

Summer Semester 2002

EDUC 475 - 4
Designs for Learning:
Elementary Mathematics
E01.00

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Tuesday 17:30-21:20 in EDB 7500F

PREREQUISITE

Educ 401/402

DESCRIPTION

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. On completion of the course it is hoped that 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.

Elementary mathematics can be stimulating for both the teacher and student. Change continues to occur in the elementary mathematics curriculum in terms of content and process. The concept of "numeracy" is receiving much greater emphasis, while at the same time calculators have become an integral component of the program. This course will draw from the latest research in mathematics learning, and will be presented through a variety of strategies and activities that will actively engage the learner. A multiple intelligence focus will be emphasized throughout the course.

TOPICS

- Problem solving
- Strategies and activities
- Number and number operations
- Measurement
- Data analysis
- Writing activities
- Integrated Resource Package (IRP)
- Manipulatives
- NCTM standards
- Estimation and mental computations
- Technology
- Geometry
- Multiple intelligences
- Historical topics and algebra

EVALUATION: Due dates and details will be discussed during the first session.

Evaluation will be based on the following:

- Attendance and participation
- Journal/critique assignment
- Completion and presentation of group game
- Individual project related to the student's own interest

RESOURCES/TEXT

British Columbia Ministry of Education. (1996) *Mathematics K-7: Integrated Resource Package*.
[available on-line at <http://www.bced.gov.bc.ca/irp/>]

Photocopies of articles and activities will be distributed on the first day of class.