

**SIMON FRASER UNIVERSITY
SUMMER SEMESTER 2004**

**EDUC 415-4
DESIGNS FOR LEARNING: SECONDARY
MATHEMATICS
(E01.00)**

THOMAS FALKENBERG

Office: TBD

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

PREREQUISITE: EDUC 401/402

DESCRIPTION

The course is designed for prospective and practicing secondary school teachers who wish to explore the learning and teaching process as it applies to secondary school mathematics. The objective of the course is to provide the participants with appropriate learning experiences so that they feel confident designing secondary school mathematics instructions within a consistent framework using appropriate instructional materials and methods. Participants will explore theoretical and practical aspects of mathematics teaching, their own learning, and their role as teachers. Different forms of mathematics learning and different instructional strategies will be experienced and explored in class, and theoretical and practical aspects of curriculum implementation, instructional materials (calculator, manipulatives, internet, etc.) and assessment and evaluation in mathematics teaching and learning will be investigated.

REQUIREMENTS

Students are expected to attend all classes, participate in class work, do the required reading, and complete assignments. More specific requirements will be given out on the first day of classes.

REQUIRED TEXTS / MATERIALS

Bennett, Barrie & Rolheiser, Carol (2001). Beyond Monet: The artful science of instructional integration. Toronto: Bookation. (ISBN 0-9695388-3-9)

Posamentier, Alfred S., & Stepelman, J. (2002). Teaching secondary mathematics: Techniques and enrichment units (6th ed.). Upper Saddle River, NJ: Merrill Prentice Hall. (ISBN 0-13-094514-5)

Students are required to have a graphing calculator available for selected classes.

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