

SIMON FRASER UNIVERSITY

EDUCATION 475-4

DESIGNS FOR LEARNING: MATHEMATICS (ELEMENTARY)

Regular Summer Semester, 1991
(May 6 – August 2)
Mondays, 5:30 – 9:20 p.m.
Location: MPX 7600

Instructor: Sarah Joyce

PREREQUISITE: Educ 401/402, or equivalent.

COURSE DESCRIPTION

The course is designed for prospective and practising elementary school teachers who wish to explore the fundamentals of the learning/teaching process as it applies to mathematics. It attempts to foster enjoyment of mathematics through the use of a variety of activities and games selected to promote interest and growth in the subject as well as to reduce anxiety about performance.

OUTLINE OF TOPICS

- history of mathematics
- naming and counting
- operations on whole numbers
- fractions
- decimals
- percent
- the metric system
- problem solving
- geometry

TYPICAL REQUIREMENTS

- attendance, participation and completion of homework assignments
- one or more oral presentations
- lesson plan assignment
- one written assignment
- field experience

Due dates and general guidelines will be discussed during the first sessions.

REQUIRED TEXTBOOK

Post, T. Teaching Mathematics in Grades K–8. Allyn & Bacon, 1988.
ISBN 0-205-11076-2.