

**SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON**



COURSE OUTLINE

Course Title: UPLAND GAME MANAGEMENT

Code No.: FOR337 Semester: 6

Program: INTEGRATED RESOURCE MANAGEMENT

Author: Harold Cooper

Date: JAN 1998 Previous Outline Date: JAN 97

Approved:



**Dean, Natural Resources
Programs**



Date

Total Credits: 3 Total credit Hours: 48

Length of Course: 3 hours/week X 16 weeks

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For additional information, please contact Brian Punch, Dean, Natural Resources Programs,
(705) 759-2554, Ext. 688.

UPLAND GAME MANAGEMENT

FOR337-3

COURSE NAME-----
CODE NO.

PREREQUISITES: None (Intro to Wildlife recommended)

I. PHILOSOPHY/GOALS:

This advanced level course will provide knowledge and technical skills required to assist in the management of upland game species, endangered wildlife, and urban wildlife. Students will be required to learn the biology/ ecology, life history , and limiting factors that impact the above groups of species. They will also study management techniques such as harvest manipulation, habitat enhancement, and predator control theory, as they apply to upland species. Attendance for the laboratory sessions will be compulsory.

II . LEARNING OUTCOMES:

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

1. Apply wildlife management principles and biological/ecological knowledge of selected upland species to the development of a comprehensive wildlife management plan.
2. Prepare a professional audio-visual presentation that displays the life history and current management of a pre-selected wildlife species.
3. Discuss exploitation theory and practice as they apply to hunting and trapping.
4. Compare ecological requirements , limiting factors and sustainable management for:
 - a. Big game species
 - b. Predator and nuisance species
 - c. Small game species
 - d. Endangered/threatened/featured species
 - e. Urban wildlife
5. Identify and diagnose major parasites and diseases of wildlife.
6. Develop an entrepreneurial private enterprise plan for wildlife suitable for a woodlot owner in Ontario.
7. Identify critical habitat components of upland wildlife

B. Potential elements of the Performance:

1. Apply wildlife management principles and biological/ecological knowledge....
 - * Identify important principles and problems in wildlife management
 - * Select an appropriate Ontario wildlife species for further research
 - * Using media services, other library services, the Internet and personal contacts, research completely the requirements of your species
 - * Review the process for preparing a species-oriented management plan
 - * Prepare a management plan for your selected upland species.

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2. Prepare a professional audio-visual presentation.....
 - * Collect visual materials, including live video, photographs, and slides
 - * Prepare a script and story board to accompany visuals
 - * Compose an edited , professional presentation with the assistance of the A-V technologist
 - * Present your finished product to an outside audience (i.e. the Envirothon candidates)

3. Discuss exploitation theory and practices.....
 - * Summarize articles and reports dealing with the advantages and disadvantages of hunting and trapping any population
 - * Discuss the impact of exploitation on survival, growth rates etc. of populations
 - * Discuss optimum yield and various sustainable harvesting strategies.

4. Compare ecological requirements, limiting factors, and sustainable management.....
 - * Research the above factors for selected wildlife species
 - * Identify in the field which habitat components are suitable for any given upland species, and how they might be enhanced
 - * Describe sustainable management regimes for important wildlife species.

5. Identify and diagnose major parasites and diseases of wildlife.
 - * Research principle parasites and diseases of wildlife and understand the stages of their life cycles
 - * Study clinical diagnoses and symptoms of parasite/disease infections.
 - * Identify parasites and diseases from wildlife based on visual materials, scenarios, or whole specimens

6. Develop an entrepreneurial private enterprise plan.....
 - * Using provided information and personal research, prepare a plan for a small business dealing with wildlife
 - e.g. Cervid farming
 - Emu ranch
 - Pheasant or other game bird preserve or hunting facility
 - * Visit at least one game farm/preserve

7. Identify critical habitat components
 - * Using visuals, field trips , define and identify essential elements of habitat such as :
 - * Moose calving sites
 - * Moose aquatic feeding areas
 - * Deer and caribou fawning/calving sites
 - * Cover/shelter areas
 - * Nesting areas (stick nests, heronries, waterfowl nests, upland bird nests)
 - * Feeding zones
 - * Perform surveys for the above habitat components

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COURSE NAME-----
CODE NO.**III. TOPICS TO BE COVERED:**

1. Review of Wildlife Management principles
2. Harvest Manipulation
3. Habitat enhancement
4. Predator and Nuisance Species Management
5. Big game management
6. Small Game Management
7. Endangered species and Urban Wildlife Management

IV. REQUIRED STUDENT RESOURCES:

- Lompart, Chris. 1996. *Black Bear in Ontario- Status and management*. Fed. of Ont. Naturalists, Don Mills. 62 pp.
- O.M.N.R. 1992 . *White-tailed Deer Habitat in Ontario - Background to Guidelines*. Toronto. 35pp.
- O.M.N.R. 1997. *Forest Management Guidelines for the Provision of White-tailed Deer Habitat*. Toronto. 31pp.
- O.M.N.R./ O.F.A.H. 1990. *The Moose in Ontario* (2 parts). , Queen's Printer, Toronto. 33pp.
- O.M.N.R. 1989. *Woodland Caribou in Ontario -Background to a Policy*. Toronto. 31 pp.

Other resources will be suggested.

V. EVALUATION PROCESS/ GRADING:

- | | |
|--|-----|
| A. Assignments | 40% |
| <ol style="list-style-type: none"> 1. Wildlife management planning 2. White-tailed deer review sheets 3. Moose review sheets 4. Caribou review sheets 5. Black bear review sheets 6. Featured species summaries 7. Wildlife management plan 8. A-V project (super-project) 9. Private enterprise assignment | |
| B. Labs | 20% |
| <ol style="list-style-type: none"> 1. Parasites and diseases of wildlife 2. Pope & Young scoring - Bear, Moose, Deer 3. Bird I.D. review <ul style="list-style-type: none"> - Raptors, shorebirds, game birds, habitat specific birds (indicators) 4. "Critical habitat " review | |

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- 5. Private Enterprise lab
- 6. Specimen preservation -Study skins - freeze-drying
- 7. Field trip (opt.) - North Bay Trappers convention

- C. Term tests (2) 40%
 - 1. Units 1 - 3
 - 2. Remainder of Course