

Summer Semester 2002

EDUC 475 - 4
**Designs for Learning:
Elementary Mathematics**
D02.00

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Office: TBA
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Wednesday 8:30-12:20 in EDB 7610

PREREQUISITE

Educ 401/402

DESCRIPTION

This course is designed for prospective and practicing elementary school teachers who wish to explore some basic ideas in teaching and learning elementary mathematics. On completion of the course it is hoped that participants will be able to teach the prescribed curriculum in an interesting and varied fashion, and to plan, teach, and assess mathematics learning within a consistent framework.

Learning mathematics should be interesting, exciting and stimulating for students and teachers. Curriculum content and methods of teaching elementary mathematics continue to change. The concept of "numeracy" is receiving increased attention, greater emphasis is being placed on understanding mathematical ideas, and problem solving remains at the core of mathematical understanding.

POSSIBLE TOPICS:

- Problem solving
- Manipulatives
- Number and number operations
- Geometry
- Measurement
- Statistics and Probability
- Integrated Resource Package (IRP)
- Estimation and mental mathematics
- Assessment
- Technology
- Algebra
- Outdoor mathematics

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

Evaluation will be based on the following:

- Attendance
- Individual Project
- Completion of a Portfolio
- Completion and presentation of a group project

RESOURCES

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

Van De Walle, John A. (2000). *Elementary & Middle School Mathematics: Teaching Developmentally*. Addison Wesley Longman, Inc.