SOIL-SOIL (SOIL)

SOIL 2110. Introduction to Soil Science 3 Credits (3)

An overview of fundamental concepts in soil science and soils as a natural resource. Students will be introduced to the physical, chemical, and biological properties as it relates to soil management in environmental science, conservation, and agronomy. May be repeated up to 3 credits.

Prerequisite: (CHEM 1120G and MATH 1215 or higher) or CHEM 1215G. **Learning Outcomes**

- 1. Understand and use the technical terminology associated with the use and management of soils.
- Understand the classification of soils and the processes leading to their formation.
- 3. Identify key physical, chemical, and biological properties of soils.
- Explain the impact of land use and management decisions as it relates to soil degradation and environmental problems.

SOIL 2110L. Introduction to Soil Science Laboratory

1 Credit (1)

Morphological, chemical, physical and biological properties of soil in the laboratory and field.

Corequisite(s): SOIL 2110.

Learning Outcomes

- 1. Learn techniques for sampling and characterizing soils in the region.
- Understand how soils are formed and the processes that occur within the soil profile.
- Gain fundamental knowledge on soil physical, chemical, and biological properties and how each can influence the overall function of a particular soil.
- 4. Develop critical thinking and analytical skills within laboratory and field settings.
- 5. Encourage collaboration, inclusiveness and critical thinking.

SOIL 2996. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

Learning Outcomes

1. Varies