THE UNIVERSITY OF MICHIGAN
SCHOOL OF NATURAL RESOURCES
& ENVIRONMENT

Courses that fulfill the Applied Ecology, Resource Management and NRE Lab and Field Lab Requirements

APPLIED ECOLOGY SUBREQUIREMENTS

Terms are subject to change. Check time schedule.

NRE 311	Introduction to Aquatic Ecosystems (4) W
NRE 314	Terrestrial Vertebrate Natural History (3-4)
NRE 317	Conservation of Biological Diversity (3) W
NRE 330 (UMBS)	Habitats and Organisms (5) Su
NRE 337	Woody Plants: Biology and Identification (4) F
NRE 402	Spring Ecosystems and Plants (4) Sp
NRE 408	Wetland Ecology (3) W
NRE 409	Ecology of Fishes (3-4) W
NRE 411	Fluvial Ecosystems (4) F (B)
NRE 415	Wildlife Behavior and Ecology (4) F
NRE 418	Biology and Management of Insects (must elect for 4 credits) W
NRE 422	Biology of Fishes (3) F
NRE 425	Population Ecology (4) W
NRE 430	Soil Properties and Processes (3) F
NRE 433	Ornithology (4) F (B)
NRE 435	Forest/Terrestrial Ecology (4) F
NRE 451	Biology of Mammals (4) F (B)
NRE 455	Laboratory in Field Ecology (5) F
NRE 476	Ecosystem Ecology (3) W (B)
NRE 516	Aquatic Entomology (3) W (B)
NRE 521	Insect Ecology (4) (B)
NRE 589	Ecological Restoration (3) W

RESOURCE MANAGEMENT SUBREQUIREMENTS

Terms are subject to change. Check time schedule.

NRE 418	Biology and Management of Insects (must elect for at least 3 credits) W
NRE 419	Agricultural/Forest Pest Management (must elect for 4 credits) W (B)
NRE 420	Principles of GIS (4) W
NRE 425	Applied Population Ecology (4) W
NRE 427	Aquaculture (3-4) F
NRE 432	Forest Hydrology and Watershed Management (must elect for 3 credits) W
NRE 441	Remote Sensing of Environment (4) W
NRE 453	Tropical Conservation and Resource Management (3) F
NRE 460	Fishery Science (4) F (B)
NRE 553	Agroforestry (3) W (B)
NRE 574	Energy Demand (3) F

NRE LAB SUBREQUIREMENTS

Terms are subject to change. Check time schedule.

All SNRE undergraduates are required to take one upper-division NRE laboratory course as part of their curriculum. A laboratory course is defined as one containing at least three hours per week of independent work on identification of organisms, collection of field data, or analysis of field samples. A list of courses fulfilling this requirement follows. Additional courses (including UM Biostation course) may be petitioned.

NRE 311	Introduction to Aquatic Ecosystems (4) W
NRE 314	Terrestrial Vertebrate Natural History (4)
NRE 330 (UMBS)	Habitats and Organisms (5) Su

NRE LAB SUBREQUIREMENTS (CONTINUED)

NRE 337	Woody Plants: Biology and Identification (4) F
NRE 402	Spring Ecosystems and Plants (4) Sp
NRE 409	Ecology of Fishes (4) W
NRE 411	Fluvial Ecosystems (4) F (B)
NRE 416	Field Skills in Wildlife Behavior (2) F
NRE 418	Biology and Management of Insects (4) W
NRE 419	Agricultural/Forest Pest Management (must be taken for 3 or 4 credits) W (B)
NRE 420	Principles of GIS (4) W
NRE 423	Biology of Fishes Laboratory (1) F
NRE 425	Population Ecology (4) W
NRE 430	Soil Properties and Processes (3) F
NRE 433	Ornithology (4) F (B)
NRE 435	Forest/Terrestrial Ecology (4) F
NRE 441	Remote Sensing of Environment (4) W
NRE 451	Biology of Mammals (4) F (B)
NRE 455	Laboratory in Field Ecology (5) F
NRE 460	Fishery Science (4) F (B)
NRE 516	Aquatic Entomology (3) W (B)

FIELD SUBREQUIREMENTS

Terms are subject to change. Check time schedule.

All SNRE undergraduates are required to take one upper-division field course as part of their curriculum.
A list of courses fulfilling this requirement follows. Additional courses may be petitioned.

NRE 311	Introduction to Aquatic Ecosystems (4) W
NRE 330 (UMBS)	Habitats and Organisms (5) Su
NRE 337	Woody Plants: Biology and Identification (4) F
NRE 402	Spring Ecosystems and Plants (4) Sp
NRE 411	Fluvial Ecosystems (4) F 98 (B)
NRE 416	Field Skills in Wildlife Behavior (2) F
NRE 418	Biology and Management of Insects (4) W
NRE 423	Biology of Fishes Laboratory (1) F
NRE 430	Soil Properties and Processes (3) F
NRE 433	Ornithology (4) F
NRE 435	Forest/Terrestrial Ecology (4) F
NRE 455	Laboratory in Field Ecology (5) F
NRE 460	Fishery Science (4) F (B)
Bio 330 (UMBS)	Biology of Birds (5) Su
Bio 381 (UMBS)	General Ecology (5) Sp, Su
Bio 390 (UMBS)	Natural History and Evolution (5) Su (Occasionally)
Bio 438 (UMBS)	Biology of Mullosks (5) Su
Bio 442 (UMBS)	Biology of Insects (5) Su
Bio 455 (UMBS)	Ethnobotany (5) Sp
Bio 457 (UMBS)	Algae in Freshwater Ecosystems (5) Su
Bio 474 (UMBS)	Wetlands Ecology (5)
Bio 475 (UMBS)	Conservation Biology and Ecosystem Management (5) Su
Bio 482 (UMBS)	Limnology (5) Su
Bio 486 (UMBS)	Biology and Ecology of Fish (5) Su (B)
Bio 492 (UMBS)	Behavioral Ecology (5) Su (B)
Bio 585 (UMBS)	Ecology of Streams and Rivers (5) Su

Number in ( ) indicates credit hours.
Semester offered = W (Winter), F (Fall), Sp (Spring), SS (Spring /Summer), Su (Summer)
(B) = indicates course is offered biennially. Check schedule for availability.
(UMBS) = taught at University of Michigan Biological Station.