# SIMON FRASER UNIVERSITY

# EDUCATION 482-4

## DESIGNS FOR LEARNING: EDUCATIONAL USES OF COMPUTERS

#### D1.00

Regular Summer Semester, 1989 (May 8 – August 4) Tuesday, 1:00 p.m. - 4:50 p.m. Location: MPX 7500

Instructor: Evelyn Ng Office: MPX 8676 Phone: 291-3642

**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.

### **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.
- Computer education: curriculum development and implementation.
- Computer-mediated communication in education: current possibilities.

## 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.