

## Natural Resources & Environmental Engineering Requirements



### General Studies 20 - 23 Credits

Social Sciences  
Humanities  
Ethnic Studies  
Economics  
International Studies  
Oral and written communication

### Natural Resources and Environment Option 44 - 50 Credits

Conservation and nutrient management engineering  
Irrigation and drainage  
Small watershed engineering  
Small scale domestic waste systems  
Design capstone  
Technical electives

### Basic Sciences 37 - 40 Credits

Biological Science  
Mathematics  
Chemistry  
Physics

### Minimum Requirements for a Bachelor of Science Degree 128 credits

The curriculum changes from year to year. Updated curriculum sheets with exact requirements can be obtained from the department. For more details, please consult the university catalogue or visit our website.

### Engineering Sciences 21 Credits

Fluids  
Statics and Mechanics of Materials  
Thermodynamics  
Engineering Economics  
Material properties  
Instrumentation

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Biological Systems Engineering  
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# Natural Resources & Environmental Engineering



### Conserving for the Future

Conserving natural 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. Society demands that our environment be protected from pollutants. Natural Resources and Environmental Engineers are finding ways to manage and conserve our resources today so that we can meet future demands without endangering our environment.



### Career Opportunities

Natural Resources & Environmental Engineers combine engineering with environmental and agricultural sciences to solve engineering problems related to our environment. Engineers work in both urban and rural settings to design, modify and improve erosion control and run off systems, animal and human waste systems, irrigation and drainage systems, and pollutant management systems to improve water quality. Natural Resources & Environmental Engineers find most career opportunities within government agencies and environmental consulting firms.



### Academic Preparation

The Natural Resources & Environmental Engineering area will be the place for you if you enjoy math and science and are interested in the environment, biology, agriculture or engineering. Your college prep curriculum should include at a minimum, classes in algebra, biology, chemistry, and trigonometry. You should also take any advanced math or science classes that are available.

### The Biological Systems Engineering Department

Natural Resources & Environmental Engineering is a program option within the Biological Systems Engineering (BSE) Department at the University of Wisconsin-Madison. The BSE Department offers a personalized education that includes a wide-variety of classes with hands-on experience. You won't be just another number in your Natural Resources & Environmental Engineering courses. We have small class sizes taught by professors who know each student by name. This one-on-one interaction and personal attention is a cornerstone of our program.

### Learning Outside the Classroom

- Student Internships
- Faculty Research Projects
- Student Chapter of ASAE - the society for engineering in agricultural, food, and biological systems
- Engineering Expo - a biannual event displaying creative engineering projects
- Wisconsin Engineer - a student-run magazine for engineers

### Financial Aid Resources

- College of Agriculture and Life Sciences Scholarship Program
- Biological Systems Engineering Department
- Work Study
- UW-Madison Financial Aid



### Other Option Areas

The BSE Program has 3 other option areas:

- Machinery Systems Engineering
- Structural Systems Engineering
- Food and Bioprocess Engineering

*Please visit our website at*

***<http://bse.wisc.edu>***

*to learn more about  
Natural Resources and Environmental Engineering at the  
University of Wisconsin-Madison.*

### Student Testimonials

“I’m not just a number here. The faculty knows who I am.”

“The combination of engineering and biological sciences.”

“Small in size, yet large in individual attention.”

“My advisor is always willing to help and answer any questions.”