Revised Aug '86.

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: AQUATIC SURVEYS

Code No.: FOR 328-4

Program: FISH & WILDLIFE/WATER RESOURCES

Semester: V III

Date: AUGUST 1984

Author: V. WALKER

New: _____ Revision: X

APPROVED: _____ _____
Chairperson Date

CALENDAR DESCRIPTION

AQUATIC SURVEYS	FOR 328-4
Course Name	Course Number

PHILOSOPHY/GOALS:

A field course designed to provide a practical evaluation of physical, chemical and biological parameters of lake and stream ecosystems.

METHOD OF ASSESSMENT (GRADING METHOD):

90%+	A+
89 - 89%	A
70 - 79%	B
60 - 69%	C
less than 60%	I

TEXTBOOK(S):

1. Dodge, D.P. et al, 19--. Manual of Instructions, Aquatic Habitat Inventory Surveys. Fish Br., Ont. Min. of Nat. Res. pp. 159.

*2. Scott, W.B. and E.J. Crossman, 1973. Freshwater Fishes of Canada. Fish. Res. Bd. Can., Bull. 184:966.

* Optional for Water Resources

FOR 328-4

AQUATIC SURVEYS

Laboratory Outline

Lab 1
- Introduction to course
- Aquatic Surveys Gear
- Purpose of Aquatic Surveys

2
- Fish Anatomy - QUIZ
- Field Notes/Field Exercise Review
- Fish Handling, Vital Statistics
- Video

3
- Anderson Bay Survey

4

5

6

7
- Free Lab for Physical Features Map/Minnow Forms etc.
- Countour Map QUIZ

8
- Stream Survey

9

10
- Free Lab for Stream Survey completion
- Invert Categorization
- TERM TEST #1

11
- Game Fish ID*, Toxicants, Tags, Sampling Gear
- QUIZ

12
- Aquatic Plant & Invert ID (slide presentation)
- QUIZ

13
- Zooplankton

14
- Creel census design, Video

15
- TERM TEST #2

* Water Resources Only

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AQUATIC SURVEYS

STUDENT EVALUATION

A. Term Tests

A total of two term tests will be written based on practical field work, laboratory exercises and/or guest lecturer material.

Term Test #1 will have a total value of 25 marks. Term Test #2 has a value of 30 marks.

Student must have an average mark of 60% for both term tests. Those students receiving less will be required to write a make-up test during a rewrite period.

B. Quizzes

Several quizzes will be written during the laboratory sessions. A pass mark is 60% for each quiz, however 100% of Ontario's game fish must be correctly identified.

* Water Resources Only

C. Assignments

An aquatic invertebrate collection is required by each student for a value of 10 marks. Lake and stream survey forms, maps and field notes will be submitted at specified times for a total value of 45 marks (see summary of student evaluation and deadlines).

D. Discretionary

A total of 10 marks will be allotted at the instructor's discretion. Students will be evaluated on the basis of attitude, attendance, general participation and interest.

A pass mark for the course is 60%. Attendance during field trips and labs is **MANDATORY**. Students missing these without documented reason will risk repeating the course.

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AQUATIC SURVEYS

SUMMARY OF STUDENT EVALUATION & DEADLINES

	VALUE	DEADLINE/DATE
Equipment Quiz	5	prior to field exercises
Fish Anatomy Quiz	5	prior to field exercises
Aquatic Collection	10	week of Oct. 8
Lake Contour Map and Data Collection Sheet	15	*2 wks. after transects are run in the field
Contour Map Test	5	week of Oct. 15
Remaining Lake Survey Forms/Maps	15	week of Oct. 15
Field Notes	5	week of Oct. 15
Term Test #1	25	week of Oct. 29
Stream Survey Forms/Maps	10	week of Oct. 29
Game Fish ID	10*	week of Nov. 12
Aquatic Plants & Inverts Quiz	20	week of Nov. 19
Term Test #2	30	week of Dec. 10
Discretionary	10	
total	165 (Fish & Wildlife) 175 (Water Resources)	

NOTE: Deadline dates subject to change

Late Assignments:

Ten percent (10%) will be deducted from the total value of the assignment for every day late.

TEXTS

Dodge, D.P. et all 19--. Manual of Instructions, Aquation Habitat Inventory Habitat Inventory Surveys. Fish. Br., Ont. Min. of Nat. Res. pp. 159

*Scott, W.B. and E.J. Crossman. 1973. Freshwater Fishes of Canada. Fish. Res. Bd. Can., Bull. 184:966

* optional for Water Resources