

Quantitative Approaches to Environmental Education

Education 454

Section: D200

Term: 2013 Summer

Instructor: Veronica Hotton
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Office Hours by Appointment

Time: Tuesdays 8:30 am to 12:20 pm
Location: EDB 7610

Discussion Topics: Integrating mathematical, scientific and socio-cultural methods and processes of learning across the curriculum and in teaching practice. Students will experience and apply approaches that are situated in the practices of environmental and social scientists through modeling, simulation and evaluation. Quantitative.

Grading: Assignments and Assessment:

Design, examine, and share quantitative environmental education (EE) curriculum & lesson plans (50%).

Evaluate, create, and share an archive of quantitative EE resources (40%).

Attend, appraise, and share findings of quantitative EE events (10%).

Accumulate a log of reading notes, class experiences, reflections, and questions (0%; formative assessment).

Required Texts: Custom Courseware from SFU Bookstore. Carson, Rachel. 1962/2002. Silent spring. 40th Anniversary Edition. Boston: Mariner. ISBN-13: 978-0-618-24906-0.
Leopold, Aldo. 1949/1966. A Sand County Almanac with essays on conservation from Round River. New York: Ballantine Books. ISBN-13: 978-0345345059

Louv, Richard. 2008. Last child in the woods: Saving our children from nature-deficit disorder. Updated and Expanded ed. Chapel Hill, NC: Algonquin Books. ISBN-13:

978-1565126053. Choose one of the following based on your teaching area:

Elementary, Grades K-5: Grant, Tim, and Gail Littlejohn, eds. 2005. Teaching green: The elementary years, hands-on learning in grades K-5. Gabriola, B.C: New Society Publishers. ISBN-13: 978-0-86571-534-9.

Middle-school, Grades 6-8: Grant, Tim, and Gail Littlejohn, eds. 2004. Teaching green: The middle years, hands-on learning in grades 6-8. Gabriola Island, B.C: New Society Publishers. ISBN: 0-86571-501-7.

High-school, Grades 9-12: Grant, Tim, and Gail Littlejohn, eds. 2009. Teaching green: The high school years, hands-on learning in grades 9-12. Gabriola Island, B.C: New Society Publishers. ISBN-13: 978-0-86571-648-3.

Recommended Texts:

Materials/Supplies:

Prerequisite/Corequisite: EDUC 401 and EDUC 402 or corequisite EDUC 403.

Note: Students who have completed EDUC 452 may not complete this course for further credit

Notes: Students in all Faculty of Education courses are encouraged to review policies pertaining to academic integrity available on the Undergraduate Programs website:
http://www.educ.sfu.ca/ugradprogs/student_resources/index.html

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This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.