

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

<b>Course Title:</b>	Field Entomology in Algonquin Park Ontario
<b>Instructor(s):</b>	Dr. David Beresford
<b>Dates:</b>	2018 (2 weeks, May 7 – 19); 0.5 credit
<b>Location:</b>	Algonquin Park, and Peterborough Ontario
<b>Cost:</b>	<p>\$900.00 (HST included) (subject to change if accommodations and rental prices are altered)            \$350.00 deposit to home university with application</p> <p>Included: travel to and from study site in Algonquin Park, all meals and accommodation for week 2 at Algonquin Park, lab materials, collecting kits and sampling gear.</p> <p>Excluded: tuition at home university. Accommodation and meals for the week at Trent University.</p> <p>For out-of-town students, there is an additional cost for accommodation (excluding food) during week 1:            \$480.00, (HST included)</p> <p>Students should expect to pay about 25\$/day for food.</p>
<b>Prerequisites:</b>	Students should normally be entering the 3rd or 4th year of a Biology Honours
<b>Enrolment:</b>	15 maximum students (6 for Trent)
<b>Description:</b>	<p>This field course will cover basic entomological sampling methods, field techniques, research methods, and identification of the insects in Algonquin Provincial Park, Ontario. In the first week students will learn methods at Trent University, with daily field trips, and in the second week conduct studies at Algonquin Park. Established in 1893 as a wildlife sanctuary, it is one of the largest parks in Ontario (7,630 km<sup>2</sup>), biologically diverse, and an ideal place to study insects. A largely undisturbed region, habitats are forested, marsh, fen, aquatic, and terrestrial open country and woodlands. Students will produce a research proposal, design their study, and collect data and specimens to produce a written paper at the end of the course.</p>
<b>Evaluation:</b>	<p>Field book (data log) (25%)</p> <p>Field quizzes (ID, sampling methods) (20%)</p> <p>Research project and written paper (35%)</p> <p>Focussed insect collection (20%)</p> <p><b>TOTAL: 100</b></p>

\*\*\*\$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.

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

<b>Course Title:</b>	<b>Ecological Monitoring in an Urban Ecosystem</b>										
<b>Instructor(s):</b>	Dr. Laura McKinnon (lmck@glendon.yorku.ca)										
<b>Dates:</b>	Monday May 7 to Sunday May 21										
<b>Location:</b>	Don River Ravine system & surrounding natural areas at Glendon Campus, York University, 2275 Bayview Avenue, Toronto, ON, M4N 3M6										
<b>Cost:</b>	<p>\$350 (\$350 deposit to home university, \$0 balance).  <b>Excluded:</b> Students are responsible for their own transportation costs to and from Glendon Campus and surrounding field sites which will all be located within walking distance of local municipal transportation (TTC). The cost of campus accommodation is not included and is estimated at \$445 for the two-week period. Students should budget approximately \$30/day for food if using the campus food services. Please contact the Instructor at least 1 month before the start date to reserve accommodations. While we prefer students to live on-campus at Glendon residence or the duration of the field course, we recognize that this may not be feasible for some students who may wish to live at home. However, some field course days will begin early in the morning (5am), and run late. The course includes the first weekend.</p>										
<b>Prerequisites:</b>	A university course in Introductory Biology and Ecology										
<b>Enrolment:</b>	20 (14 for York University)										
<b>Description:</b>	<p>This field course is based in the secluded Don River setting of Glendon Campus, which is part of Toronto's extensive ravine system. Local wildlife includes white-tailed deer and coyotes. The course combines short in-laboratory instructional sessions (&lt; 2 hours) with daily field excursions to natural areas in the Greater Toronto Area, where students will master ecological sampling techniques.</p> <p>In-class instructional sessions permit students to establish a strong baseline of knowledge in ecological theory, sampling design, data collection and data analysis. The outdoor field component, which will be held mostly on campus and surrounding areas, will permit students to gain hands on experience in ecological field sampling. We will cover a diversity of field techniques such as; nest searching, bird banding, small mammal trapping, amphibian monitoring, botanical surveys, insect sampling, behavioural observations, and water and soil sampling. The students will then apply the techniques learned to a group research project to be completed within three weeks of the end of the course.</p>										
<b>Evaluation:</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Field exercises (Week 1)</td> <td style="text-align: right;">(20%)</td> </tr> <tr> <td>Research Proposal and Group Presentation (Week 2)</td> <td style="text-align: right;">(20%)</td> </tr> <tr> <td>Dataset and Analysis (due May 28)</td> <td style="text-align: right;">(10%)</td> </tr> <tr> <td>Research Paper Outline (due May 28)</td> <td style="text-align: right;">(20%)</td> </tr> <tr> <td>Final Research Paper (due June 18)</td> <td style="text-align: right;">(30%)</td> </tr> </table>	Field exercises (Week 1)	(20%)	Research Proposal and Group Presentation (Week 2)	(20%)	Dataset and Analysis (due May 28)	(10%)	Research Paper Outline (due May 28)	(20%)	Final Research Paper (due June 18)	(30%)
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