



Natural Resources Management

The ENST concentration in Natural Resources Management is designed to teach students concepts of the environmentally sound use and management of natural resources. Ecosystems and human societies are linked in complex cycles and relationships between vegetation and wildlife, forests and cities, conservation and development. By learning to participate effectively within these cycles, we will help sustain a harmonious relationship between the environment and human activities.

Science and Math Fundamentals Required (56-58 credits):

- ENST 200** Fundamentals of Soil Science (4)
- ENST 233** Introduction to Environmental Health (3) (NEW)
- ENST 360** Ecosystem Ecology (4) (NEW)
- ENST 389** Internship (3)
- ENST 398** Seminar (1) (NEW)
- ENST 471** Capstone Practicum (4) (NEW)
- BSCI 105** Principles of Biology I (4)
- BSCI 106** Principles of Biology II (4)
- BSCI 223** General Microbiology (4)
- CHEM 131/132** Fundamentals of General Chemistry & Lab (4)
- CHEM 231/232** Organic Chemistry I & Lab (4)
- MATH 140** Calculus I (4) -or-
- MATH 220** Elementary Calculus I (3)

- PHYS 121** Fundamentals of Physics I (4) -or-
- PHYS 117** Introduction to Physics (4)
- BIOM 301** Introduction to Biometrics (3)
- GEOL 100/110** Physical Geology & Lab (4) -or-
- GEOG 201/211** Geography of Environmental Systems & Lab (4)
- GEOG 340** Geomorphology (3) -or-
- GEOL 340** Geomorphology (4)

Resource Economics (7 credits):

- AREC 240** Introduction to Economics and the Environment (4)
- AREC 332** Introduction to Natural Resources Policy -or-
- ENST 410** Ecological Economics (3) (NEW)

Government and Politics (3 credits):

- GVPT 273** Introduction to Environmental Politics (3)

Sociology (3 credits):

- SOCY 305** Scarcity and Modern Society (3)

Resource Management and Science Electives (12 credits)

Example courses listed on reverse side

Students will take approximately 6 credits each of Resource Management and Resource Science electives to tailor their program to their specific interests (total = 12 credits). Resource Management electives cannot be double-counted as Resource Science Electives, and vice-versa. This is not an exhaustive list of electives; other science and management courses can be substituted with advisor approval.



Resource Management Electives (6 credits):

AREC 365	World Hunger, Population, and Food Supplies (3)
AREC 445	Ag. Development, Population Growth and the Environment (3)
ANTH 450	Theory and Practice of Environmental Anthropology (3)
ANSC 453	Animal Welfare and Bioethics (3)
BSCI 363	The Biology of Conservation and Extinction (3)
BSCI 366	Biodiversity Issues in Conservation Management (3)
ECON 315	Economic Development of Underdeveloped Areas (3)
ENST 305	Renewable Energy Applications (3)
ENST 334	Environmental Toxicology (3)
ENST 405	Energy and Environment (3)
ENST 413	Soil and Water Conservation (3)
ENST 415	GIS Applications in Soil Science or
ENST 425	Terrestrial Bioremediation (3)
ENST 434	Soil-Water Pollution (3)
ENST 436	Emerging Environmental Threats (3)
ENST 440	Crops, Soils and Civilization (3)
ENST 441	Sustainable Agriculture (3)
ENST 442	Remote Sensing of Agriculture and Natural Resources (3)
ENST 444	Restoration Ecology (3)
ENST 454	Environmental Issues in Plant and Soil Sciences (3)
ENST 460	Principles of Wildlife Management (3)
ENST 461	Urban Wildlife Management (3)
ENST 462	Field Techniques in Wildlife Management (2)
ENST 479	Tropical Ecology and Resource Management (1-6)
GEOG 437	Global Climate Change: Past and Present (3)
GEOG 472	Remote Sensing: Digital Processing and Analysis (3)
GEOG 473	Geographic Information Systems and Spatial Analysis (3)
LARC 450	Environmental Resources (3)
LARC 451***	Sustainable Communities (1-6)

Resource Science Electives (6 credits):

ANSC 252	Introduction to the Diseases of Wildlife (3)
ANSC 452	Avian Physiology (3)
BSCI 360	Principles of Animal Behavior (3)
BSCI 362	Ecology of Marsh and Dune Vegetation (2)
BSCI 373	Natural History of the Chesapeake Bay (3)
BSCI 375	Biological Oceanography (3)
BSCI 440	Mammalian Physiology (4)
BSCI 441	Mammalian Physiology Laboratory (2)
BSCI 442	Plant Physiology (4)
BSCI 462	Population Ecology (3)
BSCI 463	Laboratory and Field Ecology (2)
BSCI 464	Microbial Ecology (3)
BSCI 467	Freshwater Biology (4)
BSCI 473	Marine Ecology (3)
BSCI 481	Insect Diversity and Classification (4)
BSCI 493	Medicinal and Poisonous Plants (3)
ENST 308	Field Soil Morphology (1-2)
ENST 414	Soil Morphology, Genesis and Classification (4)
ENST 421	Soil Chemistry (4)
ENST 422	Soil Microbiology (3)
ENST 430	Wetland Soils (3)
ENST 450	Wetland Ecology (3)
ENST 451	Water Quality: Field and Lab Analysis Methods (3)
GEOG 345	Introduction to Climatology (3)
GEOG 440	Advanced Geomorphology (3)
GEOG 444	Low Temperature Geochemistry (4)
GEOG 451	Groundwater (3)
GEOG 452	Watershed and Wetland Hydrology (3)
PLSC 453	Weed Science (3)

*** Must take at least one additional course, 6 credits of one course does not fulfill requirement.