

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE


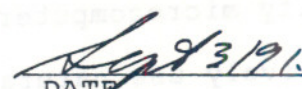
COURSE TITLE: COMPUTER PROJECTS

CODE NO.: FOR 362-3 SEMESTER: VI

PROGRAM: FISH & WILDLIFE, PARKS & RECREATION, AND FOREST MANAGEMENT TECHNOLOGY

AUTHOR: ERWIN GOERTZ

DATE: SEPTEMBER 1991 PREVIOUS OUTLINE DATED: SEPTEMBER 1989

APPROVED:  DEAN  DATE Sept 3/91

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.

COMPUTER PROJECTS

FOR 362-3

COURSE NAME

COURSE NUMBER

III. TOPICS TO BE COVERED:

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

IV.

LEARNING ACTIVITIES
(optional)

REQUIRED RESOURCES

September	05	Introduction to Course/ Project Definition	Software will be provided by the instructor or the natural resource agency involved.
	12	Software Demonstration	
	19	Software Demonstration	
	26	PROJECT DEFINITION OUTLINE DUE (20% of final mark), project assistance	
October	03,10	No class - Students at Field Camp.	
	17	Software Demonstration	
	24	Software Demonstration	
	31	Software Demonstration	
November	07	Software Demonstration	
	14	WRITTEN REPORT due (20% of final mark)	
		Software Demonstration	
	21	STUDENT PRESENTATIONS TO CLASS (15%)	
	28	STUDENT PRESENTATIONS TO CLASS	
December	05	STUDENT PRESENTATIONS TO CLASS	
	12	Software Demonstration	

COMPUTER PROJECTS

FOR 362-3

COURSE NAME

COURSE NUMBER

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

Making contact with the Employer/ defining the PROJECT and submitting the PROJECT OUTLINE	20%
Progress and Attendance	15%
Written Report	20%
Oral Presentation to Class	15%
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.

COMPUTER PROJECTS

FOR 362-3

COURSE NAME

COURSE NUMBER

VIII. SPECIAL NOTES:

Students with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.

- Portable Data Recorder Software
 - Fishnet
 - Silvicultural Information System (S.I.S.)
 - Crop Planning (CRG)
- Examples:

10. Compile a bibliography of software which is presently being used by OMR district offices. This summary would be compiled through a mail-out questionnaire.

COMPUTER PROJECTS

FOR 362-3

COURSE NAME

COURSE NUMBER

EXAMPLES OF POSSIBLE PROJECTS

1. Summarize PARKS statistics for a provincial park.
2. Summarize field data relating to forest tree or insect research using LOTUS 1-2-3 or one of the common statistical packages.
3. Write a "BASIC" program to perform some natural resource task.
4. Using the PAMAP-GIS, evaluate skyline buffer reserves for designated areas in the Sault Ste. Marie district.
5. Evaluate wildlife software which could be used by district wildlife staff.
6. Use a wildlife program to manage the white-tail deer population on St. Joseph Island.
7. Use a wildlife program to summarize the white-tail deer population on St. Joseph Island.
8. Evaluate educational software which could be used in the Forest Technician diploma program at Sault College.
9. Seek out state-of-the-art software from local OMNR district office, FRG office, Lamprey Centre, Fish Hatchery etc... and learn how to use it and complete work for that agency.

Examples:

- Crop Planning (FRG)
 - Silvicultural Information System (S.I.S.)
 - Fishnet
 - Portable Data Recorder Software
10. Compile a bibliography of software which is presently being used by OMNR district offices. This summary would be compiled through a mail-out questionnaire.