
SECTION HEADING

AGRI 1103: Introduction to Soil Science

Description

Introduction to Soil Science introduces students to the origin, formation, and classification of soils. This includes the physical, chemical, and biological properties of soils, soils as a medium for plant growth, elements, water, air, organic matter, and plant and animal life in the soil.

Credits

3

Prerequisite

None

Corequisite

None

Topics to be Covered

1. The Importance of Soil
2. Soil Origin and Development
3. Physical Properties of Soil
4. Soil Water
5. Soil and Water Conservation
6. Organic Matter
7. Life in the Soil
8. Government Agencies and Programs

Learning Outcomes

1. Describe the physical and chemical composition of soil.
2. Explain the processes soil formation
3. Explain the importance of soil for life and the environment.
4. Identify types of soils
5. Classify soils based on their texture.
6. Analyze soil pH and its relationship to plant growth.
7. Analyze soil nutrients and its relationship to plant growth.
8. Explain the importance of good soil structure and its relationship to healthy soils.
9. Evaluate best management practices for soil and water conservation.
10. Describe the forms of soil water and its relationship to plant growth.

Credit Details

Lecture: 2

Lab: 1

OJT: 0

MnTC Goal Area(s): None