

**SIMON FRASER UNIVERSITY
SUMMER SEMESTER 2008**

**EDUC 416-4
DESIGNS FOR LEARNING: SECONDARY SCIENCE
(E01.00)**

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WEDNESDAY 5:30-9:20 EDB 7500B

**** Class on Wednesday, May 21st is rescheduled to Saturday, May 24th so that EDUC 416 students may participate in a half-day, mini-conference at SFU Harbour Centre. ****

PREREQUISITE: EDUC 401/402

COURSE OBJECTIVES:

- students will examine their own beliefs about teaching & learning science while carrying out a personal inquiry
- students will challenge science teaching methods, study the latest strategies and propose ways to engage students
- students will build a repertoire of practical skills (controversy, inquiry, problems approach, etc.)
- students will develop strategies that encourage participation of all students as well as promote critical thinking
- students will share their thoughts, ideas and experiences with their peers

ASSIGNMENTS AND EVALUATION:

1. Course Notebook-Unit Plan (40%) The notebook-unit plan grows out of each week's topics, the curriculum, and peer discussions. Students will bring a selected unit from the IRP to the second class for development throughout the course.
2. Inquiry-Synthesis Paper (30%) The purpose of this 800-1200 word paper is to synthesize connections in a personally meaningful way between the topics covered and teaching & learning science.
3. Mini-presentations (15%) Students will present one engaging science activity during the course. This may be done independently or in small groups.
4. Participation (15%) Attendance is mandatory. Students are also required to contribute to a course blog and bring in articles on science in the news. The details will be given in class.

*Late assignments must be accompanied by a doctor's note.

REQUIRED READINGS:

Readings will be provided electronically so students must have email accounts and be prepared to access the Internet regularly.

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