



ILLINOIS

COLLEGE OF  
ACES

Department of  
Natural Resources and  
Environmental Sciences

# Fall 2018 Online M.S. Courses in Natural Resources and Environmental Sciences

Learn more about the NRES Online M.S. Program at  
[nres.illinois.edu/online](http://nres.illinois.edu/online)

## NRES 403 Watersheds & Water Quality

Tuesdays and Thursdays 6:30 PM – 8:30 PM (August 27 – December 12)

Instructor: Dr. Robert Hudson, Associate Professor

Credit Hours: 3 (CRN 65583)

Explore the biological, geochemical, and physical responses of watershed systems to pollution and anthropogenic changes. An emphasis will be placed on technical analyses necessary to establish policy aimed at preserving and restoring streams, rivers, lakes and wetlands. This course is particularly useful to water resource managers, landscape planners and land managers, water monitors, environmental consultants, restoration ecologists and conservationists. Please note that students are required to attend two nights per week.



Register today! Visit  
[online.illinois.edu/getting-started](http://online.illinois.edu/getting-started)

Tuition and Fees: \$686/credit hour

Questions? Email us:  
[nres-ssc@illinois.edu](mailto:nres-ssc@illinois.edu)

## NRES 419 Env and Plant Ecosystems

Tuesdays 6:00 PM – 9:00 PM (August 27 – December 12)

Instructor: Dr. Anton Endress, Professor Emeritus

Credit Hours: 3 (CRN 56727)

If you are interested in understanding concepts relevant to conservation or restoration ecology, or if you are interested in understanding how natural and modified ecosystems are being affected by (and, in turn are affecting) global environmental change, this is the course you need! Using an interdisciplinary (physics, geology, geography, and biology) approach, the course will explore factors that control terrestrial ecosystems (including energy, water, and light) and how different systems respond to disturbance, which in-turn affects global dynamics.

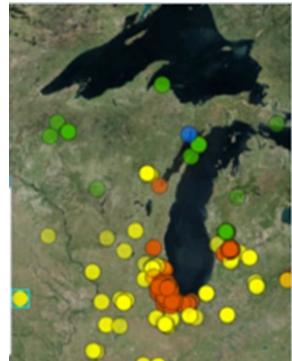
## NRES 454 GIS for Natural Resource Management

Wednesdays 6:30 PM – 9:30 PM (August 27 – December 12)

Instructor: Kingsley Allen, GIS Manager, Illinois State Water Survey

Credit Hours: 4 (CRN 62154)

Geographical information systems (GIS) is a tool used for managing geographic and spatial data. In recent years, this technology has been adopted by government agencies, homeland security, urban planners, emergency services personnel, real estate and property managers, weather forecasters, and other professionals who need to capture, store, manipulate and analyze spatial data. Persons taking this course will become comfortable with map elements, vector and raster displays, shapefiles, structured query language, and have the ability to translate data from external files and prepare metadata for map modeling and a variety of map applications.



See other side for more courses. Full course details available at [http://go.nres.illinois.edu/FA2018\\_Online\\_MS\\_Courses](http://go.nres.illinois.edu/FA2018_Online_MS_Courses).

## How do students describe the NRES Online M.S. courses?

“Scientifically rigorous” • “On point and relevant” • “Interesting and interactive”

### **NRES 499 Illinois Environmental Law and Policy (section XM2)**

Mondays 6:30 PM – 8:30 PM (August 27 – December 12)

Instructor: Jennifer Walling, Director, Illinois Environmental Council

Credit Hours: 3 (CRN 70873)

Analyze elements needed to pass policy to protect the environment and the political viability of policy solutions. Understand the role that scientists can have as experts testifying on policy. Improve your skills in organization, negotiation, and power analysis. Study bills and issues that are currently under consideration in the government, with in-depth focus on Illinois state legislature. Explore the role of public advocacy and how campaigns are influenced by different targets. Learn more about how to discuss the results of your research in a way that is easy for the public to understand, without losing academic integrity.



### **NRES 499 Human Dimensions of Invasive Species (section XM4)**

Asynchronous (August 27 – December 12)

Instructor: Dr. Glenn Sandiford, Adjunct Assistant Professor

Credit Hours: 3 (CRN 70876)

Introduction of non-native species for agriculture and biocontrol is commonly motivated by aesthetic or economic interests. In recent years, however, some of these exotic invasive species have become a global issue making headline news. This on-line course examines the human dimensions of non-native plants and animals in the United States, from nineteenth-century to present including invasions by numerous insect pests and the current controversy about Asian carp in the Midwest. This course will cover historical, social, economic, political, and ethical aspects of the invasive species phenomenon.

### **NRES 500 Graduate Seminar**

Asynchronous (August 27 – December 12)

Instructor: Renee Gracon, Online Advising Specialist

Credit Hours: 1 (CRN 32902)

Listen to dynamic guest speakers describing their current research on a wide variety of specialized topics in natural resources and environmental sciences. Through viewing the recordings and summarizing the presentations you will hone your skills in reflective analysis and scientific writing. Previous presentations have included such topics as spatial analysis of land use changes, epidemiology work on important tropical infectious diseases, what drives forest leakage, how nature may promote health, and the effect of cover crops on soil organic carbon.

See other side for more courses. Full course details available at [http://go.nres.illinois.edu/FA2018\\_Online\\_MS\\_Courses](http://go.nres.illinois.edu/FA2018_Online_MS_Courses).