

# EDUCATION 482-4

## Designs For Learning: Educational Uses Of Computers

SUMMER SESSION 1995

D. Bell

**PREREQUISITE:** EDUC 401/402.**OBJECTIVES**

Recent developments in microelectronics have hastened the arrival of computers in the classroom. This course will examine the various ways that computers might influence the teaching-learning process and classroom management.

Students in this course will:

- a) develop competencies in the operation of microcomputers.
- b) develop skills related to the selection, evaluation and utilization of computer-based learning materials.
- c) develop an awareness of the ways computers can be used to support the instructional and administrative tasks of teachers.
- d) develop a critical awareness of the role of computers in society and the implication of this for education.

*This is an introductory course in which students will develop a level of computer literacy sufficient for the intelligent and critical utilization of existing microcomputer hardware and software. It is not a course designed to prepare teachers to teach computing science courses nor will it prepare teachers to write computer-assisted learning materials.*

**OUTLINE OF TOPICS**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Operation of Microcomputers           <ol style="list-style-type: none"> <li>a) components and their function</li> <li>b) connecting and peripheral devices</li> <li>c) programs and programming</li> </ol> </li> <li>2. Modes of computer utilization           <ol style="list-style-type: none"> <li>a) the computer as instructor</li> <li>b) the computer as laboratory</li> <li>c) the computer as object of study</li> <li>d) the computer as teacher's aide</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>3. Selection and utilization of software           <ol style="list-style-type: none"> <li>a) sources of materials</li> <li>b) evaluation of courseware</li> <li>c) integrating computers in the curriculum</li> </ol> </li> <li>4. Computer literacy           <ol style="list-style-type: none"> <li>a) print and non-print materials on computers</li> <li>b) role of computers in schools and society</li> <li>c) status of computers in B.C. schools</li> <li>d) use and misuse of computers in education</li> </ol> </li> </ol> |
|--|---|

**COURSE ACTIVITIES**

Course activities will consist of lectures, demonstrations, readings and laboratories.

**EVALUATION**

- |   |     |
|---|-----|
| 1. Lab Exercises .....                      | 50% |
| 2. Maintenance of an Internet Journal ..... | 20% |
| 3. Implementation Project .....             | 30% |

**REQUIRED TEXTBOOKS**

Hirschbuhl, John J. (ed.). Computers in Education. Dushkin, 6th edition.