

## Course Outline

### I. The Three Major Types of Pollution and their Implications on Nature and Society

#### MODULE 1. Land Pollution

- 1.1. What is Land Pollution?
- 1.2. Land and Soil Pollution
- 1.3. Industry's Impact on Environment
  - 1.3.1. Industrial Revolution
  - 1.3.2. Industrial Pollution
- 1.4. Plastic Crisis
  - 1.4.1. Plastic
  - 1.4.2. Plastic Pollution
  - 1.4.3. Plastic Pollution Statistical Data
  - 1.4.4. Recommendations for Plastic Crisis
- 1.5. Overall Impacts and Ramifications
  - 1.5.1. Metro Manila's Trash Problem
  - 1.5.2. Strong Law, Weak Implementation
  - 1.5.3. Philippine Waste Management

#### MODULE 2. Water Pollution

- 2.1. What is Water Pollution?
- 2.2. Causes of Water Pollution
  - 2.2.1. Domestic Sewage
  - 2.2.2. Improper Disposal of Solid and Toxic Wastes on Bodies of Water
  - 2.2.3. Oil Spills
  - 2.2.4. Ocean Mining
  - 2.2.5. Urbanization and Industrialization
  - 2.2.5. Unsustainable Agricultural and Fishery Practices  
(e.g. use of fertilizers and pesticides, dynamite fishing, etc.)
- 2.3. Effects of Water Pollution
  - 2.3.1. Depletion of Oxygen Levels on Bodies of Water
  - 2.3.2. Food Contamination and Scarcity
  - 2.3.3. Threats on Marine and Aquatic Species and Ecosystems
  - 2.3.4. Threats on Human Health
- 2.4. Global Responses and Preventive Measures on Alleviating Water Pollution
  - 2.4.1. Regulation of Chemical Fertilizer Use in Agricultural Industries
  - 2.4.2. The Three R's
  - 2.4.3. Restriction of Single-Use Plastics
  - 2.4.4. Sustainable Fishing

## **MODULE 3. Air Pollution**

- 3.1. What is Air Pollution?
- 3.2. Causes of Air Pollution
  - 3.2.1. Burning of Fossil Fuels
  - 3.2.2. Emissions from Automobiles
  - 3.2.3. Household Cleaning Products and Paint Chemicals
  - 3.2.4. Greenhouse Gas Emissions
  - 3.2.5. Urbanization and Industrialization
  - 3.2.6. Unsustainable Agricultural Practices
    - (e.g. use of pesticides and inorganic fertilizers containing Ammonia)
- 3.3. Effects of Air Pollution
  - 3.3.1. Global Warming
  - 3.3.2. Acid Rain
  - 3.3.3. Ozone Layer Depletion
  - 3.3.4. Destruction of Biodiversity and Ecosystems
  - 3.3.5. Threats on Human Health
- 3.4. Global Responses and Preventive Measures on Alleviating Air Pollution
  - 3.4.1. Regulation of Vehicular Use
  - 3.4.2. Energy Conservation
  - 3.4.3. Reforestation
  - 3.4.4. Sustainable Farming