

NRM111X INTRODUCTION TO SUSTAINABILITY SCIENCE

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Course Description

This course provides an overview of sustainability science, including the concepts of sustainable development, the three pillars of sustainability (economic, social, and environmental), and the role of science in addressing global challenges. Students will explore the interconnectedness of these systems and the importance of interdisciplinary approaches. The course covers topics such as climate change, resource management, and social equity. Through a combination of lectures, readings, and case studies, students will gain a comprehensive understanding of the complex issues surrounding sustainability.

The course is designed to be interdisciplinary, drawing on knowledge from various fields such as biology, chemistry, physics, economics, and sociology. Students will be encouraged to think critically and apply their knowledge to real-world problems. The course also emphasizes the importance of communication and collaboration in addressing global challenges.

Upon completion of this course, students will be able to:

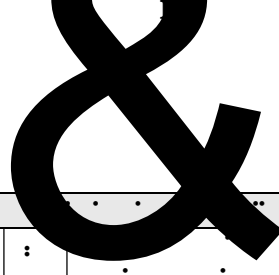
- Define and explain the concept of sustainability and the three pillars of sustainability.
- Analyze the interconnectedness of economic, social, and environmental systems.
- Identify and evaluate the role of science in addressing global challenges.
- Apply interdisciplinary approaches to complex sustainability issues.
- Communicate effectively about sustainability science.

Course Information

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Course Description

This course provides an overview of sustainability science, including the concepts of sustainable development, the three pillars of sustainability (economic, social, and environmental), and the role of science in addressing global challenges. Students will explore the interconnectedness of these pillars and the importance of a systems approach to sustainability. The course will also cover the role of policy, governance, and stakeholder engagement in achieving sustainable development goals.

The course is designed for students with a background in science or engineering. It will involve a combination of lecture, discussion, and hands-on activities. Students will be expected to participate actively in class and to complete assignments and projects.

The course will cover the following topics:

- Introduction to sustainability science
- The three pillars of sustainability
- The role of science in sustainability
- Global challenges and the SDGs
- Policy, governance, and stakeholder engagement
- Case studies of sustainability science in action

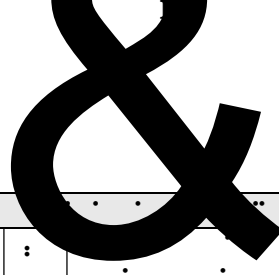
The course will be taught in a lecture format with some hands-on activities. Students will be expected to participate actively in class and to complete assignments and projects.

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Course Description

This course provides an overview of the complex and interconnected systems of the Earth, including the atmosphere, hydrosphere, geosphere, and biosphere. It explores the interactions between these systems and the impact of human activities on the environment. The course covers topics such as climate change, natural resource management, and the role of science in addressing sustainability challenges. Students will gain a deep understanding of the scientific principles underlying these systems and the importance of interdisciplinary approaches in sustainability science.

The course is designed to provide students with a solid foundation in sustainability science, preparing them for advanced study and professional careers in environmental science, policy, and management. Through a combination of lectures, readings, and hands-on activities, students will develop critical thinking skills and the ability to analyze complex environmental issues. The course also emphasizes the importance of ethical considerations and the role of science in informing policy and decision-making.

By the end of the course, students will be able to:

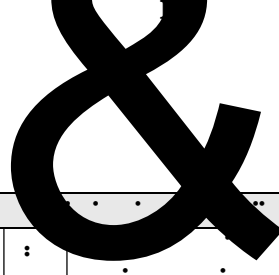
- Describe the major components of the Earth system and their interactions.
- Analyze the impact of human activities on the environment.
- Evaluate the role of science in addressing sustainability challenges.
- Apply interdisciplinary approaches to sustainability science.
- Understand the importance of ethical considerations in sustainability science.

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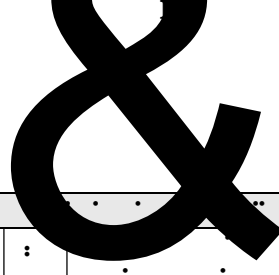
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NRM111X INTRODUCTION TO SUSTAINABILITY SCIENCE

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Course Description

This course provides an overview of the complex interactions between human societies and the natural world. It explores the historical and contemporary challenges of sustainability, including climate change, resource scarcity, and environmental degradation. The course is designed to equip students with the knowledge and skills necessary to understand the root causes of these issues and to identify effective solutions. Through a combination of lectures, readings, and case studies, students will gain a comprehensive understanding of the scientific, social, and economic dimensions of sustainability. The course also emphasizes the importance of interdisciplinary collaboration and the role of individuals and organizations in creating a more sustainable future.

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