

SIMON FRASER UNIVERSITY

EDUCATION 475-4

**DESIGNS FOR LEARNING: MATHEMATICS
(Elementary)**

Regular Summer Semester, 1991
(May 6 - August 2)
Fridays, 8:30 a.m. - 12:20 p.m.
Location: MPX 7500F

Instructor: Norma Evans
Office: MPX 9508
Phone: 291-5982

PREREQUISITE: Education 401/402 or equivalent.

COURSE DESCRIPTION

Elementary mathematics can be stimulating and fun for both teacher and student. The curriculum will be presented through a variety of strategies and activities designed to promote student interest and growth in the subject and reduce anxiety. A problem solving/hands on focus will be emphasized throughout the course.

TOPICS THAT WILL BE COVERED

- Problem solving
- Cooperative learning
- Strategies to encourage second language students
- Number and number operations
- Estimation and mental computations
- Measurement
- Calculators and computers
- Data analysis
- Geometry
- Historical topics and algebra
- Mathematics across the curriculum
- Gender equity in the mathematics classroom

EVALUATION

Due dates and details will be discussed during the first session. Evaluation will be based on the following:

- attendance and participation
- completion and presentation of unit plan with an activity
- choice of review of textbook or software package – or – preparation of an activity log/resource book

NB: Assignments may be submitted in either French or English

TEXTBOOK

Mathematics Grades 1-8 Curriculum Guide, 1987.