

Lakehead University: Department of Geography

**Geography/Environmental Studies 4411: Water Resources Management**

Lectures/Seminars: Tuesday and Thursday

Time: 1130 – 1300

Room: RC 2003

Professor: Graham Saunders

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Office hours: Tuesday 1000 to 1100 and 1430 to 1530 in RC 2001  
(Or by appointment)

**Course content**

**Session: Winter 2017**

This course provides an overview of water issues with reference to the connections between water and social needs such as food, energy production, economic activities, transboundary water conflicts and co-operation and human health. Topics include the qualities, values, and uses of water — consumptive and non-consumptive; economic and environmental; some major regional and global water management issues; factors affecting water supply reliability and challenges to maintain and improve long-term quality and ways domestic, industrial, and agricultural water users can conserve water. Major themes include water supply, water quality, hydropower and flood control. Water resources management will be the focus of lectures, class exercises and tests and featured in seminars. The term research project may either be on a Canadian topic or on a more theoretical topic with international examples

**Various assigned readings, especially from**

Bakker, K., Ed. (2007). *Eau Canada: The Future of Canada's Water*. Vancouver: UBC Press  
(Available in Library).

**Course Evaluation**

Five (5) Assignments/Briefings (5 x 4)	.....	20
One planning exercise	.....	10
Midterm:	.....	30
Independent Research Project: (Proposal, Abstract, Paper)	.....	40

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## **Water Resource Management: Geography/Environmental Studies 4411**

Topics for discussion for the first class on January 10 (at 1130 in RC 2003) include Design/Goals/Expectations for the course

Course content

Seminars in conference format

Tests/exams

Guest speakers

Field trips

The mid-term test will be a combination of multiple choice and paragraph written answers, and will cover the content in course lectures, seminars, and readings.

### **VIDEO OF DAVID SCHINDLER'S PUBLIC LECTURE ONLINE**

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A video of a public lecture by David Schindler (recorded on June 18, 2014) in Waterloo, Ontario is available on the Water Institute's YouTube channel. The lecture was titled *Canada's Freshwater in the 21st Century* and is about 61 minutes in duration.

[David Schindler Lecture Video](#)

Follow up from first meeting of **Water Resource Management: Geography/Environmental Studies 4411** (January 10)

### **Water news**

The bulletin board outside in the hall will be used for posting relevant news that has application to our course. Take a look and feel free to post items when you come across them. I will probably post dates and times of events, webinars and other opportunities that may be of interest (although not necessarily related directly to the course).

### **Field trip**

January 26, 2017: Atlantic Avenue Water Pollution Control Plant (WPCP) as discussed in class.