

**EDUC 476 - 4 Designs for Learning: Natural Sciences
(Elementary)**
Tuesdays and Thursdays 17:30 - 21:20
Section: E2.00

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PREREQUISITE

Educ 401/402

COURSE DESCRIPTION

In order to teach science effectively, a teacher should have an understanding of how science knowledge is constructed, both privately in the lab and communally in the science community; and the teacher should have a good range of teaching strategies to draw upon for different situations and different students. Hence, the course is intended to provide a framework for designing interesting and relevant lessons appropriate to the science curriculum.

TOPICS

In each lesson, two or more of the topics will be addressed.

- * The nature of science
- * Models of teaching science, including methods of evaluation
- * Science content, including motion, forensics and chemistry (as time allows)

REQUIREMENTS

1. Original experiment - 30%
2. Unit plan - 30%
3. Microteach - 30%
4. Participation - 10%

Detailed descriptions of these assignments is forthcoming.

REQUIRED READINGS (Additional readings will be in a box in the CET.)

- * Ministry of Education, *Integrated Resource Package*.

RECOMMENDED READINGS (Available on 24 hour reserve in the SFU Library.)

- * Joyce, B., Weil, M. & Showers (1992) Models of Teaching. Englewood Cliffs, NJ: Prentice-Hall.
- * Bosak, S.V. (1991) Science Is. Richmond Hill, ON: Scholastic Canada Ltd.
- * Wassermann, S. & Ivany, G. Who's Afraid of Spiders.