COURSES

FOREST MANAGEMENT

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.

Co-Requisites: None Pre-Requisites: None

FOR-225 Silvics & Silviculture

Lec 3 Lab 3 Clinic 0 Credit 4

This course covers the establishment, development, care, and harvesting of forest stands. Emphasis is placed on the application of various techniques used to control stand establishment, composition, and growth. Upon completion, students should be able to understand and apply appropriate forest stand improvement techniques.

Co-Requisites: None Pre-Requisites: FOR-121

FOR-232 Forest Mensuration

Lec 2 Lab 6 Clinic 0 Credit 4

This course provides applications of previously covered measurement techniques to the volume estimation and valuation of forest stands. Emphasis is placed on applications of various timber cruising methods. Upon completion, students should be able to determine the size, volume, and quality of forest stands.

Co-Requisites: None Pre-Requisites: FOR-131

FOR-240 Forest Protection

Lec 2 Lab 3 Clinic 0 Credit 3

This course covers the forces that affect the health and vigor of the nation's forests. Emphasis is placed on wildfire management, prescribed burning, entomology, pathology, and forest health. Upon completion, students should be able to identify the major pests which affect the forest and understand and recommend control methods.

Co-Requisites: None Pre-Requisites: None

FOR-241 Forest Fire Management

Lec 2 Lab 3 Clinic 0 Credit 3

This course covers the nature of wildfire and the uses of prescribed burning in a forest or urban interface setting. Topics include prevention, detection, suppression, causes, and the ecological and economic effects of fire. Upon completion, students should be able to use fire as a management tool and participate in the suppression of wildfire.

Co-Requisites: None Pre-Requisites: None

FOR-271 Forest Management

Lec 2 Lab 3 Clinic 0 Credit 3

This course is designed as a capstone course for forest management majors to apply skills previously learned. Emphasis is placed on recommendations forest managers make to provide services on forest lands to meet the owners' objectives. Upon completion, students should be able to develop forest management plans for various forest ownerships. This is the capstone course for the Forest Management Technology A.A.S. degree program.

Co-Requisites: None

Pre-Requisites: All: FOR-225 and FOR-232 ENG-111

FOR-285 Logging & Marketing

Lec 2 Lab 3 Clinic 0 Credit 3

This course covers logging systems commonly used in the Southeast. Emphasis is placed on roading, matching equipment to job requirements, safety, legal requirements, and primary manufacturing of forest products. Upon completion, students should be able to supervise a logging operation.

Co-Requisites: None Pre-Requisites: None