

Designs for Learning: Secondary Mathematics

Education 415

Section: E100

Term: 2011 Summer

Instructor: Sean Chorney

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Tuesday 5:30-9:30pm Burnaby Campus AQ5039

Discussion Topics: This course is designed for prospective and practicing secondary school teachers who wish to explore the learning/teaching process as it applies to secondary school mathematics.

The objective of the course is to enhance the confidence and competence of course participants in planning and implementing instruction in the secondary school mathematics classroom while working within a consistent framework and using appropriate materials and methods.

Participants will explore both theoretical and practical aspects of mathematics teaching and learning including topics such as the role of problem solving, the role of written work, assessment and evaluation, enrichment and motivation, the structure and content of the provincial curriculum and the use of instructional resources and tools such as calculators, software, manipulative, and online sources. Participants will also investigate and reflect upon their own mathematical thinking and learning through problem solving and extensions of the curriculum.

Grading: Specific details of the following will be discussed during the first session. Assignments are as follows:

\x09Problem solving assignment and accumulation/construction of a problem set
Written discussion points on class discussions and/or textbook readings
Presentation of solution to problem solving assignments and problem set
Group projects and presentations
This course will NOT have a final exam

Required Texts: Teaching Secondary Mathematics: Techniques and Enrichment Units (8th edition) - Posamentier, A.S., Smith, B., & Stepelman, J. (2010). Allyn & Bacon. ISBN: 0-13-500003-3

Recommended Texts:

Materials/Supplies:

Prerequisite/Corequisite:

Notes: Students in all Faculty of Education courses are encouraged to review policies pertaining to academic integrity available on the Undergraduate Programs website:
http://www.educ.sfu.ca/ugradprogs/student_resources/index.html

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