

EDUCATION 482-4

Designs For Learning: Educational Uses Of Computers

SPRING SEMESTER 1995

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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

1. Operation of Microcomputers
 - a) components and their function
 - b) connecting and peripheral devices
 - c) programs and programming
2. Modes of computer utilization
 - a) the computer as instructor
 - b) the computer as laboratory
 - c) the computer as object of study
 - d) the computer as teacher's aide
3. Selection and utilization of software
 - a) sources of materials
 - b) evaluation of courseware
 - c) integrating computers in the curriculum
4. Computer literacy
 - a) print and non-print materials on computers
 - b) role of computers in schools and society
 - c) status of computers in B.C. schools
 - d) use and misuse of computers in education

COURSE ACTIVITIES

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

EVALUATION

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| 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.