



Lake and Stream Restoration

Imagine a career conserving water resources and remediating contaminated lakes and streams. If you are interested in the biotic, physical and chemical processes that occur in lakes and streams and would like to environmentally manage problems related to water quality, you can realize your career goals through our lake and stream restoration option.

Make an appointment with one of our faculty advisers to learn more.

ENVIRONMENTAL
RESTORATION
SCIENCE DEGREE PROGRAM

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School of Natural Resources



Career Path

Environmental Scientist, Hydrogeologist, Wetlands Scientist, Environmental Chemist, Private Industry Consultant

Special Emphasis Courses

Water Science, Toxins in the Environment, Chemistry of Natural Waters, Limnology, Hydrology, Lake and Reservoir Restoration, Water Quality Strategies, Pollution Prevention, Stream and River Ecology

Internships Available

U.S. Bureau of Land Management, U. S. Geological Survey, U. S. Department of Agriculture, U.S. Natural Resources Conservation Service, U.S. Environmental Protection Agency, Environmental Engineering Firms, Nebraska Natural Resources Commission, Water Conservation Districts



University of Nebraska–Lincoln

Environmental Restoration Science Major Requirements

LAKE AND STREAM RESTORATION OPTION

This option is designed for students considering careers in water quality, aquatic ecology, or limnology. The student will learn the important biotic, physical and chemical processes that occur within lakes and streams and be prepared to environmentally manage problems related to water quality. Students will also be prepared to implement pollution abatement procedures or management practices associated with lake and stream restoration. Careers focus on environmental assessment, water conservation, remediation of lakes and streams. Completion of this program also provides excellent preparation for graduate study.

<i>Lake and Stream Restoration Option Requirements</i>	<i>14 cr</i>	
BIOS 109 General Botany (4 cr)		4
BIOS 112 and 112L Intro to Zoology/Lab		4
NRES 496 Stream and River Ecology (3 cr)		3
NRES 470 Lake and Reservoir Restoration (3 cr)		3

Other Lake and Stream Restoration Option Electives (3-9 cr)

Biological Sciences courses

- BIOS 381 Invertebrate Zoology (4 cr)*
- BIOS 454 Ecological Interactions (4 cr)*
- BIOS 457 Ecosystem Ecology (4 cr)*
- BIOS 473 Freshwater Algae (4 cr)*
- BIOS 488 Natural History of the Invertebrates (4 cr)*

Biological Systems Engineering Courses

- BSEN/CIVE 422 Pollution Prevention (3 cr)**
- BSEN/CIVE 455 Non-Point Source Pollution Control Engineering (3 cr)**

Entomology courses

- ENTO 402/402L Aquatic Insects/Lab (3 cr)*

Chemistry courses

- CHEM 251/253(L) Organic Chemistry (4 cr)*

Natural Resources courses

- NRES 211 Wildlife Biology and Conservation (3 cr)*
- NRES 312 Introduction to Geospatial Information Systems (3 cr)*
- NRES 388 Employment Seminar (1 cr)*
- NRES 412 Introduction to Geographic Information Systems (4 cr)*
- NRES 415 Water Resources Seminar (1 cr)*
- NRES 418 Introduction to Remote Sensing (4 cr)*
- NRES 419/419L Chemistry of Natural Waters/Lab (4 cr)*
- NRES 420 Applications of Remote Sensing in Agriculture and Natural Resources (4 cr)*
- NRES 421 Field Techniques in Remote Sensing (3 cr)*
- NRES 475 Water Quality Strategies (3 cr)*
- NRES 463 Fisheries Science (4 cr)*
- NRES 464 Fisheries Biology (3 cr)*
- NRES 468 Wetlands (4 cr)*
- NRES 489 Ichthyology (4 cr)*
- NRES 497 Career Experiences (1 cr)*

Plant Pathology Courses

- PLPT 270 Biological Invaders (3cr)*
- PLPT 370 Biology of Fungi (3 cr)*

* Because of prerequisites, students wishing to enroll in these courses should first seek counsel from their advisor and then request permission from instructor.

And/or any optional courses listed but not taken under the *Natural Resource Core Courses*, *Environmental Restoration Science Courses*, or *Option Requirements* headings in this program.