

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 2000      Previous Outline Date: JAN 99

Approved: \_\_\_\_\_

Dean, Natural Resources      Date  
Programs

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 Joe Fruchter, Dean,  
Natural Resources Programs, (705) 759-2554, Ext. 688.*

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PREREQUISITES: None (Wildlife Biology – FOR205 recommended)

**I. COURSE DESCRIPTION:**

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.

**II. A) 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

**II. B) POTENTIAL ELEMENTS OF THE PERFORMANCE:**

1. Apply wildlife management principles and biological/ecological knowledge of selected upland species to the development of a comprehensive wildlife management plan.

Elements of performance:

- \* 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 that displays the life history and current management of a pre-selected wildlife species.

Elements of the Performance:

- \* 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 practice as they apply to hunting and trapping.

Elements of the Performance:

- \* 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 for:

- a. Big game species
- b. Predator and nuisance species
- c. Small game species
- d. Endangered/threatened/featured species
- e. Urban wildlife

Elements of the Performance:

- \* 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.

Elements of the Performance:

- \* 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

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6. Develop an entrepreneurial private enterprise plan for wildlife suitable for a woodlot owner in Ontario.

Elements of the Performance:

- \* 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 of upland wildlife.

Elements of the Performance:

- \* 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

### 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.

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- 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.
- Racey, G. et al. 1998. *Forest Management Guidelines for the Conservation of Woodland Caribou*. Version 1.0. OMNR. 44 p.
- *Upland Game Management* readings/study guide

Other resources will be suggested.

## V. EVALUATION PROCESS

A. Assignments	<u>40%</u>
1. Wildlife management planning	3%
2. White-tailed deer review sheets	3%
3. Moose review sheets	3%
4. Caribou review sheets	3%
5. Black bear review sheets	3%
6. Wild turkey review sheets	3%
7. Grouse review sheets	3%
8. Featured species summaries	5%
9. Wildlife management plan and A-V project (super-project)	10%
10. Private enterprise assignment	7%

B. Labs : **Attendance for the laboratory sessions will be compulsory** . If a lab/field trip is missed with valid excuse, an alternate lab will be completed on the student's own time. Failure to attend two labs without excuse will result in an immediate "R" grade.

	Total	<u>25%</u>
1. Parasites and diseases of wildlife		5%
2. Pope & Young scoring - Bear, Moose, Deer		4%
3. Mammalian Hair Identification		4%
4. Bird I.D. review :		
Raptors, shorebirds, game birds, other important birds such as habitat specific birds (indicators)		5%
5. "Critical habitat " review		4%
6. Private Enterprise lab		see above
7. Specimen preservation -Study skins - freeze-drying		3%
8 . Field trip (opt.) - North Bay Trappers convention		
C. Term tests (2)		<u>40%</u>
1. Units 1 – 3 (20%)		
2. Remainder of Course (20%)		

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CODE NO.**GRADING:**

The following semester grades will be assigned to students in postsecondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 - 100%	4.00
A	80 - 89%	3.75
B	70 - 79%	3.00
C	60 - 69%	2.00
R (Repeat)	59% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
U	Unsatisfactory achievement in field placement or non-graded subject areas.	
X	A temporary grade. This is used in limited situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see <i>Policies &amp; Procedures Manual – Deferred Grades and Make-up</i> ).	
NR	Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has been impossible for the faculty member to report grades.	

**VI. SPECIAL NOTES:**Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

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Plagiarism

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course, as may be decided by the professor. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

**VII. 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:

**VIII DIRECT CREDIT TRANSFERS:**

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.