

Applied Ecology (Minor)

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

The minor in Applied Ecology is intended for students interested in applying ecological concepts and principles to solving real-world problems. Students with expertise in applied ecology will be well equipped to address local and global challenges associated with a wide variety of important issues such as water quantity and quality, natural resource management, environmental conservation and restoration, climate change, and maintenance of biodiversity. To receive a minor in Applied Ecology students will be required to complete challenging courses and an in-depth research experience.

For admission, students should first complete BIO 181 and BIO 360 with letter grades of C-. To be admitted to the program, a student must have a GPA of at least 2.0. Application for admission to any University minor program is now available via MyPack Portal. Admission will be based upon the student's academic record, and in most cases no longer requires departmental review. Go to Add a Minor (<https://studentservices.ncsu.edu/your-degree/coda-home/add-a-minor/>) to apply.

Administration of the Minor

Erin McKenney

Minor Coordinator
Department of Applied Ecology
126 David Clark Laboratory
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SIS Code: 11AECM

Plan Requirements

For admission, students should first complete BIO 181 Introductory Biology: Ecology, Evolution, and Biodiversity and AEC 360 Ecology with letter grades of C- or better before contacting the Minor Coordinator.

For completion:

- All letter-graded courses must be completed with a C or better.

Code	Title	Hours	Counts towards
Required Courses		7	
PB/AEC 360	Ecology		
AEC 400	Applied Ecology		
Elective Courses		6	
AEC 295	Special Topics in Applied Ecology		
AEC 419	Freshwater Ecology		
AEC 420	Introduction to Fisheries Science		
AEC 441	Biology of Fishes		
AEC 495	Advanced Special Topics in Applied Ecology		
MEA 220	Marine Biology		
FW 353	Wildlife Management		

AEC 380	Water Resources: Global Issues in Ecology, Policy, Management, and Advocacy
AEC 460	Field Ecology and Methods
CS 213	Crop Science
CS 230	Introduction to Agroecology
CS 411	Crop Ecology
CS 430	Advanced Agroecology
ENT 203	An Introduction to the Honey Bee and Beekeeping
ENT 207	Insects and Human Disease
ENT 212	Basic Entomology
ENT 425	General Entomology
FW 404	Wildlife Habitat Management
FW 221	Conservation of Natural Resources
FW 312	Fisheries Techniques and Management
FW 314	Coastal Ecology and Management
FW 403	Urban Wildlife Management
FW 405	Tropical Wildlife Ecology
FW 453	Principles of Wildlife Science
HS 201	The World of Horticulture: Principles and Practices
HS 302	Gardening with Herbaceous Perennials
HS 303	Ornamental Plant Identification I
HS 304	Ornamental Plant Identification II
MEA 150	Environmental Issues in Water Resources
MEA 200	Introduction to Oceanography
MEA 210	Oceanography Lab

MEA 250	Introduction to Coastal Environments	
MEA 251	Introduction to Coastal Environments Laboratory	
MEA 469	Ecology of coastal Resources	
NR 300	Natural Resource Measurements	
NR 303	Humans and the Environment	
NR 350	International Sustainable Resource Use	
NR 420	Watershed and Wetlands Hydrology	
PB 200	Plant Life	
PB 213	Plants and Civilization	
PB 220	Local Flora	
PB 250	Plant Biology	
PB 403	Systematic Botany	
PB 464	Rare Plants of North Carolina	
PB 480	Introduction to Plant Biotechnology	
Research Experience		3-6
AEC 492	External Learning Experience in Applied Ecology	
AEC 493	Internal Learning Experience in Applied Ecology	
Total Hours		16-19