

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

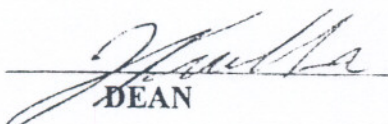
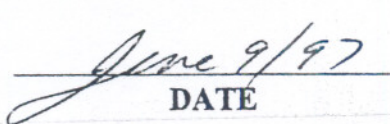
**COURSE TITLE:** Computer Projects

**CODE NO.:** FOR 362-3 **SEMESTER:** Six

**PROGRAM:** Integrated Resources Management Technology

**AUTHOR:** Erwin Goertz

**DATE:** May 1997 **PREVIOUS OUTLINE DATED:** Jan./94

**APPROVED:**  **DEAN**  **DATE**

**TOTAL CREDITS** 3

**PREREQUISITE(S):** FOR 367-2 Computer Applications

**LENGTH OF COURSE:** 2 hours/week **TOTAL CREDIT HOURS:** 32

## COMPUTER PROJECTS

FOR 362-3

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COURSE NAME

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**I. COURSE DESCRIPTION:** This course furthers the student's ability to operate an IBM compatible microcomputer and allows the student to use software specific to his/her area of interest. Conventional software (spreadsheets, database managers, graphics packages) are commonly used to summarize and display project results.

This is a project-oriented course in which students will make contact with an outside natural resource agency (OMNR, conservation authority, Ducks Unlimited, logging company, outfitter, 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 natural resource oriented software packages.

## II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

- 1) Use an IBM compatible microcomputer and the operating system with confidence.

Potential Elements of the Performance:

- copy and save files
- import data from disk to hard drive and vice versa
- import/export data from one software package to another
- trouble shoot problems that may arise relating to available memory, corrupted disks, and printer problems
- create graphs and charts
- use a word processing package to report the results
- access the world wide web and review literature

- 2) Identify microcomputer use in his/her field of interest.

Potential Elements of the Performance:

- contact potential project employers
- investigate tasks required to complete the computer project
- investigate potential software that will meet the needs of the project

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- 3) Effectively compile and manipulate natural resource data.

Potential Elements of the Performance:

- be able to use software related to the project
- be able to input data in a logical arrangement
- be able to delete, add and edit information from the entire data set
- understand how the data was collected
- make recommendations regarding the data once compiled
- identify important conclusions from the data

- 4) Convey methodology and results of his/her project both orally and in documented form.

Potential Elements of the Performance:

- prepare a draft report and submit to the instructor and the employer
- discuss the draft report with the instructor and the employer
- submit a final report to the instructor and the employer
- use audio visual equipment to convey methodology and results of project to fellow students and the instructor

- 5) Use computer software which will be introduced to students.

Potential Elements of the Performance:

- students will use a public domain regression analysis software and apply it
- students will use a public domain random number generator and apply it
- students will use a public domain metric/SI conversion software package and apply it
- students will use a public domain statistics package and apply it
- students will use a public domain mapping package and apply it
- students will gain familiarity with natural resource expert system software

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The following letter grades will be assigned:

Grades:	A+	Consistently outstanding	90 - 100%
	A	Outstanding achievement	80 - 89%
	B	Consistently above average	70 - 79%
	C	Satisfactory/acceptable	60 - 69%
	R	Repeat the course	

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

### VI. SPECIAL NOTES:

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 E1204 (telephone extension 493, 717, or 491) so that support services can be arranged for you.

Students who engage in "academic dishonesty" will receive an automatic failure for that submission/test and/or such other penalty up to and including expulsion from the course, as may be decided by the professor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of the students. This may be due to the availability of equipment, technical difficulties or any unforeseen circumstance.

### VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the instructor.