

Lakehead University: Department of Geography and the Environment

Geography/Environmental Studies 4411: Water Resources Management

Lectures/Seminars: Tuesday and Thursday

Time: 1430 – 1600

Room: RB 3026 (subject to change)

Professor: Graham Saunders

E-mail: graham.saunders@lakeheadu.ca

Office hours: Tuesday and Thursday 1300 to 1400

Office TBA

(or by appointment)

Course content

Session: Winter 2018

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) or online

Course Evaluation

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

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A weekly schedule will be posted as soon as possible, after details about guest speaker(s) and a field trip are known.

Assignment 1

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. (More details in class and via <Class Email>)

[David Schindler Lecture Video](#)

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 2018: Atlantic Avenue Water Pollution Control Plant (WPCP) OR
Bare Point Water Treatment Plant