

**Instructor: Graham Saunders**[gvsaunde@lakeheadu.ca](mailto:gvsaunde@lakeheadu.ca)**Lecture Times and Place:** Monday and Wednesday: 2:30 – 4 pm ATAC 2006

**CONTENT:** Lake Superior is the largest body of fresh water in the world and a dominant feature in the geography of Northwestern Ontario. Most people in this course are acquainted with the geological history of the Basin and geomorphic processes that follow the last ice age. These events and processes will be reviewed.

Lake Superior and connected waterways have provided trade routes for thousands of years. We will examine early travel and commerce, and more recent development based on mining, forestry and shipping of resources.

Topics in the final weeks of the course will focus on recent historical events, economic developments, climate change and contemporary issues.

**PAPER AND PRESENTATION:** Each student will prepare a presentation and paper. A list of topics, historical and contemporary, will be provided, although students have the option of choosing their own topic.

The presentations will commence in week four or five. They will be about 20 minutes in length. We will discuss the presentation format. I think a “Conference” style serves several purposes including a “dress rehearsal” for future potential presentations such as academic seminars or defending a thesis.

The paper will be submitted a week after their presentation. The paper is to be 2,000-2,500 words in length. This allows for refinement of the paper based on feedback from the presentation.

The presentation and paper must do more than summarize topic - critical analysis is expected.

We will discuss this in more detail in class. Questions regarding the topics or ideas for new topics should be discussed early in the term.

People in this course will have a role in designing a course that captures some of the “essence” of the greatest lake in the Great Lakes system. There will be no formal examination. There will be in-class tests based on lecture, guest speakers and seminar material. Research topics will be discussed when we meet on Day 1, September 7.

## Lecture Schedule (*subject to revisions*):

- The scheduling of these topics could change according to when guest speaker(s) are available and other circumstances
- It is not a definitive list. Topics will be added/deleted if needed.

Dates	Monday	Wednesday
<b>Sept 7</b>	No class	Course Introduction Younger Dryas (Intro)
<b>Sept 12 &amp; 14</b>	Lake Superior Basin Geomorphology Glacial lakes and the Younger Dryas	Archaeological Record Human History
<b>Sept 19 &amp; 21</b>	Historical Treaties Water Diversions	International Joint Commission The "Seaway"
<b>Sept 26 &amp; 28</b>	The "New" Lake Superior (maybe) Great Lakes Forum (Sept. 27-29) Contemporary Agreements	Recent economic history
<b>Oct 3 &amp; 5</b>	Guest Lecture: Rob Stewart:	Lake Superior Weather Features and Climate Change
<b>Oct 10 &amp; 12</b>	Reading week	Reading week
<b>Oct 17 &amp; 19</b>	Guest Lecture: Julee Boan	MIDTERM
<b>Oct 31 &amp; Nov 2</b>	Seminar Sessions	Changes in Lake dynamics (examples include seasonal temperature and ice cover duration) and changes in water levels
<b>Nov 7 &amp; 9</b>	Weather and climate: Wind and waves	Edmund Fitzgerald
<b>Nov 14 &amp; 16</b>	Seminar Sessions	Contemporary issues
<b>Nov 21 &amp; 23</b>	Seminar Sessions	To be announced

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**Nov 28 & 30**

To be announced

Contemporary issues

**Dec 5**

Lab exercise

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Contemporary issues (some)

- industrial use
- shoreline ownership
- water diversions
- recreation
- invasive species: land and marine
- marine parks/reserves