

**McMASTER UNIVERSITY**  
Ontario Universities Program in Field Biology

<b>Course Title:</b>	<b>Field Entomology &amp; Ecology</b>	
<b>Instructor(s):</b>	Marvin W. Gunderman (gundermn@mcmaster.ca; 905-525-9140 x23556)	
<b>Dates:</b>	July 30 – August 12, 2017 (3 units credit)	
<b>Location:</b>	Queen's University Biological Station (QUBS)	
<b>Cost:</b>	\$1,200 (\$350 deposit to home university; \$850 balance) <b>Included:</b> accommodation, meals and supplies. <b>Excluded:</b> travel to/from QUBS, tuition at home university.	
<b>Prerequisites:</b>	A university course in biology, ecology or zoology. A digital camera is required. A DSLR and external flash is preferred. <b>NOTE: Participants must be prepared for moderately strenuous hiking. Hikes may take several hours, sometimes up steep slopes, in very hot weather.</b>	
<b>Enrolment:</b>	5 minimum/12 maximum students (2 reserved for McMaster)	
<b>Description:</b>	<p>Students will learn how to collect, mount, preserve, and identify insects found around the QUBS. Daily collecting trips will be followed by short lectures. The characteristics and ecological importance of various insect orders will be discussed. Each student is expected to compile a synoptic insect collection and a digital image collection. Also, each student will carry out a field experiment or observation on an insect-related phenomenon and then write a species report on that subject.</p> <p>There is no required text for this course but I highly recommend:</p> <ul style="list-style-type: none"> <li>a) Borror and DeLong's <i>An Introduction to the Study of Insects</i> (7th ed.: ISBN 0-03-0968356)</li> <li>b) Steve Marshall's <i>Insects: Their Natural History &amp; Diversity</i> (ISBN 1552979008)</li> </ul> <p>The latter book is a must and it is available on-line for purchase or sign it out from your school's library.</p>	
<b>Evaluation:</b>	Participation Seminar (20 min; prepared in advance) and subsequent discussion Research paper OR Species report (due <u>1 month</u> after end of course) An insect collection of ~150 specimens representing at least 12 different orders (due at the end of the course) A digital collection of ~15 images	10% 15% 25% 45% 5%

\*\*\*\$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.