

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE


COURSE TITLE: COMPUTER PROJECTS

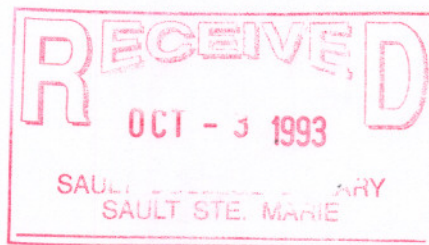
CODE NO.: FOR 362-3 SEMESTER: VI

PROGRAM: FISH & WILDLIFE, INTEGRATED RESOURCE
MANAGEMENT TECHNOLOGY

AUTHOR: ERWIN GOERTZ

DATE: SEPTEMBER 1993 PREVIOUS OUTLINE DATED: JULY 1992

APPROVED:  DEAN DATE *Sept 14 /93*



COMPUTER PROJECTS

FOR 362-3

COURSE NAME

COURSE NUMBER

TOTAL CREDIT HOURS: 48

PREREQUISITE(S): COMPUTER APPLICATIONS (FOR 367)

I. PHILOSOPHY/GOALS:

This course furthers the student's ability to operate an IBM compatible microcomputer and allows the student to use software dealing with his/her area of interest.

This is a project-oriented course in which the student will make contact with an outside natural resource agency (MNR, Conservation Authority, Ducks Unlimited, private logging company, tourism association, Algoma Central Railway, Forest Research Centre, Fish Hatchery...) and complete a project using a microcomputer. The project will meet some aspect of the agency's information needs.

In addition to assisting students with their individual projects, class time will be used to introduce students to resource oriented software packages.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

1. Use an IBM compatible microcomputer and the operating system (MS-DOS) with confidence.
2. Identify microcomputer use in his/her field of interest.
3. Effectively use natural resource software.
4. Complete a microcomputer based project for a natural resource agency.
5. Convey methodology/results of his/her project both orally and in written form.

1. Using MS-DOS and an IBM compatible microcomputer.
2. Running application-oriented software.
3. Software demonstrations.

IV.	<u>LEARNING ACTIVITIES</u>	<u>REQUIRED RESOURCES</u>
September	07 Introduction to Course/ Project definition	-Software will be provided by the instructor or the natural resource agency involved.
	14 Software demonstration	
	17 PROJECT DEFINITION OUTLINE DUE (25% of final mark)	
	21,28 No classes - Field camp	-Students to bring diskettes to each class.
October	05 Work period	
	12 Software demonstration	
	19 Work Period	
	26 Software denomstration	
November	02 Interim oral progress presentation (5%)	
	09 Work Period	
	16 Software demonstration	
	23 Work Period	
	30 STUDENT PRESENTATIONS TO CLASS and WRITTEN REPORT due (20% of final mark)	
December	07 STUDENT PRESENTATIONS TO CLASS and WRITTEN REPORT due (20% of final mark)	
	14 Students who need to modify or add to their reports need to attend this class	

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

Making contact with the Employer/ defining the PROJECT, submitting the PROJECT OUTLINE and CONTRACT	25%
Attendance	10%
Written Report	20%
Interim Presentation to Class on Progress	5%
Oral Presentation to Class	10%
Instructor/Employer Evaluation of Project	30%
	100%

GRADES:

A+	90 - 100%
A	80 - 89%
B	70 - 79%
C	60 - 69%
R	<60%

VI. REQUIRED STUDENT RESOURCES

A minimum of two (2) double sided, double density 5 1/4" floppy diskettes. It is highly recommended that students purchase a box of ten (10) diskettes for the copying of public domain software covered in the course.

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY BOOK SECTION:

1. The professional microcomputer handbook REF QA 76.5 .F464 1986
2. How to buy software: The master guide to picking the right program QA 76.6 .G58 1984
3. Additional reference texts and software may be signed out from the instructor.

- Fishnet
- Portable Data Recorder Software

7. Summarize fish data received from anglers in the annual salmon CAN/AM derby.
8. Review the Lakes and Rivers Improvement Act software used by MNR District staff and compare with Ministry of Transportation methodology.
9. Utilize a software package called "GRAPHER" to produce graphs/charts etc.
10. Utilize a software package called "HARVARD GRAPHICS" to produce graphs/charts etc.
11. Compare "Time-of-death" methods (temperature vs. eye pupil) and summarize for white-tail deer harvested on St. Joe Island.