Plant and Soil Science Class Syllabus

Course Title: Introduction to Plant and Soil Science

Instructor: Ms. Audrianna Bruce
Contact Information: abruce@troyusd.org
Class Time: 8:54 AM – 9:44 AM

Course Description

Welcome to Introduction to Plant and Soil Science! This course offers a comprehensive study of plant biology, soil science, and the relationship between the two. Students will engage in hands-on activities, including working with various plants and fertilizers, to understand soil management, plant growth, and ecosystem dynamics.

Course Objectives

By the end of this course, students will:

- Understand the fundamentals of plant biology and soil science.
- Learn about soil properties, composition, and management.
- Gain practical experience with plant cultivation and the application of fertilizers.
- Develop skills in conducting scientific experiments and fieldwork.

Required Materials (Will be provided)

- Textbook: *Introduction to Plant and Soil Science*
- Notebook and pens/pencils
- Safety gloves and goggles
- Planting materials (seeds, pots, soil)

Classroom Rules

1. **Respect:** Show respect for the environment, plants, and fellow students.
2. **Safety First:** Follow all safety guidelines, especially when handling fertilizers and conducting experiments.
3. **Punctuality:** Arrive on time and be prepared for each class.
4. **Participation:** Engage actively in class discussions and hands-on activities.
5. **Cleanliness:** Keep your workspace clean and dispose of waste properly.

Warning

This course involves activities where you will handle fertilizers and various types of plants. These activities may include exposure to chemicals and biological materials. It is essential to follow all safety instructions and guidelines provided. If you have any concerns or allergies related to these materials, please discuss them with the instructor before signing this syllabus.

Semester Schedule

Week 1-2: Introduction to Plant and Soil Science

- Overview of the course
- Basic plant biology and soil science concepts

Week 3-4: Soil Properties and Management

- Study of soil composition, structure, and fertility
- Soil testing and analysis

Week 5-6: Plant Growth and Development

- Understanding plant physiology and growth stages
- Factors affecting plant health and productivity

Week 7-8: Fertilizers and Soil Amendments

- Types of fertilizers and their applications
- Safe handling and application procedures

Week 9-10: Plant Cultivation Techniques

- Techniques for planting, growing, and harvesting different types of plants
- Hands-on planting projects

Week 11-13: Practical Projects and Experiments

- Fieldwork and laboratory experiments
- Analysis of plant and soil samples

Week 14-15: Review and Final Projects

- Review of key concepts
- Presentation of final projects and reports

Week 16: Final Exam and Course Wrap-Up

- Final exam
- Course review and feedback

Grading Criteria

- **Participation and Attendance:** 20%
- **Homework and Assignments:** 25%
- **Lab Reports and Practical Work:** 30%
- **Midterm Exam:** 15%
- **Final Exam/Project:** 10%

Parent and Student Acknowledgment

By signing below, you acknowledge that you have read and understood the syllabus, including the warning about handling fertilizers and plant materials.

Parent/Guardian Signature: _____
Date: _____

Student Signature: _____
Date: _____

If you have any questions or concerns, please do not hesitate to contact me. Looking forward to an exciting and educational semester!
