

SIMON FRASER UNIVERSITY

**EDUCATION 476-4:
DESIGNS FOR LEARNING: NATURAL SCIENCES
(D1.00)**

Spring Semester, 1992
(January 6–April 3)

Instructor: Dr. M. McClaren

Dates as indicated below

Location: S.F.U. Tele-Learning Centre
Okanagan College, Kelowna

PREREQUISITE: EDUC 401/402

SCIENCE EDUCATION IN A WORLD OF CHANGE

Simon Fraser University's Faculty of Education will offer Education 476, Designs for Learning, Natural Science, at the Kelowna Tele-Learning Centre. The course will be one semester in length, starting in January, 1992. In order to make it possible for teachers and others interested in science education to take this course it will be offered in a Saturday Intensive format, on six Saturdays during the semester. The dates for the course will be:

- * Saturday, January 18, 1992
 - * Saturday, February 1, 1992
 - * Saturday, February 15, 1992
 - * Saturday, February 29, 1992
 - * Saturday, March 7, 1992
 - * Saturday, March 28, 1992
- * School spring break is from March 14–22.

Each class will be held at the S.F.U. Tele-Learning Centre on the campus of the Okanagan College at K.L.O. Road, in Kelowna. Classes will begin at 0900 and end at 1530 each day.

THE CHALLENGE AND OPPORTUNITIES OF SCIENCE IN THE CURRICULUM

Science is seen as a vitally important part of the common curriculum for students from Kindergarten to the 11th year. However many teachers feel less than confident at teaching science and would like to gain increased understanding of both science and of the teaching of Science, especially in the context of making connections among science and other subjects in the curriculum. This course will emphasize the unique nature of Science as a way of knowing while seeking to demonstrate activities and content which can create opportunities to connect Science to other curriculum fields such as Social Studies, Art, Language Arts, Mathematics and the Practical Arts. The course will be taught in a seminar and laboratory approach, emphasizing hands-on activities with simple materials. This course will also apply modern ideas about student learning to the teaching and learning of Science.

The course will explore the relationships among Science, Society, and Technology and will use construction activities such as the making of working models and computer applications to provide teachers with an opportunity to gain new ideas and skills for application to Science Education.

REGISTRATION

Education 476 is a regular course in the Undergraduate Program of Simon Fraser University. It will be of interest to persons seeking degree completion, the Extended Studies Diploma, or general continuing education whether you have been an S.F.U. student before or not. S.F.U. will be using the tele-registration system this semester. If you are interested in this course, please contact the offices of Undergraduate Programs, Faculty of Education, Simon Fraser University, Burnaby, B.C. V5A 1S6 (291-3614) or the Tele-Learning Centre (762-7600). FAX numbers are: 291-3203 or 861-4850.

In order to ensure a place in this program, early admission and/or registration is advised.

READINGS

Required text: Davis, G., & Rimm, S. B. (1989). Education of the gifted and talented (2nd ed.). Englewood Cliffs, NJ: Prentice-Hall.

Additional readings will be made available in the CET in class or on reserve in the library.