

**SIMON FRASER UNIVERSITY
SUMMER (Intersession) 2007**

**EDUC 475-4
DESIGNS FOR LEARNING: ELEMENTARY
MATHEMATICS
(D09.00)**

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Location: Terrace
Day & Time TBD

PREREQUISITE: EDUC 401/402

COURSE OBJECTIVE: This course is designed for prospective and practicing teachers who wish to explore the fundamentals of the learning/teaching processes as they apply to mathematics. On completion of the course the participants will be able to deal confidently with the prescribed curriculum, and be able to plan, teach and assess mathematics instruction within a consistent framework.

COURSE DESCRIPTION: The mathematics curriculum in B.C. has undergone major change in the last few years. The revised curriculum includes new topics and other topics now receive greater emphasis than before. Students will explore the realities of mathematical learning by examining their own learning powers and patterns. They will be expected to become familiar with and confident in the use of a variety of manipulative materials such as geoboards and pattern blocks.

Topics that will be covered include:
Number and Number Operations
Problem Solving
Measurement
Estimation and mental computation
Geometry
Data analysis
Technology
History

REQUIREMENTS

Due dates and details will be discussed during the first session.
Evaluation will be based on the following:
Attendance and participation
Journal/Critique Assignment
Class presentation assignment
Development of a Learning Sequence

REQUIRED TEXT

Van de Walle, John A. Elementary and Middle School Mathematics: Teaching Developmentally (Canadian edition). Logman. New York, NY.