

QUEEN'S UNIVERSITY
Ontario Universities Program in Field Biology

Course Title:	Plant Sex & Pollination	
Instructor(s):	Sarah Yakimowski (sarah.yakimowski@queensu.ca)	
Dates:	August 20 – September 2, 2017 (2 weeks)	
Location:	Queen's University Biological Station (QUBS - 50km north of Kingston, ON) (http://www.queensu.ca/qubs/)	
Cost:	\$1100.00 (\$350 deposit to home university; \$750 balance). Includes: room and board at QUBS. Local transportation is provided. Balance: due at time of course	
Prerequisites:	Undergraduate course in general biology. Additional course(s) in ecology, evolution and statistics are recommended but not required.	
Enrolment:	12 students (2 reserved for Queen's)	
Description:	<p>Plants exhibit remarkable diversity in reproductive strategy, which is fundamental to the survival and evolution of populations (e.g. selfing/outcrossing, tristylly, gender morphs, phenology). <i>How do plants, with their sessile habit, survive and reproduce each season in the face of unpredictable environmental conditions? What ecological and genetic factors generate and maintain diverse reproductive strategies? How do interactions between plants and insects influence their ecology and evolution?</i> We will consider implications of these questions in the contexts of climate change, biological invasions, and conservation.</p> <p>QUBS and the Rideau Lakes area of eastern Ontario, offer an abundance of habitats and diverse flora. We will take particular advantage of the abundance of flowers and pollinators in wetlands at this reproductively crucial time of year. The first week of the course will involve hands-on field exercises, herbarium collections and a group project. During the second week students will develop and test their own hypotheses based on first-hand observations of plants and pollinators.</p> <p>Students will learn plant identification, specimen preparation, biodiversity surveys, floral morphometrics, pollination biology, and population demographics. We will also focus on strategies for experimental design, statistical analysis (in R), and presentation of results in both group and solo projects.</p>	
Evaluation:	Natural history 'ice breaker' (5 min presentation) Field notebook evaluation Herbarium collection assignment Group biodiversity projects Participation Individual project presentations Individual final reports (10-15 pages; due 4 weeks after end of course)	10% 5% 10% 10% 15% 10% 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.