Environmental Science 1st Semester

CONTENT DATE

INTRO. TO ENVIRONMENTAL SCIENCE

August 6 - 7

• Lab: Introduction to Lab Safety

ENERGY AND MATTER IN ECOSYSTEMS

August 10-September 18

- Population Ecology
- Community Ecology
- Energy Flow in Ecosystems
- Lab: Local Food Webs
- Project: Energy Flow in Ecosystems
- Nutrient Cycles
- Water Cycle
- Lab: Building a Model Watershed
- Terrestrial Biomes
- Project: Terrestrial Biomes
- Aquatic Life Zones
- Lab: Descending into the Depths
- Freshwater Life Zones
- Lab: Freshwater Life Zones

STABILITY AND CHANGE IN ECOSYSTEMS

September 21-October 30

- Earth's Atmosphere
- Lab: Air Pressure
- Weather and Climate
- Atmospheric Circulation
- Lab: Atmospheric Circulation and Patterns
- Ecological Succession
- Ecology
- Project: Ecology
- Evolution and Biodiversity
- Lab: Species Diversity
- Project: Evolution and Biodiversity
- Threatened and Endangered Species
- Lab: Oil Spill Experiment
- Project: Threatened and Endangered Species
- Protecting Biodiversity
- Project: Protecting Biodiversity

EFFECTS OF HUMAN POPULATION GROWTH ON GLOBAL

ECOSYSTEMS

November 2-December 11

- Population Age Structure
- Project: Population Age Structure
- Effects of a Growing Human Population
- Project: Effects of a Growing Human Population
- Food Resources
- Lab: Food Resources

Environmental Science 2nd Semester

CONTENT DATE

HUMAN IMPACT ON NATURAL RESOURCES

January 4-March 5

 Pest Manag 	ement

- Project: Pest Management
- Forestry
- Project: Forestry
- Rangelands
- Project: Rangelands
- Land Conservation
- Project: Land Conservation
- Mining
- Project: Mining
- Fisheries
- Introduction to Air Pollution
- Project: Introduction to Air Pollution
- Lab: Temperature Inversion
- Acid Deposition
- Lab: Acid Rain, Part One—Analysis
- Lab: Acid Rain, Part Two—Hands-on
- Project: Acid Deposition
- Climate Change
- Lab: Greenhouse Gasses and Climate Change
- Project: Climate Change
- Reducing Air Pollution
- Lab: How Green Is Your Car?
- Project: Reducing Air Pollution
- Noise Pollution
- Project: Noise Pollution
- Water Pollution
- Lab: Solubility Earth's Water 2
- Project: Earth's Water2
- Water Use 2
- Lab: Soapy Water 2
- Project: Water Use 2
- Water Conservation 2
- Lab: Water Conservation 2
- Soil 2
- Lab: Digging for Soil 2
- Soil Conservation 2
- Lab: Erosion Virtual Experiment 2
- Project: Soil Conservation 2

ENERGY RESOURCES

- Introduction to Energy
- Energy Consumption History
- Fossil Fuels
- Project: Fossil Fuels
- Lab: The Effects of an Oil Spill
- Coal
- Project: Coal
- Synthetic Fuels
- Lab: Energy of an Alternate Fuel Source
- Introduction to Nuclear Energy
- Project: Introduction to Nuclear Energy
- Nuclear Power Plants

March 8-April 30

Environmental Science 2nd Semester (Cont.)

CONTENT DATE March 8-April 30 **ENERGY RESOURCES (Cont.)** Lab: Nuclear Chain Reaction Project: Nuclear Power Plants Nuclear Energy and the Environment Project: Nuclear Energy and the Environment Hydroelectric Power Project: Hydroelectric Power Tides and Waves Project: Tides and Waves Lab: What Can a Wave Do? Solar Energy Lab: Solar Energy Wind Power Project: Wind Power Geothermal Power Project: Geothermal Power Hydrogen Fuel Project: Hydrogen Fuel Energy Efficiency Lab: Energy Use and Your Family Project: Energy Efficiency Sewage Treatment Solid Waste Project: Solid Waste Lab: Solid Waste Hazardous Waste Project: Hazardous Waste Environmental Health Project: Environmental Health Sustainable Cities Project: Sustainable Cities **Environmental Economics** Project: Environmental Economics Lab: An Environmental Science Field Trip May 3-May 14 **CULMINATING PROJECT** May 17 - 21 **REVIEW**

FINAL EXAMS

May 24 - 26