

UNIVERSITY of TORONTO SCARBOROUGH
December 2016
Department of Physical & Environmental Sciences

Environmental Science EESC18
The Great Lakes: An Introduction to Limnology

North America is endowed with eight of the twelve largest fresh-water lakes in the

circulations, productivity, plankton ecology, food-web dynamics, exotic species invasions, eutrophication-related phenomena and water quality/fisheries management. Specific anthropogenic influences will be illustrated using case studies from the local environment, and students will be allowed to pursue their own interests through a series of short seminars.

Instructors: Maria Dittrich (MD)
Office: ESCB452 (Maria Dittrich)

The course consists of a 2-hour lecture each week; **and** student seminars; and designated readings. Each lecture will be accompanied by either a handout or the lectures will be posted on the web.

Lectures: Thursdays 2 pm – 4 pm **Room:** HW215
Tutorials: Tuesdays 5 pm – 6 pm **Room:** MW130
Office hours: Tuesdays 1 pm – 2 pm **Room:** ESCB452

Course Grade:	Assignment 1	15 %
	Midterm Exam (in-class)	30%
	Report	15%
	Final Examination	40 %

Prerequisite: EESB03F **Recommended:** EESB02S

N.B. Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. The UTSC AccessAbility

TENTATIVE COURSE OUTLINE

Date		Lecture Topic	Lecturer	Tutorial
Jan-5	1	Introduction: Structure of Aquatic Ecosystems	MD	
Jan-12	2	Thermal Structure of the Great Lakes	MD	Jan 10 Zach
Jan-19	3	Productivity of Aquatic Ecosystems Carbon and Nitrogen Cycles Assignment 1	MD	Jan 17 <i>Tim</i>
Jan-26	4	Phosphorus Cycle	MD	Jan 24 Zach
Feb-2	5	Food Web, Planktonic Communities	MD	Jan 30 <i>Tim</i>
Feb-9	6	Case studies	MD	Feb 7 Zach
Feb-16	7	Midterm in class	MD	

