

EDUC 482 - 4 Designs for Learning: Educational Uses of Computers

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Section: E1.00

Scheduled Final Exam: No

PREREQUISITE

Educ 401/402

COURSE DESCRIPTION

Students will develop a critical understanding of the role of computers in education and will learn how microcomputers can be used in the classroom.

This course will examine the various ways that computers might influence the teaching-learning process and classroom management. This will include the use of microcomputers and related software found in the classroom, introduction to a mainframe computer, and accessing remote computers using an electronic networking systems.

OUTLINE OF TOPICS

1. Operation of Microcomputers
2. Modes of computer utilization
3. Selection and utilization of software
4. Computer literacy

OBJECTIVES

Students in this course will:

- a. develop competencies in the operation of microcomputers.
- b. develop skills in the selection, evaluation and appropriate uses of computer-based learning materials.
- c. develop awareness of the ways a computer can be used by the teacher to support instructional & administrative tasks.
- d. develop awareness of the benefits and resources available when computers are connected to local and remote networks.
- e. develop a critical awareness of the role of computers in society and the implications of this for education.

This course is *not* designed as a computer programming course which will prepare teachers to write computer-assisted learning materials or to prepare the teacher to teach computing science courses.

REQUIREMENTS

Course activities will consist of lectures and discussions, tests, demonstrations, readings and laboratory assignments. Working in groups students will prepare demonstrations and participate in peer tutoring activities.

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| 1. Lab Exercises & Student Group Demonstrations | 35% |
| 2. Short tests related to lectures, labs and readings | 30% |
| 3. Maintaining a double-entry journal and portfolio of work | 15% |
| 4. Implementation Project | 20% |

READINGS

				REQ	REC
0-395-67305-4	Grabe, M. & Grabe, C.	Toronto: Houghton Mifflin (1996)	<u>Integrating Technology for Meaningful Learning</u>	X	
0-13-239187-2	Ryder & Hughes	Prentice-Hall	<u>Internet for Educators</u>		X