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Semester: 97-1

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

**Tuesdays 16:30 - 20:20**

**Section: E1.00**

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**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

**OBJECTIVES**

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.

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 the computer can be used by the teacher to support instructional and 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.

**OUTLINE OF TOPICS**

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

**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.

**EVALUATION**

1. Lab Exercises & Student Group Demonstrations - 35%
2. Short tests related to lectures, labs and readings - 25%
3. Maintaining a double-entry journal and portfolio of work - 15%
4. Implementation Project - 25%

**REQUIRED READING**

Grabe, M. & Grabe, C. Integrating Technology for Meaningful Learning Toronto: Houghton Mifflin, 1996.