## CARLETON UNIVERSITY Ontario Universities Program in Field Biology

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Course Title:	Fish Ecology and Fisheries: The Science Behind Conservation and
	Management
Instructor(s):	Dr. Chris Elvidge (Carleton University & University of Eastern Finland);
	chris.k.elvidge@gmail.com
Dates:	April 29 – May 12, 2018
Location:	Queen's University Biology Station (north of Kingston, ON: <a href="https://qubs.ca">https://qubs.ca</a> )
Cost:	\$1150 (\$350 non-refundable deposit to your home university; \$800 balance).
	<b>Includes:</b> all accommodations, meals, wi-fi, use of boats and equipment and
	transportation during the course.
	<b>Excluded:</b> Students are responsible for travel to and from QUBS.
	Balance: required by March 15, 2017, payable to Carleton University.
	Students with confirmed registrations will receive emailed instructions on how
	to pay the balance online at a Carleton University website well in advance of
	the deadline.
Prerequisites:	Second or third-year course work in ecology, conservation biology,
	environmental science, geography, or behavioural science/psychology.
	NOTE: Students must be comfortable around water and boats and able to
	work outdoors under variable conditions. All participants MUST, at some
	point, handle live fish.
Enrolment*:	12 (3 reserved for Carleton University)
Description:	Eastern Ontario is home to a diversity of freshwater ecosystems and fish
Boodinptioni	species, providing an ideal backdrop for a field course examining the ecology,
	conservation and management of fish and fisheries. The objective of the course
	is to introduce students to the conceptual foundations of fisheries science and
	aquatic ecology research while providing them with some of the practical skills
	needed for research, data analysis and fisheries assessment through seminars
	and hands-on activities. Students will work in groups with the guidance of the
	instructors to execute their own research projects with the aim of generating
	data to publish in peer-reviewed journals. This will give participants the
	opportunity to experience the scientific publication process. At the conclusion
	of the course, students will be able to collect fish using a variety of gear types
	(electrofishing, seine nets, hoop nets, rod and reel) and safely handle and
	enumerate (identify, measure, tag) a variety of fish species. Students will also
	be able to characterize fish habitat (e.g. snorkeling surveys) to gain insight on
	fish-environment interactions. In addition, students will be exposed to the
	process of experimental design and a variety of research tools used to study the
Evaluation:	behaviour, ecology, and physiology of wild fish.  Oral presentation (20 min + 10 min discussion)  25%
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	Quiz during field course 20%