

**SIMON FRASER UNIVERSITY  
SUMMER INTERSESSION 2005**

**EDUC 476-4  
DESIGNS FOR LEARNING: ELEMENTARY SCIENCE  
(D05.00)**

GaChing Kong  
email: ga\_ching@hotmail.com

Monday/Thursday 12:30-4:30  
Mount Currie, T'zil Learning Centre

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**PREREQUISITE:** EDUC 401/402

**DESCRIPTION**

This course is intended for emerging educators who wish to approach science from a “decolonizing” perspective. The course will begin with a critical discussion of the history of Western Science and its often unquestioned preeminent place in schooling and society at large. Students will discuss traditional knowledge and indigenous ways of “coming to know” as legitimate knowledges within the elementary science classroom. We will look closely at the reality of teaching science from a bi-cultural perspective that engages both the expected outcomes of the BC science curriculum as well as traditional knowledges in our diverse classrooms. Students will leave the course (hopefully) inspired to teach science from an ethical framework that begins with our place on the land and an overall respect for life.

**Important Dates:**

- Please note there will be an overnight field-trip June 5 and 6th. Students will need to be prepared to put this time aside as a part of the course requirements.
- There is no class May 23.

**Requirements:**

In-class assignments and participation required to pass the course

Position paper	15%	due May 16
In-class lesson plan	15%	as assigned
Field journal and reading responses	25%	due June 6
Portfolio of learning	45%	due June 6

**Required Readings**

- Cajete, G. (2000) Native Science: Natural laws of interdependence. Clear Light Publishers, Santa Fe, New Mexico. (ISBN 1-57416-041-9)

- Stephens, S. (2000) Handbook for culturally responsive science curriculum. Alaska Native Knowledge Network, USA. (available at [www.ankn.uaf.edu/handbook/handbook.pdf](http://www.ankn.uaf.edu/handbook/handbook.pdf))
- Science K – 7 Integrated Resource Package. (1995 / 1999) Ministry of Education, British Columbia (available at [www.bced.gov.bc.ca](http://www.bced.gov.bc.ca))
- Educ 476-4 Courseware Package (available in class)

**Helpful Texts:**

- Bloom, Jeffrey (1998) Creating a classroom community of young scientists: a desktop companion. Irwin, Toronto. (ISBN 0772525145)
- Henley, T. (1996) Rediscovery: Ancient pathways – new directions. Western Canada Wilderness Committee. Vancouver, BC. (ISBN 1551050773)
- Pojar and McKinnon (1994) Plants of Coastal British Columbia. Lone Pine Publishing, Vancouver, BC. (ISBN 1551050420)
- Tuhiwai Smith, L. (1999) Decolonizing Methodologies. Zed Books, New York. (ISBN 1856496236)
- Turner, N. (1995) Food plants of coastal peoples. UBC Press, Vancouver, BC. (ISBN 0774805331)

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