

EDUCATION 475-4
DESIGNS FOR LEARNING: MATHEMATICS (ELEMENTARY)
(D2.00)

Fall Semester, 1991
Mondays and Thursdays
3:30–5:30 p.m.
Location: Northern Lights College
Fort Nelson, B.C.

Instructor: Allan Forsberg
Phone: 774-4281, 774-2738

PREREQUISITE: Educ 401/402

COURSE DESCRIPTION

This course is designed for prospective and practising elementary school teachers. The broad goals of the course are:

- to help students explore the fundamentals of the teaching/learning process as it applies to elementary mathematics
- to help students feel more at ease with the subject of mathematics
- to help students relate mathematics to the world outside the classroom
- to help students become familiar with and confident in the use of a variety of manipulative aids
- to help students discuss and formulate their own rationale as to the how and the why of teaching mathematics
- to help students deal confidently with the prescribed curriculum
- to help students learn to plan mathematical instruction within a consistent framework

TOPICS

Planning to Teach
Using Curriculum Guides and resources
Problem Solving
Strategies and Activities
Number Theory
Number Operations
Estimation and Mental Computations
Measurement
Data Analysis
Geometry
Assessment, Evaluation and Remediation

EVALUATION

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

- attendance and participation
- completion and presentation of unit plans and teaching strategies
- review and comparison of textbooks and/or resources

TEXTBOOKS

Post, Tom (ed.). Teaching Mathematics in Grades K–8: Research Based Methods. Toronto: Allyn & Bacon. 1988.
Mathematics Grades 1–8 Curriculum Guide — 1987. B.C. Ministry of Education.