

Semester 2007

Session: Summer (Intersession)

Social Insurance No.:

EDUC 475 - 4 Designs for Learning: Elementary Mathematics	
ST:Title	
Monday & Wednesday 8:30-12:20	
Section D04.0	Scheduled Final Exam Y/N:
Enrollment: 35	

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PREREQUISITE

Educ 401/402

COURSE DESCRIPTION

DESCRIPTION

The mathematics curriculum in British Columbia has undergone major change in the last few years. The revised curriculum includes new topics such as data analysis and probability, and other topics, such as geometry, receive greater emphasis. Calculators have become a natural component of the school program. Students are expected to use manipulative materials as a major vehicle for learning.

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. The course will draw on the latest research in mathematics learning, and will show how such findings may be used in the classroom. Students will be expected to become familiar with and confident in the use of a variety of manipulative materials such as geo-boards, pattern blocks, and coloured rods. They will also explore the realities of mathematical learning by examining their own learning powers and patterns. On completion of the course it is hoped that participants will feel more at ease with the subject of mathematics, be able to deal confidently with the prescribed curriculum, and be able to plan mathematical instruction within a consistent framework.

OUTLINE OF TOPICS

- o Theories of mathematics learning
- o Measurement
- o Number and number operations

OBJECTIVES

REQUIREMENTS

READINGS

ISBN	Author	Publisher	Title	REQ	REC
0205-42077X	Van De Walle, John A.	Addison Wesley Longman, Inc. (2000)	Elementary & Middle School Mathematics: Teaching Developmentally (Canadian edition)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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