MASTER OF NATURAL RESOURCES (MNR)

MNR 500, MARKET TOOLS FOR MANAGING GREENHOUSE GAS EMISSIONS, 3 Credits
Examines the use of market-based approaches to managing greenhouse gas emissions; the role of forestry and natural resource management in mitigating greenhouse gas emissions; and the design of carbon and offset markets in the context of broader climate change policies. CROSSLISTED as FES 500/MNR 500.
Equivalent to: FES 500
Recommended: MTH 111
Available via Ecampus

MNR 511, INTRODUCTION TO SUSTAINABLE NATURAL RESOURCES, 3 Credits
Overview of economic, environmental, social, cultural, ethical, and policy considerations of sustainable natural resource management. International collaborative efforts to address global natural resource issues. Key policy drivers, key stressors, balancing competing interests. Introductory course required for all Master of Natural Resources students; open to other graduate students. Taught via Ecampus only.
Recommended: Undergraduate biology or ecology course
Available via Ecampus

MNR 519, DIVERSITY, EQUITY AND INCLUSION IN NATURAL RESOURCE MGMT, 3 Credits
Explores practical approaches to operationalizing diversity, equity and inclusion (DEI) principles in natural resource management organizational settings, programs and outdoor settings. Examines case studies on topics such as accessibility to recreational places, implicit bias and cultural competency in public communications, and how enhancing workplace diversity increases social capital. Introduces DEI analysis through a research project in their local area.

MNR 522, RESEARCH METHODS SOCIAL SCIENCE, 4 Credits
An introduction to research methods applied to social science issues and problems. Emphasis is on the nature of the research process, how to conduct research, and how to interpret and disseminate research results. Lec/lab.
Equivalent to: FES 522
Recommended: Upper-division or graduate level statistics

MNR 530, TROPICAL FOREST ECOLOGY AND MANAGEMENT: A GLOBAL PERSPECTIVE, 3 Credits
Study of tropical forest ecology and the common ecological patterns found within tropical forests. The threats and challenges that tropical forests face in the 21st century and the issues of human use and their impacts. Developing strategies for sustainable management and restoration approaches to alleviate pressure on remaining tropical forests. Taught via Ecampus only.

MNR 538, ADAPTING FORESTS TO CLIMATE CHANGE, 3 Credits
Climate change is expected to have profound effects on forests. Society can respond by managing in forests in ways that can help mitigate climate change or help forests adapt. Nonetheless, changes in climate and forest responses are uncertain, making management and policy decisions difficult and controversial. We will investigate the effects of climate change on forests, focusing on potential forest management and policy responses.
Available via Ecampus

MNR 550, CLIMATE CHANGE IMPACTS ON FOREST ECOSYSTEMS, 3 Credits
Forest management responses to climate change rely on understanding the mechanisms of interaction between forests and climate, as well as the capacity to evaluate impacts of future climate scenarios on forests. Considers effects of rising CO2 and changing climate at the level of ecophysiological processes, changes in species distribution, changes in disturbance regimes, and ecosystem-level impacts mediated by the water, carbon, and nitrogen cycles. Modeling approaches include statistically-based bioclimatic envelopes, and dynamic global vegetation models that treat ecosystem processes and changes in biome distribution.
Recommended: Basic ecology course
Available via Ecampus

MNR 560, DEVELOPING THE MNR CAPSTONE PROPOSAL, 3 Credits
Applies content from across the MNR degree in developing a capstone project. Explores the types of capstone projects and methodologies. Identifies and evaluates the data needed to address natural resource problems or topics. Develops outlines for students’ individualized MNR capstone projects.
Prerequisite: MNR 511 with C or better
Available via Ecampus

MNR 561, MNR CAPSTONE PROJECT, 1-6 Credits
Students work with their major advisor on the completion of their capstone project at the end of the MNR degree program. Students incorporate knowledge gained from coursework to address a natural resource problem within interconnected ecological, economic and social contexts.
Prerequisite: MNR 560 with C or better or SNR 506 with P or better
This course is repeatable for 12 credits.
Available via Ecampus