

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: UPLAND GAME MANAGEMENT

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CODE NO.: FOR337-3

SEMESTER: VI

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PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

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AUTHOR: HAROLD COOPER

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DATE: FEBRUARY 1996

PREVIOUS OUTLINE DATED:

NEW

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APPROVED:

  
DEAN

FEB. 14, 1996  
DATE

UPLAND GAME MANAGEMENT

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TOTAL CREDITS: 48

PREREQUISITE(S):

**I. PHILOSOPHY/GOALS:**

An advanced level course that will provide knowledge about the biology, life history and management of big game species, small game birds and mammals, endangered species and urban wildlife. Management techniques such as habitat enhancement, predator control, and harvest manipulation will be applied to upland species.

**II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):**

Upon successful completion of this course the student will:

- 1) Apply wildlife management principles and biological/ecological knowledge of wildlife species to the development of a comprehensive wildlife management plan.
- 2) Discuss exploitation theory and practices as applied to hunted or trapped species of wildlife.
- 3) Compare ecological requirements, limiting factors and sustainable management for:
  - big game species of wildlife
  - predators and nuisance spp.
  - small game species of wildlife
  - endangered species
  - urban wildlife
- 4) Identify and diagnose major parasite and diseases of wildlife.
- 5) Develop an entrepreneurial private enterprise plan suitable for a woodlot owner in Ontario.

**III. TOPICS TO BE COVERED:**

**Unit 1: Review of Wildlife Management Principles**

- \* Principles and problems in wildlife management
- \* Basic approaches to wildlife management
- \* Writing a wildlife management plan

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**Unit 2: Harvest manipulation of Upland Game Species**

- \* Carrying Capacity and optimum yield of populations
- \* Regulating harvest
- \* Harvest strategies for specific game species

**Unit 3: Habitat Enhancement**

- \* Habitat requirements of selected species
- \* General methods of habitat enhancement
- \* Wildlife and forestry practices

**Unit 4: Predator and nuisance species management**

- \* Theory of predator management
- \* Identifying nuisance species and predator damage
- \* Methods of predator control

**Unit 5: Big game management**

- \* Requirements, limiting factors and sustainable management for:
  - \* White-tailed deer
  - \* Moose
  - \* Black bear
  - \* Woodland caribou

**Unit 6: Small game management**

- \* Requirements, limiting factors and sustainable management for:
  - \* Ruffed, spruce and sharptail grouse
  - \* Pheasants and bobwhites
  - \* Wild turkey
  - \* varying Hare and Cottontail rabbits
  - \* Grey Squirrels
  - \* Other small game species

**Unit 7: Endangered species and urban wildlife management**

- \* Requirements and special management considerations for endangered species and urban wildlife
  - \* Private enterprises and game farming

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Suggested labs:

1. Parasites and diseases of Wildlife
2. Mammal anatomy review
3. Private enterprise assignment
4. Field trip - Trapper's Association - student choice
5. Field trip - OFAH Convention (in Sudbury) - Student choice
6. Trophy scoring review
7. Mammal identification including sci. names
8. Game, shorebird and raptor review
9. Field work - Putting theory into practice for upland game mgmt.

Major Assignments:

1. Private enterprise proposal
2. Management plan for one of the above species  
\* written plan and videoslides presentation "Super Project"
3. Review sheets for:  
\* White-tailed deer management  
\* Moose management  
\* Caribou management                      Black bear management
4. Wildlife Interpretive trail

Details of projects/assignments:

1. Private Enterprise proposal:

Value of assignment: 10% of final grade

Description of assignment: See lab manual pg. \_\_\_\_

Due date: April 8, 1996

2. "Super-project":

Value of assignment: 20% of final grade

Description of assignment:

Each student will select one upland game wildlife species (or compare two or more similar species) from the list below. Your objective will be to do a complete literature search on that species, covering the biology, life history and management of that species. You will present your findings to the rest of the class.

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Research should include:

- \* Biological life history of the species, emphasizing limiting factors
- \* Distribution, status and importance
- \* Up-to-date management by:
  - \*\* Harvest manipulation
  - \*\* Legislation
  - \*\* Population Manipulation
  - \*\* Predator/nuisance species aspect, and control
  - \*\* Problems in management
  - \*\* Research, surveys
- \* Recommendations for future management Presentation to the class:

You should make up a professional presentation on the species that should 3/4 to one hour in length
- \* Part of your presentation should be slides (from any source, including my collection), AND/OR slides put to video AND/OR edited video material. Neil MacEwan in Audio-Visual will attempt to assist in this if you schedule far enough in advance.
- \* I need a typed summary of your report 3 days prior to your presentation. This will be copied for the class.
- \* I also need a complete reference list - I am expecting the most recent and up-to-date publications to be used in this project.

DUE DATE: Presentations will begin on the week of March 25, 1996.

**Species list for "Superproject":**

Alces alces	Rangifer tarandus
Odocoileus virginianus	Ursus americanus
Lepus americanus	Scirus carolinensis
Canis lupus	Canis latrans
Sylvilagus floridanus	Bonasa umbellus
Pedioecetes phasianellus	Canachites canadensis
Philohela minor	Phasianus colchicus
Colinus virginianus	Ursus martimus
Cervus elaphus	Turkius nondomesticus

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**IV. EVALUATION METHODS:** (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.)

Term tests based on theory	- 30%
Laboratory tests	- 35%
Assignments	- 45%
	100%

Grades:

Theory, assignments:

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

Laboratory tests:

A+ = 95+%, A = 85-94%, B = 75-84%, C = 65-74%

**V. 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:

**VI. REQUIRED STUDENT RESOURCES**

Ont. M.N.R. 1992 - White-tailed deer Habitat in Ontario - Background to Guidelines Toronto 35 pp.

Ont. M.N.R. 1992 - Timber Management Guidelines for the Provision of White-Tailed Deer Habitat Toronto 83 pp.

Field guides to Birds, Mammals (from 2nd year)

**VII. SPECIAL NOTES**

Students with special needs (eg. 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.