MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE-MASTER OF SCIENCE IN INTELLIGENT SYSTEMS ENGINEERING

The dual Master of Science in Environmental Science-Master of Science in Intelligent Systems Engineering (MSES-MS) is designed to train future environmental scientists and engineers to effectively address contemporary environmental challenges with forward-thinking technical solutions. Offered by the Paul H. O'Neill School of Public and Environmental Affairs and the Luddy School of Informatics, Computing, and Engineering at Indiana University Bloomington, this 51-credit-hour program uses the strengths of both schools to help you engineer the environment of the future.

This program will provide the opportunity for you to apply emerging technological solutions and computational approaches to address the major environmental issues of our time. Hands-on experiences like internships and consulting-based capstone projects will allow you to take theories and turn them into practice and relevant job experience.

O'NEILL
SCHOOL OF PUBLIC AND
ENVIRONMENTAL AFFAIRS

LUDDY
SCHOOL OF INFORMATICS,
COMPUTING, AND ENGINEERING

Graduates of this unique dual-degree program will enter into fields with strong future employment opportunities. The multidisciplinary approach of this program, coupled with the skills gained to translate the complexities of the natural world to individuals trained in data science, computer science, and artificial intelligence, will set you apart.

SKILLS-BASED CURRICULUM

This dual degree provides flexibility to tailor the program to your interests. Coursework in environmental project management, statistical analysis for environmental science, environmental engineering, and the basics of intelligent systems will provide a broad-based foundation to build upon in later coursework and practical experiences. Then, you will delve deeper into competency-based coursework in economics, management, policy, and computing tools to prepare you for the workforce.

You will select coursework from both the O'Neill School's environmental science and the Luddy School's intelligent systems engineering offerings. You will understand the impacts of climate change on our natural resources, and design computer architecture to process environmental data to help policy leaders make well-informed decisions.

The program curriculum will ensure you graduate with practical experience to make you stand out in the workforce. You will complete an internship with an organization aligned with your interests, and work alongside your peers in a consulting-based capstone experience to apply everything you've learned in the classroom to real-world situations.

COURSEWORK EXAMPLES:

- Climate change impacts on natural resources
- Environmental risk analysis
- Engineering distributed systems
- Computational bioengineering
- Python programming for environment and policy
- Big data applications
- Sensors and remote sensing

37,000+ members in our global alumni network

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