

SIMON FRASER UNIVERSITY

**EDUCATION 476-4
DESIGNS FOR LEARNING: NATURAL SCIENCES
(SECONDARY)
(E1.00)**

Intersession, 1992
(May 4 – June 12)
Monday/Wednesday, 5:30 – 9:20 p.m.
Location: MPX 7500F

Instructor: Mrs. Anne Y.L. Lo

PREREQUISITE: EDUC 401/402

TOPIC OUTLINE

A closer look at science teaching and learning
Is the scientific method really "scientific"?
Practical work in science – rationale, aims and approaches
Process skills in science
Students' ideas in science & how they make meanings out of it
Use of concept-mapping in teaching and understanding students' conceptions and misconceptions
Relationships amongst science, society and technology
Assessments in science
Constructing your own science curriculum materials
Analyzing and improving science teaching
Evaluating the science curriculum

READINGS

Required text

Driver, R. (1983). The Pupil as Scientist? Open University Press.

Additional readings will be made available in class.

COURSE REQUIREMENTS

1. A unit plan for the teaching of a selected science topic taking into consideration students' preconceptions and teaching strategies used. (55%)
2. An essay on a selected topic related to some issue on science teaching. (35%)

Details of the assignments will be given at a later date.

NB The remaining 10% of the grade will be based on your performance in class.