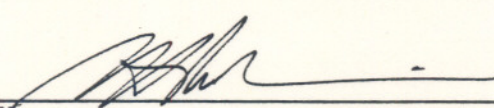


SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY  
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: INTEGRATED RESOURCE MANAGEMENT  
CODE NO.: FOR 220 SEMESTER: IV  
PROGRAM: FORESTRY TECHNICIAN  
AUTHOR: B. CURRELL  
DATE: JANUARY 1991 PREVIOUS OUTLINE DATED: JANUARY 1990

APPROVED:  DEAN Jan 9/91 DATE

INTEGRATED RESOURCE MGMT.

FOR 220

COURSE NAME

COURSE NUMBER

TOTAL CREDIT HOURS: 4

PREREQUISITE(S): NONE

**I. PHILOSOPHY/GOALS:**

This course is designed to give the student an understanding of the methods of integrating management of all natural resources found on forest lands and, in particular, on Ontario's crown lands.

As public environmental awareness and concern has increased, forest land managers are realizing that public involvement in resource planning decisions on crown land is essential. While timber management may often be the most economically important objective on these forest lands, it is now recognized that other values must be protected and enhanced even if that means less harvesting.

An explanation of the concept of Integrated Resource Management will be provided in the course and measures designed to maintain or improve fish, wildlife, timber and recreational values will be described.

**II. STUDENT PERFORMANCE OBJECTIVES:**

Upon successful completion of this course the student will:

1. Understand the principles and practice of integrated resource management, whereby forest lands are managed in a coordinated way to provide timber, fish and wildlife habitat, outdoor recreational opportunities and other benefits to the people of Ontario in a way that is sustainable over a long period of time.
2. Know how to modify timber management operations to protect and conserve other resource values.
3. Be able to describe Ontario's system of Forest Land Use Planning from a regional, district and local perspective.
4. Understand how relatively small-sized woodlots may be managed to provide timber, wildlife and recreational benefits.
5. Have an understanding of global environmental concerns and the concept of sustainable development.

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**III. TOPICS TO BE COVERED:**

**Unit I**

Introduction to Integrated Resource Management

- values provided by forests
- potential conflict between uses
- government policy direction
- ecosystem or landscape management

Forest Ecosystem Classification (N.W. Ontario)

- evaluating the potential of forest land for various uses

Protection of Fish Habitat

Integrating Timber and Wildlife Values

Protection of Tourism Values

**Unit Test 1**

**Unit 2**

The Value of Parks, Wilderness and Old-growth Forests

Introduction to Land Use Planning

- Strategic Land Use Plans (SLUPs)
- District Land Use Guidelines (DLUGs)
- Resource Management Plans

Compliance and Effectiveness Monitoring of Work Permits

Environmental Assessment of Timber Management in Ontario

**Unit Test 2**

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**III. TOPICS TO BE COVERED: CONTINUED**

Unit 3

Woodlot Management

- Woodlot improvement for timber production
- Maple syrup management
- Woodlot management for wildlife habitat provision

Sustainable Development

- global environmental concerns
- Ontario environmental concerns

Conflict Resolution

- Temagami: A Case Study

Unit Test 3

**IV. METHOD OF EVALUATION:**

50% Unit Tests

- 3 tests will be written, one after each unit

30% Assignment including:

- a summary of the meaning of IRM
- FEC land classifications
- moose habitat provision mapping exercise
- protection of tourism values exercise
- district land use guideline summary

10% Essay

10% Attendance, Quizzes

**V. REQUIRED STUDENT RESOURCES:**

Timber Management Guidelines for the Protection of Tourism Values

Timber Management Guidelines for the Provision of Moose Habitat

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**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.

A day long field trip to view maple syrup making operations will occur in late March. Appropriate safety equipment (hard hats, boots) must be worn.

