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

COURSE OUTLINE

Course Title: INTRODUCTION TO FISH & WILDLIFE

Code No. NRT110 **Semester:** I

Program; FISH & WILDLIFE TECHNICIAN

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Date: SEPTEMBER 98

Approved: _____

Dean, Natural Resources Programs — Date

Total Credits: 3 **Prerequisite(s):**
Length of Course: 3 hrs/week **Total Credit Hours:** 48

I. COURSE DESCRIPTION:

This practical course will introduce the student to field procedures to assess wildlife habitat and relative abundance of animal populations. Field data will be recorded, analyzed and summarized in report format. Collection techniques for both aquatic plant and animal specimens will be practiced including preparation, mounting and display. In addition employment opportunities will be discussed and several guest speakers and tours will address specific opportunities in the Fish and Wildlife field.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Learning Outcomes:

1) Conduct field surveys to assess habitat and relative abundance of wildlife populations

2) Collect and photograph plant and animal specimens for display and interpretation

3) Record, present and interpret field data

4) Evaluate career opportunities in the Fish and Wildlife field

B) Learning Outcomes and Elements Of The Performance:

Upon successful completion of this course the student will demonstrate the ability to:

1) Conduct field surveys to assess habitat and relative abundance of wildlife populations

Potential Elements of the Performance:

execute field procedures as outlined
assess local Canada goose population numbers using droplet survey
determine stream discharge using floatation method, current meter and Manning's Equation
assess chemical parameters of stream water
correctly calibrate and operate field equipment (compass, chain, current meter, HACH kit, Eckman dredge)

construct an appropriate bird feeder for the College woodlot and monitor local bird feeding activity
identify local woodlot bird species by sight and vocalizations

This learfiitig outcome will constitute approximately 40% of the course's grade

2) **Collect and photograph plant and animal specimens for display and interpretation**

Potential Elements of the Performance:
- correctly use nets, traps and various collection techniques
- properly kill, pin and label invertebrate specimens
- properly press and display plant specimens
- effectively operate a 35mm camera by determining aperture size and shutter speed under various light conditions
- develop and present an interpretive demonstration for a plant or animal species

This learning outcome will constitute approximately 40% of the course \s grade

3) Record, present and interpret field data

Potential Elements of the Performance:
- complete field forms accurately
- present data in organized tables, graphs and figures using appropriate software
- analyze and interpret data

This learning outcome will constitute approximately 10 % of the course's grade

4) Evaluate career opportunities in the Fish and Wildlife field

Potential Elements of the Performance:
- summarize government and private opportunities for careers in Fish and Wildlife
- examine entrepreneurial opportunities in Fish and Wildlife

This learning outcome will constitute approximately 10 % of the course's grade

III. TOPICS:

Lab 1. Bird Feeder Design Research
Lab 2. Discharge Determination *
Lab 3. Invertebrate Collection, Killing, Pinning *
Lab 4. Basic Water Analysis *
Lab 5. Wildlife Population Estimate*
Lab 6. Introduction to Aquatic Plants *
Lab 7. Local Woodlot Bird Identification (sight & vocalizations)
Lab 8. Speaker RE: Photography
Lab 9. Tour Re: Sea Lamprey Control *
Lab 10. Speaker RE: BMU's
Lab 11. Interpretive Demonstrations
Lab 12. Speaker RE: Enforcement Opportunities
Lab 13. Speaker RE: Fisheries Opportunities
Lab 14. TBA

* FIELD EXERCISE

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Peterson, Roger.Tory. 1980. Eastern Birds. A Field Guide to the Birds. 4^" Edition. Houghton Mifflin Co., Boston,

V. EVALUATION PROCESS/GRADING SYSTEM

Technical Reports (4)	40%
Insect Collection	15%
Aquatic Plant Collection	10%
Interpretive Demonstration	15%
Quizzes/Participation	**20%**
	100%

BONUS: Wildlife scats (not including waterfowl) collected and in good condition with pertinent information included, will be awarded 2% per scat up to a MAXIMUM of 10% (for 5 different scats)

NOTE: Lab assignments and report values will be reduced at a rate of 10% per day for late submissions for a period of 5 days after the due date. After 5 days and lab assignment/report value will be zero. All labs/assignments and reports must be submitted regardless of lateness to pass the course.

Attendance during field exercises is **MANDATORY.** Student missing field work without valid, documented reason will risk repeating the course.

Method of Assessment (Grading Method) The following letter grade will be assigned:

A+	**Consistently outstanding**	**(90% -100%)**
A	**Outstanding achievement**	**(80% - 89%)**
B	**Consistently above average achievement**	**(70% - 79%)**
C	**Satisfactory or acceptable achievement in all areas subject to assessment**	**(60% - 69%)**
R	**Repeat -- The student has not achieved the objectives of the course and the course must be repeated.**	**(Less than 60%)**

CR Credit exemption

X A temporary grade, limited to situations with extenuating circumstances, giving a student additional time to complete course requirements-

NOTE: Students may be assigned an "R" grade early in the course for unsatisfactory performance.

VL SPECIAL NOTES

Special Needs

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room El204, Ext. 493, 717, 491 so that support services can be arranged for you.

Plagiarism

Students should refer to the definition of "academic dishonesty" in the "Statement of 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.

VL PRIOR LEARNING ASSESSMENT:

Please contact the Prior Learning Assessment Office (E2203) for further information