

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

COURSE OUTLINE

COURSE TITLE: APPLIED FOREST MANAGEMENT

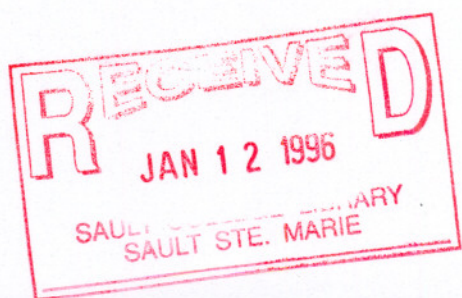
CODE NO.: FOR370-4 SEMESTER: 6

PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

AUTHORS: BOB CURRELL

DATE: JANUARY 1996 PREVIOUS OUTLINE DATED: JANUARY 1995

APPROVED: *A. Cook* January 11, 1996
DEAN, SCHOOL OF SCIENCES & NATURAL RESOURCES DATE



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TOTAL CREDIT HOURS: 64

PREREQUISITE(S):

I. PHILOSOPHY/GOALS:

Combining field trips, lectures and student projects, the course provides the knowledge a resource technician needs in order to effectively oversee the management of both the Great Lakes - St. Lawrence and Boreal forest regions of Ontario while minimizing the associated impacts on non-timber, forest values.

This course describes the planning required to legally carry out forest management in Ontario's crown forests.

II. STUDENT PERFORMANCE OBJECTIVES:

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

1. Summarize how Forest Management Planning is carried out in Ontario and describe the contents of a Forest Management Plan.
2. Prepare values maps for identified portions of the Crown Forests of Ontario and write Area of Concern (AOC) prescriptions to protect forest values.
3. Describe the Ontario Growth and Yield Program and understand how to establish and measure growth and yield permanent sample plots.
4. Identify potential impacts of forest management on terrestrial and aquatic ecosystems and be able to prescribe appropriate management alternatives to mitigate negative effects.
5. Describe the selection system of tolerant hardwood management and understand how to carry out improvement cutting while protecting non-timber forest values.
6. Evaluate the grade of tolerant hardwood trees and identify major defects on these trees.
7. Prepare crop plans for the silvicultural management of any forested area in Ontario.
8. Explain how to effectively and sustainably control non crop tree species of forest weeds.

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III. TOPICS TO BE COVERED:

1. Forest Management Planning
 - Ontario's Current Forest Management Planning Process
 - The Crown Forest Sustainability Act
 - Values Mapping and AOC Prescription Setting
2. Ontario's Growth and Yield Program
3. Appropriate Forest Management Strategies to Protect Forest Values
 - impacts of harvesting on terrestrial and aquatic ecosystems
 - wildlife and forest management
 - alternate silvicultural systems

Test 1

4. Tolerant Hardwood Management
 - management systems
 - Selection management
 - defect identification
 - protecting non-timber values
 - tree marking and improvement cutting

Test 2

5. Crop Planning
6. Vegetation Management
 - herbicides
 - clearing saws
 - Vegetation Management Alternatives (Vmap)

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IV. EVALUATION METHODS:

Tests 50%

- tests following topics 3, 4 and 6

Assignments 40%

- including:
 - Values mapping and AOC prescription setting
 - Tolerant hardwood marking
 - Crop Planning

Quizzes 10%

- following guest lectures

Marking Scheme:

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

V. REQUIRED STUDENT RESOURCES:

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.