

ECOLOGY AND EVOLUTIONARY BIOLOGY, PHD

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirements>) and policies (<https://guide.wisc.edu/graduate/#policies>), in addition to the program requirements listed below.

MAJOR REQUIREMENTS

MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	No

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW–Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirement Detail

Minimum Credit Requirement	51 credits
Minimum Residence Credit Requirement	32 credits
Minimum Graduate Coursework Requirement	26 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/).

Overall Graduate GPA Requirement	3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).
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Other Grade Requirements n/a

Assessments and Examinations Doctoral students are required to take a comprehensive preliminary/oral examination after they have cleared their record of all Incomplete and Progress grades (other than research and thesis). Deposit of the doctoral dissertation in the Graduate School is required.

Language Requirements None

Graduate School Breadth Requirement Breadth is provided via interdisciplinary training. Students are not required to earn a doctoral minor or graduate/professional certificate.

REQUIRED COURSES

Code	Title	Credits
Foundations of Ecology and Evolution		
Students must complete the courses below.		
ENTOM/BOTANY/ GENETICS/ ZOOLOGY 820	Foundations of Evolution	2
ENTOM/BOTANY/ F&W ECOL/ ZOOLOGY 821	Foundations of Ecology	2
Ecology and Evolutionary Processes		
Students must complete one of the following courses.		
ENTOM/ ZOOLOGY 540	Theoretical Ecology	
ENTOM/ GENETICS/ ZOOLOGY 624	Molecular Ecology	
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 516	Conservation Biology	
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	
Graduate Seminar		
Students must complete at least 2 courses and at least 4 credits from the following courses. At least two courses must be completed prior to reaching dissertator status.		
BOTANY 950	Seminar-Plant Ecology	
ENTOM 901	Seminar in Organismal Entomology	
F&W ECOL/ ATM OCN/ BOTANY/ ENVIR ST/ GEOG/GEOSCI/ ZOOLOGY 980	Earth System Science Seminar	
GENETICS 993	Seminar in Genetics	
ZOOLOGY 956	Seminar-Ecology	
Electives		

Coursework to meet the elective requirement will be determined through consultation with the student's advisor and members of their committee and will be based on the student's specific educational needs. 6-12

See list of common electives below. (<https://next-guide.wisc.edu/graduate/entomology/ecology-evolutionary-biology-phd/#EcologyEvolutionaryBiologyPhDCommonElectives>)

Research

The remainder of the coursework to meet the minimum credit requirement will be met via research courses selected in consultation with the student's advisor and members of their committee. 28-34

ENTOM 990	Graduate Research and Thesis
F&W ECOL 990	Research and Thesis
GENETICS 990	Research
PL PATH 990	Research
SOIL SCI 990	Research
ENVIR ST 990	Research
GEOG 990	Research and Thesis
BOTANY 995	Research-Plant Ecology
ZOOLOGY 990	Research

Total Credits **51**

Common Electives

Code	Title	Credits
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
GENETICS/ BIOLOGY 522	Communicating Evolutionary Biology	2-3
GENETICS 633	Population Genetics	3
ENTOM 450	Basic and Applied Insect Ecology	3
F&W ECOL 879		3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 550	Forest Ecology	3
LAND ARC 668	Restoration Ecology	3