# **SECTION HEADING**

# **NSCI 1100: Issues in the Environment**

## Description

Issues in the Environment takes a broad look at environmental issues and explores in depth certain global, national, and local environmental problems. In addition to lecture, guest speakers, field trips, and videos may be used.

#### **Credits**

3

#### **Prerequisite**

STSK 0090 or placement by multiple measures

#### Corequisite

None

### **Topics to be Covered**

- 1. Ecosystems
- 2. Biodiversity sustaining it and interactions of organisms
- 3. Human population and urbanization
- 4. Climate and climate change
- 5. Air pollution and ozone depletion
- 6. Water resources and water pollution
- 7. Energy Renewable and nonrenewable
- 8. Environmental hazards
- 9. Physical science of matter and biogeochemical cycling
- 10. Food soil and pest management
- 11. Invasive species
- 12. Waste management
- 13. Environmental sustainability

## **Learning Outcomes**

- 1. Define biodiversity, climate, climate change, sustainability and ecosystems.
- 2. Identify the relationship between human actions and air pollution/water pollution/ozone depletion/environmental hazards/ climate change and how these issues impact economies and politics.
- 3. Identify renewable/nonrenewable energy sources and environmental hazards and explain how humans can influence the use/nonuse of these resources.
- 4. Illustrate biogeochemical cycles, how climate change occurs, and energy flow through ecosystems.
- 5. Identify ways to address local, regional and global environmental issues and live more sustainably.
- 6. List the factors that influence human population growth, urbanization, environmental politics and environmental economics.

## **Credit Details**

Lecture: 3

Lab: 0

OJT: 0

MnTC Goal Area(s): Goal Area 08- Global Perspective, Goal Area 10: People and the Environment

#### Minnesota Transfer Curriculum Goal Area(s) and Competencies

Goal Area 08: Global Perspective

1. Describe and analyze political, economic, and cultural elements which influence relations of states and societies in their historical and contemporary dimensions.

# **Section Heading**

- 2. Demonstrate knowledge of cultural, social, religious and linguistic differences.
- 3. Analyze specific international problems, illustrating the cultural, economic, and political differences that affect their solution.
- 4.Understand the role of a world citizen and the responsibility world citizens share for their common global future.

Goal Area 10: People and the Environment

- 1. Explain the basic structure and function of various natural ecosystems and of human adaptive strategies within those systems.
- 2. Discern patterns and interrelationships of bio-physical and socio-cultural systems.
- 3.Describe the basic institutional arrangements (social, legal, political, economic, religious) that are evolving to deal with environmental and natural resource challenges.
- 4. Evaluate critically environmental and natural resource issues in light of understandings about interrelationships, ecosystems, and institutions.
- 5. Propose and assess alternative solutions to environmental problems.
- 6.Articulate and defend the actions they would take on various environmental issues.