

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: COMPUTERS IN EDUCATION

CODE NO.: ED 262 SEMESTER: II

PROGRAM: TEACHERS' ASSISTANT

INSTRUCTOR: SUE BARBER

DATE: JANUARY 1996 PREVIOUS OUTLINE: SEPT. 1995

NEW: _____

REVISED: X

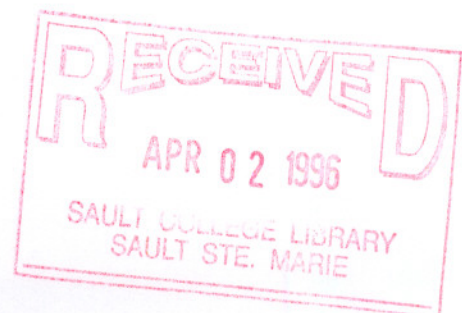
APPROVED:

Kitty DeRosario
Kitty DeRosario, Dean
School of Human Sciences &
Teacher Education

Date

Jan. 16/96

****NOTE:** Do not discard this outline. It will be required by other educational institutions if you are attempting to obtain credit for this course.



COMPUTERS IN EDUCATION (ED 262)

PREREQUISITES: EDP122 INTRODUCTION TO COMPUTERS

I. PHILOSOPHY/GOALS:

The Computers in Education course has been created in order to present information regarding computer hardware, software, functions, purposes, types, and their operation. The many functions of computers and their impact on education will be presented. Students will increase their computer literacy and develop a positive attitude towards computers and technology.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

Describe the functions of the basic components of a personal computer.

Demonstrate the proper operation of the IBM (or compatible), APPLE and ICON I computer.

Evaluate hardware and software that can be used in the educational setting.

Discuss the current issues regarding the use of technology in education.

III. TOPICS TO BE COVERED

Computer components and their operation, function and maintenance.

Learning styles and technology.

Technology in Education: issues and trends.

Purchasing a computer for yourself or school.

Troubleshooting and utilities.

How to be computer literate without a computer.

IV. LEARNING ACTIVITIES

This is a hands on course; lecture time will be minimal. Much of your time will be spent looking at operating systems and software and collecting information from computer stores in town, public and secondary schools, and the College.

Topics will include:

Basic operation - switches and plugs

Input devices - mouse, keyboard, scanner

Output devices - monitors, printers, disks

Learning styles

Software evaluation

The internet - what is it and how to surf

Computer use in our Community

COMPUTERS IN EDUCATION (ED 262)

V. METHODS OF EVALUATION

The following grades will be assigned to students in post secondary programs:

- A+ Consistently outstanding (>90%)
- A Outstanding Achievement (80% to 89%)
- B Consistently above average achievement (66%-79%)
- C Satisfactory or acceptable achievement in all areas subject to assessment (55%-65%)
- R Repeat - The student has not achieved the objectives of the course and the course must be repeated.
- X A temporary grade, limited to situations with extenuating circumstances, giving a student additional time to complete course requirements.

Your final grade will be made up of the following:

QUIZZES (20%)

Two quizzes will be given in class time. Both will be announced in advance along with a **summary of the information to be covered. The quizzes are to be typed in WORDPERFECT and submitted on disk.**

SCHOOL NEWSPAPER (15%)

Using a graphics and word processing package or newspaper design package, you will design a 4 page school newspaper covering topics relative to your area of interest. You may design a newspaper for any grade or grade grouping from JK to OAC. You newspaper must include graphics and text in a readable format. It can be submitted in a photocopy ready state.

Marks will be assigned as follows:

Layout	40%
Use of graphics	20%
Word processing	20%
Creativity	10%
Accuracy	10%

COMPUTERS IN EDUCATION (ED 262)

BOOK CHAPTER (PAPER) 30%

There is no textbook for this course, so we will create our own. Using one of the suggested topics below, or a topic of your own, create a chapter of no less than 1000 words. Your paper must be correctly referenced and must be typed on WORDPERFECT and submitted on your own disk.

Marks will be assigned as follows:

Content	40%
Organization	20%
Creativity	10%
References	10%
Word processing	20%

SUGGESTED TOPICS:

How computers work.	Comparison of IBM, APPLE and ICON computers.
Peripheral devices and their use.	Data storage.
How computer helped/hindered my special needs student: a case study.	How computers work in my classroom: a case study.
Computer games: do they have educational value?	Computers and the learning disabled.
Utility programs - how to manage your software.	Computers and the young child/older child/adolescent/adult/elderly.
How the Sault Board of Education sees the use of computers in local schools.	
Common mistakes in computing - solutions.	Computers are just toys and have no place in the classroom!
Possible hardware for the challenged.	A topic of your own.

SOFTWARE AND HARDWARE EVALUATION (35%)

Working in teams of 2, you will design an evaluation form and evaluate 20 different software packages. Your results are to be handed in as a team (one copy) and your team is to choose 1 software package (either a favourite or a least favourite) and present it to the class. Your team will need to justify your evaluation form, your criteria, your choices and your conclusions during the presentation. The evaluations criteria and the evaluations are to be typed in WORDPERFECT and submitted on disk.

Marks will be assigned as follows:

Evaluation form	50%
Written evaluations	30%
Presentation	20%

ALL ASSIGNMENTS ARE TO BE SUBMITTED BY MONDAY, APRIL 29, 1996

COMPUTERS IN EDUCATION (ED 262)

VI. PRIOR LEARNING ASSESSMENT

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

VII. REQUIRED STUDENT RESOURCES

Each student must purchase a **3 1/2 inch floppy high density diskette**. It is to be labelled with the student's name, student number and (optionally) phone number and used to submit all assignments and quizzes. It is highly recommended that the student purchase an additional diskette to use as a backup of all assignments.

VIII. ADDITIONAL RESOURCE MATERIALS (available in the College library or the Internet)

Titles given during the semester.

IX. SPECIAL NOTES

Students with special needs 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.