

**SIMON FRASER UNIVERSITY  
SUMMER SESSION 2009**

**EDUC 475-4  
DESIGNS FOR LEARNING: ELEMENTARY  
MATHEMATICS  
(D400)**

Shiva Gol Tabaghi  
office: edb 7508  
phone: 778-782-4117  
email: [sga31@sfu.ca](mailto:sga31@sfu.ca)

Tuesday & Thursday 1:30-5:20  
EDB 7600F

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**PREREQUISITE:** EDUC 401/402

**COURSE 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. 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.

**EXPECTATIONS**

I expect that you are present at each course and that you participate fully in discussions and activities. Your active participation is essential to the conduct of the course, and your success in the course. Inform me in advance if you must miss a lesson.

**EVALUATION**

A: Attendance/Active Participation in Class 15%  
B: Reflective Journey 25%  
C: Min-lesson 20%  
D: Assignments 40%

**REQUIRED TEXT**

Van de Walle, John A. & Folk, S. (2008) Elementary & Middle School Mathematics: Second Canadian Edition. Pearson Education Canada (ISBN-13: 9780205488391)

*Students in all Faculty of Education courses are encouraged to review policies pertaining to academic integrity available on the Undergraduate Programs website:*

[http://www.educ.sfu.ca/ugradprogs/student\\_resources/index.html](http://www.educ.sfu.ca/ugradprogs/student_resources/index.html)