

What is it?

Natural Resources and Environmental Engineering is one of the four specialization options within the Biological Systems Engineering major. It focuses on the management and conservation of our natural resources.

In the Industry

Conserving soil and water resources is critical to our future. Expanding populations and increasing needs for food, goods, and services are placing an ever growing demand upon our precious soil and water resources.

Natural resources and environmental engineers are finding ways to manage and conserve our resources today so that we can meet the demands of the future.

Our program is accredited by the Engineering Accreditation Commission of ABET.



Biological Systems Engineering

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Engineering
Technology
Accreditation
Commission



Biological Systems Engineering

UNIVERSITY OF WISCONSIN-MADISON



Natural Resources and Environmental Engineering Option



Natural Resources and Environmental Engineering

Natural resources and environmental engineers work with all kinds of natural resources, such as water, soil, plants, and air. For example, they could be responsible for the design of livestock or wildlife watering stations in a natural forest or the design of a recycling waste management system on a dairy farm. These engineers plan and design conservation practices on the landscape to better manage runoff and soil erosion to protect water quality.

Graduates find challenging and rewarding work with engineering and environmental consultants, with government agencies such as the Forest Service, and with companies such as Valmont Irrigation and Creative Habitat.

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Where might I work?

Examples of positions that recent Natural Resources and Environmental Engineering graduates have taken include:

- Engineer, City of Madison Engineering
- Environmental Engineer – Eder Associates
- Environmental Technician – RMT, Inc.
- Landfill Manager – Superior Services, Inc.
- Permitting Engineer, The Probst Group
- Surveying Technician, CA – Grothman & Associates
- Technical Assistance – Dane County LCD
- Water Resources Engineer, AECOM

AECOM



What is a typical starting salary?

- Typical starting salaries vary from \$50,000 to \$60,000.

Degree Requirements

Total Credits

- The minimum requirement for a Bachelor of Science degree is 125 Credits

General Studies: 20-23 Credits

- Social Sciences
- Humanities
- Ethnic Studies
- Economics
- International Studies
- Oral and Written Communication

Basic Sciences: 37-40 Credits

- Biological Science
- Mathematics
- Chemistry
- Physics

Engineering Sciences: 21 Credits

- Fluids
- Statics and Mechanics of Materials
- Thermodynamics
- Engineering Economics
- Material Properties
- Instrumentation

Natural Resources and Environmental Engineering Option: 44-50 Credits

- Conservation and Nutrient Management Engineering
- Irrigation and Drainage
- Small Watershed Engineering
- Small Scale Domestic Waste Systems
- Design Capstone
- Technical Electives

More detailed information can be found on our website: bse.wisc.edu