

# Valarie Gray

## Environmental Science Course Outline

**Overview** –What is Environmental Science and What are the Issues?

Guiding Question – How does environmental science help us understand the natural world?

Review of Scientific Method and Lab Safety

### Unit One – Human Issues –

#### A. Population

Guiding Question – How does the human population affect the environment?

1. Trends in Human Population Growth
2. Predicting Population Growth – When are there 7 Billion People Here on Earth?
3. People and Their Environments

#### B. Food Production and Consumption

Guiding Question – How can we produce enough food for a rapidly growing population while sustaining our ability to produce it?

1. Food Security
2. Weather and Food Production – What is the effect of floods and droughts on the growing of crops?
3. What is the carbon footprint of a diet high in meat? What is the health impact of a diet high in meat?

## Environmental Science Syllabus

Please make note of the following syllabus and classroom rules. Knowing and understanding these procedures will help you to ensure that you are successful in Environmental Science.

### 1. Course Description

Environmental Science is a course designed to give students a basic introduction to the environment. These concepts are reinforced by appropriate laboratory activities, mathematical solutions, historical perspectives, and everyday applications. The focus of the course will be on LOCAL environmental issues such as the sale of water from Lake Erie, estrogenic compounds in the Chagrin River watershed, hydrofracing in Geauga County and population growth in Geauga County.

### 2. Course Textbook

Environmental Science By Karen Arms Publisher: Holt

### 3. Semester Topics

Introduction to Environmental Science  
Ecology  
Populations  
Water, Air, and Land  
Mineral and Energy Resource  
Our Health and Our Future

### 4. Grading Policy Grading Scale

A: 100 – 90  
B: 89 – 80  
C: 79 – 74  
D: 70 – 73  
F: 69 – 0  
Grading Categories Tests/Projects – 35%  
Labs – 25%  
Classwork/Homework/Quizzes– 25%  
Cumulative Final – 15%

### 5. Supplies to be Brought to Class Everyday

1. Three-ring Binder with paper
2. **Blue** or **Black** Pen or Pencil
3. Completed assignments, when applicable

### 6. Attendance/Make-up Work

It is your responsibility to be in class. If you are unable to attend it is **YOUR OWN** responsibility to complete your make-up

work.

A make-up notebook will be kept on the bookshelf in the front of the room that describes the classwork and assignments for each day. It will also contain any handouts given. It is your responsibility to check the make-up notebook, ask questions if you do not understand the assignment, and turn any missed assignments in on time.

You will have to get any missed lecture notes from a responsible classmate.

You will have the number of days that you were absent, with a minimum of two days, to complete make-up work. After the allotted number of days, if the work is not completed the grade is a **ZERO!** If a student is absent the day of a previously scheduled exam or project, the student will be prepared to take the test or turn in the assignment on the first day of return.