

Course Objectives/Course Outline
Spokane Community College

Course Title: Forest Harvesting and Products

Prefix and Course Number: NATRS 203

Course Learning Outcomes:

By the end of this course, a student should be able to:

- identify road location and design
- identify timber harvesting operations and logging systems
- understand safety issues, environmental laws, economics, and contract inspections

Course Outline:

- I. Introduction
 - A. Course expectations and objectives
 - B. What is timber harvesting? And how it relates to silviculture
- II. Roads
 - A. Road Location
 - B. Types of roads
 - C. Basic Design Parameters
 - D. Limitations
- III. Timber Harvesting and Logging Systems
 - A. Felling, Bucking, and Processing
 1. Definitions
 2. Process of each step
 3. Safety considerations
 4. Problems and Quality Control
 - B. Skidding
 1. Definition
 2. Types of skidders
 3. Limitations of each
 4. Safety considerations
 - C. Cable Yarding & Helicopter Logging
 1. Types of yarders: Jammer, Highlead, Skyline, etc.
 2. Limitations
 3. Profiles
 4. Safety
 5. Helicopters
 - D. Loading and Transportation
 1. Equipment
 2. Limitations
 3. Safety
- IV. Forest Practice Act (environmental Law):
 - A. How FPA influence on Timber Harvesting
 - B. RMZ, Wetlands, etc.
- V. Economics:
 - A. Economic Influences on Timber Harvesting
 - B. Preparing Timber Sale Bid
 - C. Bid Procedures
- VI. Contract Inspection

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