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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: INTRODUCTION TO FOREST MANAGEMENT

CODE NO.: FOR 230-4 SEMESTER: 4

PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

AUTHOR: J. CLEMENT/B. CURRELL/E. GOERTZ

DATE: DEC. 1992 PREVIOUS OUTLINE DATED: N/A

APPROVED:


DEAN, SCHOOL OF SCIENCES &
NATURAL RESOURCES


DATE

INTRODUCTION TO FOREST
MANAGEMENT

FOR 230-4

COURSE NAME

COURSE NUMBER

TOTAL CREDIT HOURS: 64

PREREQUISITE(S): NONE

I. PHILOSOPHY/GOALS:

This course will serve as an introduction to those students interested in the field of forest management. The topics are designed to stimulate interest in managing the forest in an integrated manner.

II. STUDENT PERFORMANCE OBJECTIVES:

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

1. Be able to describe the management system alternatives available when managing tolerant hardwoods.
2. Be able to grade trees in a northern hardwood stand.
3. Be able to identify and protect wildlife values in a forest which is also being managed to provide timber resources.
4. Be able to conduct a forest inventory and estimate the precision of the sampling methodology.
5. Be able to prescribe treatments as they relate to inventory results.

III. TOPICS TO BE COVERED:

Unit 1 - Tolerant Hardwood Management

- Topic 1 - introduction to course
- introduction to tolerant hardwood management

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III. TOPICS TO BE COVERED (Cont'd)

- Topic 2 - Grading
- hardwood grading
- theory 1 hour
- grading exercise in woodlot
(establish plots, grade trees within)
- Topic 3 - The selection system of hardwood management
- theory
- improvement cutting, basal area reduction, improving
diameter distribution
- practice
- selective cutting in S. Ontario, Sault Ste. Marie
area
- Topic 4 - Identifying and Protecting Wildlife Values While
Planning and Carrying Out Timber Management Operations

Unit 2 - Forest Inventory

- Topic 5 - Design of sample surveys for inventory work and a case
study.
- Topic 6 - Applicable statistics related to forestry related
sampling.
- Topic 7 - Field sampling and outdoor inventory work.

Unit 3 - Silvicultural Prescriptions

- Topic 8 - Developing integrated silvicultural prescriptions based
on cruise data.
- Topic 9 - Marking trees for harvest based on the integrated
silvicultural prescriptions.
- Topic 10 - Cruise marked stems and compile volume by species.

IV. LEARNING ACTIVITIES:



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V. EVALUATION METHODS:

Unit Tests (3) - 70%

Assignments and Quizzes - 30%

- i) Tolerant Hardwood Silvics Quiz
- ii) Stand Analysis
- iii) Unit 1 writing assignment
- iv) Statistical analysis assignment
- v) Outdoor tree marking assignment

VI. REQUIRED STUDENT RESOURCES:

Suitable outdoor clothing for winter.
Snowshoes
Compass
Hardhat with liner

No formal text required.

**VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY
BOOK SECTION:**

VIII. 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.

