

Forestry and Wildlife Management, Semester B

Credits: 0.5

Course Overview and Goals

Forestry and Wildlife Management, Semester B, is the second part of a two-semester course. In this course, you will identify forest soil types, forest harvesting techniques, and wood types. You will learn about wildlife population dynamics and wildlife management practices. You will create a forest management plan and a forestry stewardship plan. You will identify best practices and examine how new technologies such as the Global Positioning System (GPS) and geographic information systems (GIS) work and their uses in forestry, wildlife, and natural resources management. You will examine the effects of recreational activities on the environment. You will also recommend solutions to different conservation and environmental issues. Finally, you will examine laws, policies, and regulations related to forestry and wildlife management.

This course consists of 12 lessons organized into three units, three Unit Activities, and three Discussions. Additionally, there is one Course Activity and one Course Project. Each lesson contains one or more Lesson Activities. You will grade your work in the Lesson Activities by comparing it to sample responses. You will submit the Unit Activities, Course Activity, and Course Project to your teacher for grading.

By the end of this course, you will be able to do the following:

- ❖ Analyze forest soil types, forest harvesting techniques, and wood types.
- ❖ Create forest management plans.
- ❖ Evaluate the methods of measuring trees and the importance of trees to the environment.
- ❖ Evaluate the best management and conservation practices in forestry and wildlife.
- ❖ Examine how new and emerging technologies influence forestry, wildlife, and natural resources.
- ❖ Examine the influence of laws, policies, and regulations related to forestry, wildlife, and natural resources.

UNIT 1: FOREST SOIL, BIOMETRICS, AND HARVESTING (DAYS 1 – 26)

In this unit, you will identify soil types and explain the importance of soil management and conservation. You will create a soil management plan. You will define forest biometrics. You will calculate tree volume and estimate timber growth and yield. You will analyze different types of forests and the importance of trees to the environment. You will identify forest harvesting tools and techniques. You will also outline the steps in the lumber manufacturing process.

Lesson	Lesson Objective
Syllabus and Student Orientation	Review the Student Orientation and Course Syllabus at the beginning of this course.
Forest Soil	Analyze soil types and create a soil management plan.
Forest Biometrics	Evaluate the methods of measuring trees and their yield in a forest.
Forest Classifications	Analyze different types of forests and the importance of trees to the environment.
Forest Harvesting	Examine forest harvesting techniques, the lumber manufacturing process, and wood characteristics.

UNIT 2: MANAGEMENT PRACTICES AND INFLUENCE OF TECHNOLOGY (DAYS 27 – 57)

In this unit, you will examine the factors that affect wildlife population dynamics. You will create a forest management plan and a forestry stewardship plan. You will evaluate the best management and conservation practices. You will examine how the Global Positioning System (GPS), geographic information systems (GIS), and small unmanned aircraft systems (sUAS) work and their uses in forestry, wildlife, and natural resources management. Finally, you will analyze the effects of recreational activities on the environment and the ways to enhance a recreation area.

Lesson	Lesson Objective
Wildlife Management	Analyze factors affecting wildlife population dynamics and various wildlife management practices.
Forestry Management Plans	Create a forest management plan and a forestry stewardship plan.
Best Management Practices	Evaluate the best management and conservation practices and recommend improvements in any local practice.
Influence of Technology	Examine how the Global Positioning System (GPS) and geographic information systems (GIS) work and their uses in forestry, wildlife, and natural resources management.
Recreation Area Enhancement	Analyze the effects of recreational activities on the environment and the ways to enhance a recreation area.

UNIT 3: CONSERVATION ISSUES AND LAWS (DAYS 58 – 90)

In this unit, you will recommend solutions to different conservation and environmental issues. You will compare case studies of both successful and failed legislation. You will identify situations that violate management regulations. You will also examine laws, policies, and regulations related to forestry, wildlife, and natural resources and their effects.

Lesson	Lesson Objective
Conservation Issues	Recommend solutions to different conservation and environmental issues.
Legal Issues	Examine successful and failed legislation and challenges in game management regulation.
Laws and Regulations	Examine laws, policies, and regulations related to forestry, wildlife, and natural resources and their effects.
Course Activity	Certification and Conservation Stories
Course Project	Forest Habitat Management