

SIMON FRASER UNIVERSITY
EDUCATION 476-4
DESIGNS FOR LEARNING: NATURAL SCIENCES
(ELEMENTARY)

(D2.00)
(Cat. #20681)

Summer Session, 1993
(June 28–August 6)
Monday/Wednesday
8:30 a.m.–12:20 p.m.
Location: MPX 7500 Front

Instructor: Jim Wiese
Office: MPX 9508
Telephone: 291-5997

PREREQUISITE: EDUC 401/402.

COURSE DESCRIPTION

This course is designed for all—no special knowledge of science is required. The course will examine what science is and why we teach it. It will introduce a series of models of teaching that are appropriate for science lessons. Participants will learn a variety of specific activities that they will be able to use in the classroom and will be introduced to other resources that they can call upon in the future. The course will balance theoretical considerations with practical classroom concerns. Activities will be from physical, biological and earth/space sciences.

During the course we will consider the following:

- Issues and problems in science teaching
- Learning theory related to science
- Instructional strategies for science teaching
- Short and long term planning for science teaching
- Student assessment and evaluation in science
- Science teaching and the Year 2000 program

COURSE REQUIREMENT

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| • Mini unit plan or theme study of 5–8 lessons in science. | 40% |
| • Demonstration lesson presented to the Education 476 class as if this were your own class at your school | 20% |
| • Reflective journal for the course | 20% |
| • Class assignments and participation | 20% |

Full details of all requirements will be given out during the first week of the course.

REQUIRED TEXTS

Wassermann, Selma & Ivany, George. (1988). *Who's Afraid of spiders?* New York: Harper Collins Publishers.