

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: APPLIED FOREST MANAGEMENT

CODE NO.: FOR370-4 SEMESTER: 6

PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

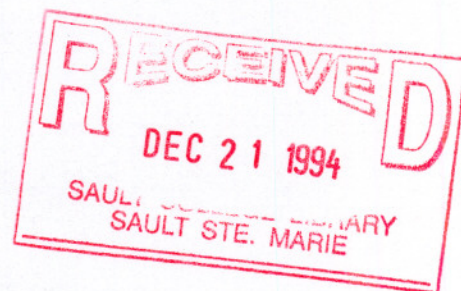
AUTHORS: BOB CURRELL

DATE: DECEMBER 1994 PREVIOUS OUTLINE DATED: DEC. 1993

APPROVED:

Bob Currell
DEAN, SCHOOL OF SCIENCES &
NATURAL RESOURCES

94-12-16
DATE



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TOTAL CREDIT HOURS: 64

PREREQUISITE(S):

I. PHILOSOPHY/GOALS:

This course is designed to prepare students for participation in the silvicultural management of Ontario's forests.

Combining field trips, lectures and lab exercises, the course describes methods used to classify, regenerate and tend forest lands, using ecosystem and sustainable forestry practices.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will be able to:

1. Classify forest sites using Forest Ecosystem Classification systems.
2. Describe modified harvesting systems which may be used in the Boreal forest in order to protect advance growth and promote natural regeneration.
3. Describe techniques used for regenerating and managing of the major Boreal timber species and associated ecosystems.
4. Give a detailed explanation of the silvicultural techniques available for Red and White Pine management.
5. Describe the vegetation management alternatives to herbicide spraying initiated in Ontario as part of the Sustainable Forestry Program.
6. Design silvicultural crop plans for several important Ontario timber species.
7. Describe the Ontario Growth and Yield Program.

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III. TOPICS TO BE COVERED:

1. Site Classification

- a review of soil and vegetation features of importance to field site classification.
- Forest Ecosystem Classification Systems
 - Northwest to Northcentral Ontario
 - Northern region of Ontario
 - Algonquin Pine Forest

2. Ontario's Growth and Yield Program

3. Introduction to Crop Planning

TEST #1

4. Natural Regeneration Systems

- careful logging techniques

5. Pine Management

- Jack Pine, White Pine, Red Pine

TEST #2

6. Vegetation Management

- integrated pest management
- herbicide use
- Vmap

7. Mixedwood Management

TEST #3

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IV. EVALUATION METHODS:

Tests 50%

- tests following topics 2, 5 and 7

Assignments 40%

- including
 - soil descriptions
 - site classification exercises
 - crop planning exercise
 - careful logging layout

Quizzes 10%

- following guest lectures
- to evaluate reading assignments

Marking Scheme:

A+ = 91-100% A = 81-90% B = 71-80% C = 61-70% R = <60%

V. REQUIRED STUDENT RESOURCES:

Field Manual for Describing Soils

Silviculture Study Guide

VI. SPECIAL NOTES:

Students with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.