

Field Camp: EESC16H3 and EESD07H3**Summary:**

A 5-day field camp (**2<sup>nd</sup> May 2022 to 6<sup>th</sup> May 2022**) will cover a broad range of field-based geology techniques, including mapping, navigation, data recording, and logging. These techniques, introduced in previous courses, are applied to real exposures. At present, the course is to be in person, but may be subject to change due to the pandemic.

The overall theme of the camp will be the geology of the Niagara Escarpment, with the majority of the field work taking place in Hamilton, Ontario. Additional stops will be at Scarborough Bluffs, Niagara Gorge, and Port Colborne quarry. The course will require 2 overnight stays: Niagara (3rd May 2022) and Hamilton (4th May 2022).

**Instructor:** Prof Phil Heron ([Philip.heron@utoronto.ca](mailto:Philip.heron@utoronto.ca))

**Enrolment:** Limited enrolment. This course is worth a half credit. All academic requirements will be completed in the field prior to returning to Toronto. Due to the logistical costs of the field camp, there will be an additional payment of \$50 to register for the course. A link will be available to pay this ground and transport cost in early January. The deadline to pay the \$50 additional payment will be 31<sup>st</sup> January 2022. Please contact instructor with any questions.

**Day Planner:**

There will be a mandatory meeting in late January/February to discuss logistics, equipment required, expectations, and a pre-camp essay. However, the majority of the work will be conducted between 2<sup>nd</sup> May and 6<sup>th</sup> May 2022:

| <b>Day</b>  | <b>AM:</b>                                    | <b>PM:</b>                         | <b>EVE:</b>             |
|-------------|-----------------------------------------------|------------------------------------|-------------------------|
| Mon 2/5/22  | Practical at Bluffs                           | Practical at Bluffs                | UTSC                    |
| Tue 3/5/22  | Port Colborne quarry                          | Port Colborne quarry/Niagara Gorge | Niagara overnight stay  |
| Wed 4/5/22  | Devil's Punchbowl/Sam Lawrence Park, Hamilton | Sam Lawrence Park, Hamilton        | Hamilton overnight stay |
| Thur 5/5/22 | Chedokee Radial Trail, Hamilton               | Chedokee Radial Trail, Hamilton    | UTSC                    |
| Fri 6/5/22  | UTSC group work                               | UTSC Group work and presentations  | UTSC                    |

**Grading:**

**Field notebooks:** 40% (10% for each day).

**Day quizzes:** 20% (5% quiz each day).

**Group presentations:** 15% (15-minute group presentations).

**Field Slips:** 15% (5% each for handing in work on day 2, 3, and 4).

**Pre-course essay:** 10% (short essay on a geological topic related to the region).

**Group presentations:**

The final afternoon will see a 15-minute group presentation on one of the aspects of the field course.

**Pre-course essay:**

During the winter semester, students will be asked to work on a short 2-page essay related to a particular area of the course (e.g., trilobites of the Ordovician, depositional environment during the Ordovician, the origin of the Niagara Escarpment, etc). The essay will be handed in before the end of the winter term.

**Transport:**

It is estimated that there will be a total of 20 students for EESC16/EESD07, alongside a course leader (Prof Phil Heron) and a TA. This transport will be covered by the course and through the \$50 additional fee. On Tuesday, the bus will take us to a supermarket for supplies. On Wednesday, a supermarket will be within walking distance of our accommodation. A 24-seater bus and driver would be required for the following trips:

| <b>Day</b>  | <b>Travel:</b>                                                                            | <b>Bus time:</b> |
|-------------|-------------------------------------------------------------------------------------------|------------------|
| Mon 2/5/22  | Meet at Bluffs (students make own way there and back)                                     | None             |
| Tue 3/5/22  | UTSC → Port Colborne quarry Quarry → Niagara Gorge →<br>Niagara Accommodation             | >3h              |
| Wed 4/5/22  | Niagara Accommodation → Devil's punchbowl → Sam<br>Lawrence Park → Hamilton Accommodation | <2h              |
| Thur 5/5/22 | Accommodation → Chedoke Radial Trail → UTSC                                               | <2h              |
| Fri 6/5/22  | UTSC                                                                                      | None             |

**Accommodation:**

Due to traffic in and around Toronto, accommodation in Niagara and Hamilton will be needed on the Tuesday and Wednesday evening. Students will be required to share rooms in order to keep the costs affordable. More details on accommodation will be provided at the logistics

meeting in late Jan/Feb. If you have any questions or concerns regarding accommodation and overnight stays, please contact Prof Phil Heron.

### **Meals:**

Students will have to pay for their own food during the field camp. Monday to Thursday will require students to bring a packed lunch with them to have in the field. On Tuesday and Wednesday evening, students will be in accommodation in Niagara and Hamilton, and will have to purchase and make their own meals while away. The table below provides an overview of meals that will occur while in field.

| <b>Day</b>     | <b>Location daytime:</b> | <b>Location evening:</b> | <b>Breakfast:</b>     | <b>Lunch:</b>         | <b>Dinner:</b>        |
|----------------|--------------------------|--------------------------|-----------------------|-----------------------|-----------------------|
| Mon<br>2/5/22  | Bluffs                   | Home                     | -                     | Packed lunch in field | -                     |
| Tue<br>3/5/22  | Port Colborne/Niagara    | Niagara                  | -                     | Packed lunch in field | Dinner in Niagara     |
| Wed<br>4/5/22  | Niagara/Hamilton         | Hamilton                 | Breakfast in Niagara  | Packed lunch in field | Dinner in Hamilton    |
| Thur<br>5/5/22 | Hamilton                 | Home                     | Breakfast in Hamilton | Packed lunch in field | -                     |
| Fri 6/5/22     | Campus                   | Home                     | -                     | On campus             | Pizza dinner provided |

### **Further information:**

Due to the pandemic, the setting up of a field course has had some logistical challenges and over the coming months there may be changes to the above plan. Any changes will be outlined to the students with as much consideration as possible. Thank you for your patience in advance, and if you have any questions please contact course instructor Prof Phil Heron ([Philip.heron@utoronto.ca](mailto:Philip.heron@utoronto.ca)).

17<sup>th</sup> December 2021