

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: COMPUTER APPLICATIONS

CODE NO.: FOR 367-2 SEMESTER: V

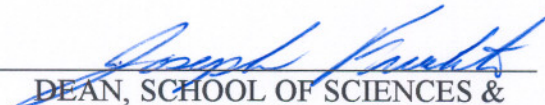
PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

AUTHOR: DON HALL

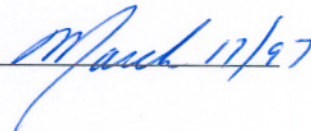
DATE: MARCH 1997

PREVIOUS OUTLINE DATED: JULY 1996

APPROVED:


DEAN, SCHOOL OF SCIENCES &
NATURAL RESOURCES

DATE



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TOTAL CREDIT HOURS: 32

PREREQUISITE(S): EDP122 or approved equivalent

I. PHILOSOPHY/GOALS:

Computer Applications is intended to build on computer skills acquired in earlier courses. Generic software skills are developed and extended, using practical problems of the sort encountered by Integrated Resource Management Technologists. Use of spreadsheets to format and analyze field data is covered in some detail. Natural resource applications for database managers are introduced as well. Students will format and analyze field data collected from other Integrated Resource Management courses. Students are assumed to be competent in the use of word processors, and have a basic understanding of managing files in windows environments. Tutorials and practice exercises will be available for those needing practice with windows

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will be able to:

1. Manage diskettes and files, using the windows file manager
2. Use spreadsheets in the formatting and analysis of fish stocking data
3. Format and present scientific data, in a professional manner
4. Demonstrate appropriate formatting and presentation of climatic data
5. Use spreadsheets in the analysis of life tables
6. Chart trends in fish stocking data
7. Use a database manager to store, filter and retrieve simple data from lake, pond or stream surveys
8. Use a database manager to generate reports from lake survey data

III. TOPICS TO BE COVERED:

Unit 1

- Whitetailed Deer Check Station data
- Review of spreadsheet concepts, and an introduction to use of spreadsheets for presentation and analysis of check station data

Unit 2

- Fish Stocking Data Analysis
- Formatting and analysis of historical stocking data
- Also an introduction to the use of spreadsheets for registration of participants at conferences and meetings

Unit 3

- Formatting Scientific Data
- Working with electronically collected data relating tree diameter, soil moisture, and solar radiation

Unit 4

- Creel Census Data Analysis
- Formatting, sorting, filtering and analysis of large quantities of gill and/or trap net data

Unit 5

- Presentation and analysis of climatic data

Unit 6

- Life Tables
- Use of spreadsheet functions and formulae in the analysis of life table data for cervid populations

Unit 7

- Further studies of cervid life tables
- Also an introduction to use of spreadsheets to model loan amortization

Unit 8

- Charting fish stocking data

Unit 9

- Database Managers for lake, pond and stream surveys
- Design of a simple dBASE table suited to use in lake surveys
- Loading table with field data
- Data assembled here will be used in Units 10 and 11

Unit 10

- Application of queries to lake survey data

Unit 11

- Generation of reports from lake survey data

V. EVALUATION METHODS:

Tests	65%
Assignments	35%
Total	100%

The grading system to be used will be as follows:

A+	90 - 100%
A	80 - 89%
B	70 - 79%
C	60 - 69%
R	Less than 60% (course to be repeated)

There will be two unit tests, students must achieve a grade of at least 60% in both unit tests. If overall average is less than 60%, and the student has passed at least one of the two unit tests, a rewrite may be allowed in the unit not passed.

Attendance is very important. Attendance will be recorded, one way or another, in every class.

Students should maintain a lab book of all printed assignments, and a single disk with all assignments stored in a clear, understandable directory structure. Both the lab book and the disk should be brought to every class, they will be marked periodically.

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VI. REQUIRED STUDENT RESOURCES:

- FOR365 Computer Applications Study Guide
- At least 4 - 3 1/2" High Density (1.44Mb) floppy diskettes
- Students are advised not to purchase books before consulting instructor
- Students should bring at least one blank diskette to every class

VII. SUGGESTED ADDITIONAL RESOURCE MATERIAL

The software support office , A2130, the library and the campus shop all stock useful , related books. Students are advised to consult the instructor , or software support staff, for references that will meet their current needs.

The Learning Assistance Center provides computer-based tutorials in windows, use of the mouse and (at times) other software. These are highly recommended for students who need help in basic computer skills

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.