# EDUCATION 482-4

# DESIGNS FOR LEARNING: EDUCATIONAL USES OF COMPUTERS

Spring Semester, 1989 Tuesday, 4:30 - 8:20 <u>or</u> Wednesday, 4:30 - 8:20 Instructor: Location:

Evelyn Ng 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). <u>Microcomputers for Educators</u>. Toronto: Little, Brown and Company.