy	4
EEB 3265	Herpetology	4
EEB 3266	Field Herpetology	3
EEB 3267	Field Study of Animal Behavior	3
EEB 3271	Systematic Botany	4
EEB 3273	Comparative Vertebrate Anatomy	4
EEB 4120	Paleobiology	4
EEB 4200	Biology of Fishes	4
EEB 4230W	Methods of Ecology	4
EEB 4250	General Entomology	4
EEB 4261	Ornithology Laboratory	2
EEB 4262	Field Methods in Ornithology	3
EEB 4272	The Summer Flora	3
EEB 4274	Introduction to Animal Parasitology	4
EEB 4275	Invertebrate Zoology	4
EEB 4276	Plant Structural Diversity	4

Other Requirements

Students must also complete the following:

- At least 24 credits of EEB courses at the 2000-level or above, which may include courses in I-IV above. A maximum of three independent study credits from EEB 3899 Independent Study may count toward the 24-credit requirement.

2 Ecology and Evolutionary Biology (BA or BS)

2. Related Course Requirements: At least 12 credits of 2000-level or above science courses outside EEB, which must include MCB 2410 Genetics. One semester of organic chemistry is recommended.
3. To satisfy the Writing in the Major and Information Literacy competency requirements, all students must pass at least one W course in EEB.

Students are encouraged to complete a course in statistics.

Accelerated Biodiversity and Conservation Biology BS/MS

For students with a B.S. in Ecology and Evolutionary Biology (EEB) from the University of Connecticut, the M.S. in Biodiversity and Conservation Biology is designed as an accelerated (fifth-year) M.S. degree; such students can apply 12 credits of graduate coursework required for the M.S. towards the B.S. as well. Students who have completed a B.S. in another program must complete course requirements equivalent to the undergraduate EEB major to earn this M.S. degree.