

# COURSES

## FOREST MANAGEMENT

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**FOR-121      Dendrology      Lec 2   Lab 6   Clinic 0   Credit 4**

This course covers field identification, classifications, uses, and nomenclature of trees. Emphasis is placed on silvics, characteristics, commercial importance, and wildlife benefits of trees. Upon completion, students should be able to identify trees and understand their uses.

**Co-Requisites:** None

**Pre-Requisites:** None

**FOR-123      Forest Botany      Lec 2   Lab 3   Clinic 0   Credit 3**

This course introduces the structures and processes of forest plants. Emphasis is placed on dissection and direct examination of roots, shoots, and leaves. Upon completion, students should be able to identify plant parts and understand their functions.

**Co-Requisites:** None

**Pre-Requisites:** None

**FOR-131      Forest Measurements      Lec 2   Lab 3   Clinic 0   Credit 3**

This course introduces basic land and tree measurement equipment and mapping techniques. Emphasis is placed on developing skills for land, tree, and log measurements. Upon completion, students should be able to accurately use land and tree measurement equipment.

**Co-Requisites:** None

**Pre-Requisites:** None

**FOR-171      Introduction to Forest Resources      Lec 3   Lab 0   Clinic 0   Credit 3**

This course introduces the relationships within the forest and its various uses. Emphasis is placed on forest history, ecology, protection, management, policies, and practices. Upon completion, students should be able to discuss the relationship of the forest and its use to the welfare of mankind.

**Co-Requisites:** None

**Pre-Requisites:** None

**FOR-173      Soils & Hydrology      Lec 2   Lab 3   Clinic 0   Credit 3**

This course covers concepts of soils and water including physical and chemical soil properties. Emphasis is placed on soil sampling, identification, plant-site relationships, water movement, and properties. Upon completion, students should be able to relate soil and water characteristics to forest growth and water quality.

**Co-Requisites:** None

**Pre-Requisites:** None

**FOR-175      Wildlife and Environmental Studies      Lec 2   Lab 3   Clinic 0   Credit 3**

This course provides an overview of wildlife and environmental issues pertaining to the ecological, social, and economic aspects of forestry. Topics include wildlife management, wetland delineation, endangered species detection, protection, landowner rights, liabilities, regulations, and law. Upon completion, students should be able to demonstrate a knowledge of how wildlife and environmental issues affect forestry in the United States.

**Co-Requisites:** None

**Pre-Requisites:** None

**FOR-212      Forest Surveying & Aerial Interpretation      Lec 2   Lab 3   Clinic 0   Credit 3**

This course covers the basic concepts of plane surveying and aerial photo interpretation. Emphasis is placed on boundary location and acreage determination both on the ground and through aerial photographs. Upon completion, students should be able to confidently use basic surveying equipment and aerial photographs for forest land measurements.

**Co-Requisites:** FOR-215

**Pre-Requisites:** FOR-131

**FOR-215      Introduction to GIS/GPS      Lec 1   Lab 4   Clinic 0   Credit 3**

This course introduces geographic information systems and global positioning devices. Emphasis is placed on the use of existing hardware and software to create and update computer generated maps. Upon completion, students should be able to understand the uses and limitations of GIS and GPS devices in forestry applications.

