

# ENERGY AND ENVIRONMENTAL MANAGEMENT (MS)

Jointly offered by the College of Agriculture, Health, and Natural Resources and the College of Liberal Arts and Sciences.

The Master of Energy and Environmental Management (MEEM) program offers a Master of Science (M.S.) degree through an interdisciplinary partnership involving the Department of Natural Resources and the Environment, Department of Geography, School of Law, and Center for Environmental Sciences and Engineering. The MEEM is designed for college graduates looking for advanced study in energy and environmental management fields, and working professionals looking to enhance their skills and knowledge in science, management, and policy.

## Master of Science Requirements

The MEEM requires 27 credits of coursework and three credits of internship or practicum, for a total of 30 credits. The MEEM generally takes 18 to 24 months to complete and conforms to the Graduate School requirements for a Plan B Non-thesis Master's Degree.

Course	Title	Credits
<b>Required Courses</b>		
LAW 7812		3
NRE 5200	Sustainable Natural Resources Management	3
NRE 5220	Environmental Planning for Sustainable Communities and Regions	3
NRE 5830	Internship in Energy and Environmental Management	3
or NRE 5850	Practicum in Energy and Environmental Management	
<b>Electives</b>		
Specialty Area (p. 1) <sup>1</sup>		18
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> 18 credits drawn from one or more specialty area

## Specialty Areas

Some courses taken within a specialty area may fulfill requirements of a stand-alone graduate certificate program that may be earned concurrent with the MEEM.

### Sustainable Environmental Planning and Management

Course	Title	Credits
NRE 5200	Sustainable Natural Resources Management <sup>1</sup>	3
NRE 5205	Decision Methods in Natural Resources	3
NRE 5210	Communications for Environmental Decision Makers	3
NRE 5215	Introduction to Geospatial Analysis with Remote Sensing	3
NRE 5220	Environmental Planning for Sustainable Communities and Regions <sup>1</sup>	3

NRE 5225	Sustainable Use of Ocean Resources	3
NRE 5230	Sustainability Leadership in Organizations	3
NRE 5585	Python Scripting for Geospatial Analysis	3

<sup>1</sup> Required courses for the Master of Energy and Environmental Management are listed under electives only for illustrative purposes of content under each graduate certificate program. Required courses will not count towards elective course requirements.

### Geographic Information Systems

Course	Title	Credits
GEOG 5100	Location Analysis	3
GEOG 5130		3
GEOG 5230	Advanced GIS for Remote Sensing for Geoscience Applications	3
GEOG 5390		3
GEOG 5500	Fundamentals of Geographic Information Science	3
GEOG 5505	Remote Sensing of Marine Geography	3
GEOG 5510	Applications of Geographic Information Systems	3
GEOG 5512	Introduction to Spatial Data Science	3
GEOG 5515	Web GIS	3
GEOG 5516	Fundamentals of Spatial Database Systems	3
GEOG 5518	Mobile GIS	3
GEOG 5520	GIS Modeling of the Urban Environment	3
GEOG 5530	GIS for Health and Environment	3
GEOG 5540	Social Dimensions of Renewable Energy	3
GEOG 5600	Spatial Data Analysis	3
GEOG 5610	Spatial Statistics and Modeling	3
GEOG 5620	Computer Applications in Spatial Analysis	3
GEOG 5895	Special Topics in Geography	1-6
NRE 4535	Remote Sensing Image Processing	3
NRE 5525	Remote Sensing of the Environment	3
NRE 5535	Remote Sensing Image Processing	3
NRE 5560	High Resolution Remote Sensing: Applications of UAS and LiDAR	3
NRE 5575		4
NRE 5585	Python Scripting for Geospatial Analysis	3

### Energy and Environmental Law

Course	Title	Credits
LAW 7356		3
LAW 7554		3
LAW 7568		3
LAW 7600		3
LAW 7650		3
LAW 7656		3
LAW 7721		3
LAW 7758		3
LAW 7784		3
LAW 7805		3
LAW 7806		3

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LAW 7812	<sup>1</sup>	3
LAW 7842		3

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