

Semester 2008

Session: Summer Semester

Social Insurance No.:

<b>EDUC 475 - 4 Designs for Learning: Elementary Mathematics</b>	
ST:Title	
Wednesday 1:00-4:50 pm EDB 8620B	
Section D200	Scheduled Final Exam Y/N:                      Enrollment: 30

Instructor: Eg Chernoff  
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**PREREQUISITE**

Educ 401/402

**COURSE DESCRIPTION**

**DESCRIPTION**

The mathematics curriculum in British Columbia has undergone major changes in the last few years. New content areas such as data analysis, statistics and probability have been added; traditional topics such as geometry have been revised and extended. Implementation of the curriculum now involves regular use of manipulatives and calculators by the students. Learning and assessment practices are becoming increasingly aligned with the most recent theories of mathematics education. In the 'reflective practitioner' model of teaching, the teacher is continually reviewing and interweaving theory, content and practice.

This course is designed for prospective and practicing elementary school teachers who wish to explore the fundamentals of the learning/teaching process as it applies to mathematics. Using the provincial Instructional Resource Package as an organizing framework, the class will review content and implementation. The course will draw on the latest research in mathematics learning, and will show how such findings may be used in the classroom. Goals for students in this course include: (1) developing familiarity with theories of mathematics learning and their application in the classroom; (2) developing expertise with the use of resources such as manipulatives and calculators; (3) beginning or continuing the accumulation of classroom and professional resources; and (4) increasing confidence and competence in one's abilities as a mathematician.

**OBJECTIVES**

**REQUIREMENTS**

**READINGS**

ISBN	Author	Publisher	Title	REQ	REC
9780205488391	Van de Walle, John A. & Folk, Sandra (2nd Cdn Ed.)	Toronto: Pearson Education Canada	Elementary & Middle School Mathematics: Teaching Developmentally	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Book Order Comments**

**Additional Information**