

# EDUCATION 482-4

## DESIGNS FOR LEARNING: EDUCATIONAL USES OF COMPUTERS

The course introduces various types of applications of computers in education and requires the students to learn through reading, interacting with others, and working on a computer. Different ways that computers might influence learning and teaching are examined. The following topics are covered:

- Approaches and issues in using computers in the classroom
- Evaluation of educational software
- Methods of integrating software into the curriculum to address students' learning needs
- Basics of using productivity software and introductory programming
- Communications and conferencing via computers
- Multimedia in the classroom

**PREREQUISITE:** EDUC 401/402

### REQUIRED MATERIALS:

#### Textbook

Forcier, R.C. (1996). *The Computer as a Productivity Tool in Education*. Merrill/Prentice Hall.

#### Equipment

Almost all the requirements for completing this course involve the use of computers, e-mail, and electronic conferencing. Because of the course software requirements, the computer must be one of the following systems:

**MAC:** System 7.0, 8Mb RAM, 30Mb free disk space, modem (9600 baud minimum, 14.4 baud recommended), unrestricted telephone line (your home phone), and a printer.

**PC:** WIN 3.1, 8Mb RAM, 30Mb free disk space, modem (9600 baud minimum, 14.4 baud recommended), unrestricted telephone line (your home phone), and a printer.

#### Software

*ClarisWorks 4.0* (must include the *ClarisWorks 4.0 User's Guide*) (approx. \$85 - \$100)

- Available for purchase through the SFU Microstore AQ 3145, Phone 604-291-3098  
Mon. - Fri. 10 a.m. - 4:30 p.m.

*LOGOWriter\*\** (DOS users) OR *HyperCard 1.26\*\** (MAC users)

*FirstClass Client Tool\*\**

*Netscape Navigator 2.01\**

SLIP or PPP software\*

At least 8 other "open-ended" instructional programs, e.g. *Where in the World is Carmen Sandiego* or *Reader Rabbit*

\* available through your local Internet service provider

\*\* in your course package

### COURSE REQUIREMENTS:

- |   |     |
|---|-----|
| • 5 hands-on exercises (5% each)                            | 25% |
| • 2 Software evaluations and on-line presentation (5% each) | 15% |
| • Participation in electronic conferencing (5% each)        | 15% |
| • Final Project   | 20% |
| • Final Examination   | 25% |

**SUPPLEMENTARY FEES:** Course Materials & Service Fee \$30

**COURSE INSTRUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT NOTICE.**