

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

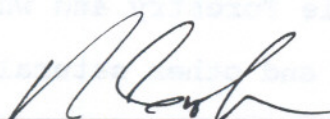
COURSE TITLE: INTRODUCTION TO NATURAL RESOURCES

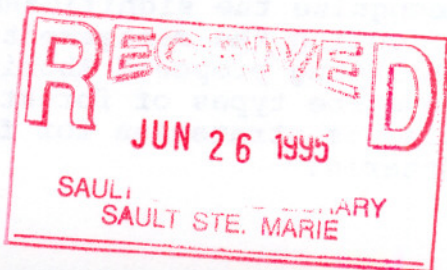
CODE NO.: FOR120-2 and FOR101-2 **SEMESTER:** I

PROGRAM: ABORIGINAL RESOURCE TECHNICIAN PROGRAM (FOR120-2)
FORESTRY, FISH & WILDLIFE,
PARKS & OUTDOOR RECREATION,
RENEWABLE RESOURCES (FOR101-2)

AUTHOR: HAROLD COOPER, WARREN ROBERTSON

DATE: MAY 1995 **PREVIOUS OUTLINE DATED:** MAY 1993

APPROVED:  95-06-19
DEAN, SCHOOL OF SCIENCES & NATURAL RESOURCES DATE



**INTRODUCTION TO NATURAL
RESOURCES**

FOR120-2 and FOR101-2

COURSE NAME

COURSE NUMBER

TOTAL CREDIT HOURS: 32

PREREQUISITE(S):

I. PHILOSOPHY/GOALS:

This course provides the new student with an overview of the extent, use and value of forests and other natural resources in Canada and more specifically Ontario. Included are forest and climatic regions in Ontario with their specific management and harvesting requirements. The land tenure system in Ontario, emphasizing Aboriginal lands, is studied in relation to the ownership, management and use of forest wildlife and fisheries resources. Pertinent legislation affecting activities in wildlands is included. This course also provides the student with a brief workshop on study skills methods for college and an overview of the various natural resource programs and advantages/limitations of each offered by the College.

II. STUDENT PERFORMANCE OBJECTIVES:

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

1. Apply appropriate study methods required for success in post-secondary Natural Resource program.
2. Reflect improvement in ability to succeed in the program.
3. Describe potential career opportunities in Natural Resources.
4. Describe Ontario's forests in terms of area, species composition and uses.
5. Interpret Ontario forest stand maps.
6. Describe the practice of Sustainable Forestry and wholistic forestry in the Ontario context.
7. Describe the importance of forests and other natural resources to Canada and Ontario.
8. Demonstrate an appreciation of the present value and production of natural resources from aboriginal controlled lands.
9. Demonstrate an understanding of Aboriginal peoples vs. federal and provincial government control of natural resources.
10. Describe using charts Natural Resources Management organizational structure in Ontario and Canada.
11. Recognize the significance of important Ontario legislation affecting the management of Natural Resources in the Province, including proposed Aboriginal legislation for natural resources.
12. Describe types of forest recreational land use.
13. Discuss strategies for fisheries and wildlife management in Ontario.

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III. TOPICS TO BE COVERED:

Learning Resources

- | | |
|--|--|
| Unit 1 - <u>Natural Resource Technicians in the 1990's</u> | 1 week |
| - Career opportunities and role outside the college | -The State of Canada's Forests |
| - Expectation for technicians | -Careers video |
| - while enrolled in the Sault College program | -Study Guide |
| - in the workplace | |
| - Aboriginal Forestry Training in Ontario and Canada | -Aboriginal Forestry Training excerpts |
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| Unit 2 - <u>Study Skills</u> | 1 week |
| - Planning for survival at Sault College | -Study Skills videos & manual |
| - How to manage time, take notes, and study for examinations | |
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| Unit 3 - <u>Forest Regions and Climatic Regions of Canada</u> | 2 weeks |
| - Types and abundance of each forest type in Canada | -Study Guide |
| - Tree species of importance in Ontario with emphasis on Northern Ontario | |
| - Ecozones | |
| - Wildlife Life Zones | |
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| Unit 4 - <u>"Forestry" in the past and "New Forestry"</u> | 3 weeks |
| - Extent of forest resources in Canada and the World | -Study Guide |
| - Historical exploitative forestry versus sustainable forestry | -Readings as assigned |
| - Wholistic forestry, integrated use and other management trends | |
| - Forest uses and values | |
| - Relative importance of the forest industry and other resource values | |
| - Value and production of other resources e.g. wild rice, recreation, wildlife | |

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**III. TOPICS TO BE COVERED:
Learning Resources**

**Unit 5 - The Stewardship of Forest
Resources**

PART A

- Federal Forestry Responsibilities .5 weeks
- Organizational structure of Forestry Canada -The State of Canada's Forests
- Programs to enhance resource management -Study Guide
- Aboriginal land tenure and agreements -Aboriginal Forestry Summary
- Examples of legislation affecting natural resources e.g. The Green Plan, WAPPA

PART B

- Provincial Forestry Responsibilities .5 weeks
- Organizational structure and responsibility of MNR -Study Guide
- Program to enhance resource management.

Unit 6 - Describing the Forest

- Forest Management units and townships -Study Guide
- Forest resource inventories
- Forest stands and stand maps

**Unit 7 - Ontario Legislation Affecting
Management of Forest Resources 2 weeks**

- Crown Forest Sustainability Act -Appropriate Acts
- The Trees Act, The Woodlands Improvement Act, the Forestry Act -Study Guide
- Examples of other legislation
- Timber harvesting licences
- Forest Management Agreements and Orders-in-Council
- First Nations Forest Resource Management Act -Proposed First Nations Forest Resources Mgmt. Act

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III. TOPICS TO BE COVERED:

Learning Resources

Unit 8 - Recreation and Land Management

2 weeks

- Forest-based recreational land uses
- Wilderness areas
- Provincial Parks, Conservation Authorities, and National Parks
- Aboriginal Land use values

-Study Guide

Unit 9 - Fisheries and Wildlife Management

3 weeks

- Wildlife strategy for Ontario
- Relationship of Wildlife to forest use
- Basic concepts of Fisheries and Wildlife management
- Pertinence of Sparrow Case to Fish and Wildlife management
- Aboriginal Co-management Agreements

**-Study Guide
-A Wildlife Strategy for Ontario**

IV. EVALUATION METHODS:

Students will be evaluated on the following:

3 term test @ 30% each = 90%
2 Assignments @ 5% each = 10%
100%

Grading

A+ = 90% and over
A = 80 - 89%
B = 70 - 79%
C = 60 - 69%

Students who do poorly in only one term test may have an opportunity to rewrite that term test at the instructor's discretion, providing that attendance and participation are satisfactory.

V. REQUIRED STUDENT RESOURCES:

Study Guide for "Introduction to Natural Resources"

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

A book list with readings will be given to the students at the beginning of the semester.

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VII. 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.

Wildlife and Wildlife Management

- Wildlife strategy for Ontario
- Relationship of Wildlife to Forest use
- Basic concepts of Planning and Wildlife management
- Persistence of Sparrow Hawk to Fish and Wildlife management
- Aboriginal Co-management

IV. EVALUATION METHODS:

Students will be evaluated on the following:

- 3 exams each \$ 30% each = 90%
- 1 Assignment \$ 10% each = 10%

Grading

- A - 80% and over
- B - 70 - 79%
- C - 60 - 69%

Students who do poorly in only one term may have an opportunity to rewrite that term test at the instructor's discretion, providing that attendance and participation are satisfactory.

V. REQUIRED STUDENT RESOURCES:

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