

EDUCATION 482-4

DESIGNS FOR LEARNING: EDUCATIONAL USES OF COMPUTERS

Spring Semester, 1989
Tuesday, 4:30 - 8:20 or
Wednesday, 4:30 - 8:20

Instructor: Evelyn Ng
Location: MPX 8651

PREREQUISITES: Education 401/402 or equivalent

GENERAL DESCRIPTION:

An introduction to the roles and applications of computers in education, and to problems of computer use in the classroom. Brief training is given on the operation of microcomputers, use of a sampling of exemplary programs, and the selection of educational software. Every time the course is offered, it has an emphasis on a different aspect of computer applications.

TOPICS:

- Use of computers in the classroom: concerns, expectations and confusions.
- Integration of educational software into the curriculum: exploration of types of software, and means of integration.
- Computer-assisted instructional materials: design, modification and evaluation.
- Programming applications in the curriculum: choice of languages, and consideration of approaches.

COURSE ACTIVITIES:

Lectures, demonstrations, readings, and laboratory work.

EVALUATION:

- A paper documenting the design of an application of the computer to a selected curriculum area. (40%)
- A class presentation illustrating the use and limitation of a piece of educational software for a selected learning task. (30%)
- Short tests related to lectures, readings, and demonstrations. (30%)

TEXTBOOK:

Lockard, J., Abrams, P.D., & Many, W.A. (1987). Microcomputers for Educators. Toronto: Little, Brown and Company.