

**SIMON FRASER UNIVERSITY
SUMMER SEMESTER 2004**

**EDUC 416-4
DESIGNS FOR LEARNING: SECONDARY SCIENCE
(D01.00)**

Anweet Sivia

Mondays 8:30-12:20 in EDB 7500F

PREREQUISITE: EDUC 401/402

COURSE DESCRIPTION

This course is designed for prospective and practicing secondary teachers who wish to explore the fundamentals of Science teaching and learning. The course will draw from literature about Science education and students will be expected to apply theoretical frames to classroom practice. Students are expected to be familiar with a variety of teaching strategies, including group work. Students will be expected to engage in conversations and write about curriculum development issues arising from research traditions such as constructivism, feminism, critical pedagogy, and anti-racism. Students will draw upon their passion for Science as a starting point for developing lessons and activities to inspire learning in their classrooms. Finally, students will, through this course, prepare themselves to be lifelong innovators in Science education.

Objectives:

On completion of this course, it is hoped that students will feel more at ease with teaching students Science at the secondary level, be able to deal confidently with prescribed curriculum, and be able to plan teaching and learning activities which support a growth in Science understanding.

Assignments:

1. Critical Challenge Lesson (Group lesson)
2. Science Connections
3. Conceptual Representation
4. Unit Plan
5. Assessment/Evaluation Tool

No textbooks are required for this course.

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