

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON



COURSE OUTLINE

COURSE TITLE: APPLIED FOREST MANAGEMENT

CODE NO.: FOR 370 SEMESTER: SIX

PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

AUTHOR: BOB CURRELL

DATE: JANUARY 1999 PREVIOUS OUTLINE DATED: JANUARY 1997

APPROVED:  **DEAN**

 **DATE**

TOTAL CREDITS: 4

PREREQUISITE(S):

LENGTH OF COURSE: 16 WEEKS

TOTAL CREDIT HOURS: 64

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For additional information, please contact Joe Fruchter, School of Natural Resources, (705) 759-2554, Ext. 688

I. COURSE DESCRIPTION:

Combining lectures, field trips and student exercises this course provides the knowledge a Resource Technologist needs to plan forest management on Crown forest lands in Ontario. The course also introduces the student to Tolerant Hardwood management and provides training important to the practice of hardwood treemarking.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course the student will demonstrate the ability to:

- 1) Explain how Forest Management Planning is carried out in Ontario

Potential Elements of the Performance:

- summarize the current responsibilities for forest management
- describe recent initiatives which have contributed to Ontario forest management
- summarize the responsibilities and rights conveyed by Sustainable Forest Licences
- explain the process to prepare a Forest Management Plan

This learning outcome will constitute 15% of the course's grade.

- 2) Plan for the protection of non-timber forest values

Potential Elements of the Performance

- describe the importance of terrestrial and aquatic ecosystem interactions
- describe how non timber values are identified and reported in management plans
- prepare Values Maps as part of Forest Management Plans
- produce Area of Concern prescriptions for identified forest values

This learning outcome will constitute 25% of the course's grade.

- 3) Indicate how the Provincial Growth and Yield Program is being used to inventory the growth of Ontario's forests

Potential Elements of the Performance

- describe the network of plots being established and measured throughout Ontario forests
- sketch the layout of a growth and yield plot
- measure, with acceptable accuracy, all elements of a permanent Growth and Yield sample plot
- correctly record Growth and Yield measurement results on standard tally sheets

This learning outcome will constitute 15% of the course's grade.

- 4) Prescribe acceptable silvicultural systems for the management of Tolerant Hardwoods

Potential Elements of the Performance

- describe the silvicultural systems available to manage hardwoods
- evaluate forest stands and choose the appropriate silvicultural harvesting system to use in their management

This learning outcome will constitute 20% of the course's grade.

- 5) Illustrate the ability to correctly mark a block of tolerant hardwoods following a prescription for Improvement Cutting

Potential Elements of the Performance

- evaluate the grade of Tolerant Hardwood trees and identify defects on these trees
- identify wildlife habitat trees
- mark a block of hardwoods leaving an acceptable basal area of trees per hectare while removing defective trees and leaving predetermined 'critical' trees

This learning outcome will constitute 25% of the course's grade.

III. TOPICS:

1. Forest Management Planning
 - current status of forest management in Ontario
 - Sustainable Forest Licences
 - Crown Forest Sustainability Act
 - preparing Forest Management Plans
2. Protecting Forest Values
 - terrestrial/aquatic ecosystem interactions
 - Ecological Land Classification
 - Area of Concern planning
3. Ontario's Growth and Yield program

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4. Tolerant hardwood management
 - management systems
 - selection management
 - defect identification and tree classification
 - wildlife values to be protected in hardwood forests
5. Tree Marking
 - field trips and practice marking

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Hard hats, winter boots, snowshoes, scale ruler

V. EVALUATION PROCESS/GRADING SYSTEM

Tests(2) 50% ; following topic 3 and topic 5
 Assignments 40% Quizzes 10%

The following semester grades will be assigned to students in post secondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	3.75
B	70 – 79%	3.00
C	60 – 69%	2.00
R (Repeat)	59% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
X	A temporary grade – limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see Policies & Procedures Manual - Deferred Grades and Make-up).	
NR	Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has been impossible for the faculty member to report grades.	

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CODE NO.**VI. SPECIAL NOTES:**

- Special Needs
If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717, 491 so that support services can be arranged for you.
- Retention of Course Outlines
It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.
- Course Modification
The instructor reserves the right to modify the course as deemed necessary to meet the needs of students.
- Disclaimer for Meeting the Needs of the Learners
- Substitute Course Information is available at the Registrar's Office.
- Any Other Special Notes appropriate to your course.

VII. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor. Credit for prior learning will be given upon successful completion of the following: