

UNIVERSITY OF TORONTO
Ontario Universities Program in Field Biology

Course Title:	Lake Ecosystem Dynamics	
Instructor(s):	Prof. H�el�ene Cyr (helene.cyr@utoronto.ca)	
Dates:	August 21 – September 1, 2017 *arrival on Sunday Aug. 20; departure ~1PM on Friday Sept. 1	
Location:	Harkness Fisheries Research Laboratories, Algonquin Park, ON www.harkness.ca/home.htm	
Cost:	\$900 (\$350 deposit to home university; \$550 balance) Includes: accommodation for 12 nights, board, and all in-course travel. Excluded: Travel to and from Algonquin Park.	
Prerequisites:	First and second year biology courses or introductory physical geography course. NOTE: <i>Physical Demands/Risks</i> Students should come prepared for outdoor physical activity in and around water, rain or shine. Everybody is required to wear a life jacket on boats (provided) and to follow basic safety rules that will be explained at the beginning of the course. Risks are the same as those for any visitor to lakes in Algonquin Park (ranging from insect bites to drowning).	
Enrolment:	15 students (13 reserved for U of T)	
Description:	Two-week summer field course offered at the Harkness Fisheries Research Laboratory in Algonquin Park, Ontario. Students will learn how to collect, analyze and interpret a series of physical, chemical, and biological parameters. We will spend a lot of time on boats and in the water collecting samples, in the lab processing these samples, and on computers analyzing and integrating the data. Field and laboratory exercises will demonstrate how interactions between physical, chemical, and biological parameters are crucial in understanding lake ecosystems. Emphasis will be put on how physical processes (e.g., thermal structure of the lake, surface and internal waves, and currents) affect the distribution of organisms (algae, invertebrates, fish), and biological processes in lakes. Students will also be responsible for completing an independent project based on field/laboratory work.	
Evaluation:	Participation in field and lab activities (individual) Participation in class discussions (individual) Data processing and organization (individual/group) Group presentation of class data Individual presentation of independent project Final paper based on independent project (individual; <i>due one month after end of course</i>)	10% 10% 10% 15% 15% 40%

***\$350 Deposit is due at time of registration.

Tuition at your home institution is *in addition* to any field module costs.

Students who drop a field course should not expect a refund of any field course costs.

Students are encouraged to purchase cancellation insurance if airline tickets are required.

Students are responsible for all fees incurred by the home or host university due to any bounced cheque.