

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:

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| • 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