

## ERTH 2802, FIELD GEOLOGY I – 2019 SYLLABUS

**Course description:**

ERTH 2802 Field Geology I [0.5 credit]. Field analysis using geological, geophysical and computational methods leading to the interpretation of the origins of geological features and processes.

Prerequisite: ERTH 2406 and permission of the department. Field work for two weeks off campus. A supplementary fee may apply.

**Dates:** Saturday April 28 – Friday May 10, 2018

**Location and logistics:** We will the study geology in the Grenville Province, and adjacent rocks, in the vicinity of Kaladar and Cloyne, Ontario. Accommodation and transportation are provided. Accommodation will be in cabins at Lancaster’s Resort (1045 Lancaster Ln., Cloyne, ON, K0H 1K0). Breakfast and dinner will be provided at the resort lodge. Students are responsible for lunch and snacks; we will shop at a local grocery store for provisions.

**Course Learning Outcomes:**

1. Implement best safety and best field work practices; work effectively (e.g. independently or with others).
2. Locate, orient, describe, characterize, classify, document and map geological and geophysical data, at all scales of observation, using appropriate tools and techniques.
3. Identify, classify, describe and document minerals, rocks, textures, and structures of sedimentary, igneous, and metamorphic origin
4. Interpret and synthesize geological and geophysical field data from different sources.
5. Distinguish between observations and interpretations. Evaluate the limitations of both field and published data with respect to incomplete or contradictory data; evaluate interpretations.
6. Create a viable geological map with a legend and geological history.
7. Relate conclusions and implications to geological questions, resource geology, natural hazards and other topics relevant to society.
8. Communicate geological data, interpretations and results effectively in written and verbal form to peers and instructors; participate in discussions with peers and instructors.

**Course requirements and evaluation:**

It is expected that you will bring the lab and field manual that you have made in ERTH 2406 to field school. There will be several one-day or multiday projects that include measurement and analysis of geological structures, and preparation of geological maps and reports. Course evaluation will be based on assignments, reports, presentations, oral exams and a field exam. The order and tentative schedule of assignments may change during the field school due to weather or other circumstances. All components of the course must be completed in order to pass the course.

<b>Course Components:</b>	<b>Individual or pairs</b>	<b>Value</b>
<b>Assignment 1.</b> Investigating, documenting and interpreting rocks in the field	individual	5%
<b>Assignment 2.</b> Defining lithological map units and creating a legend for a geological map	individual	10%
<b>Assignment 3.</b> Creating a base map, geological map & legend, as well as describing rocks and interpreting geological history.	individual	10%
<b>Assignment 4.</b> Ore Chimney mapping project		
Map and legend	pairs	25%
Report with geological setting, lithology, geophysics, structure, metamorphism, and geological history	Individual	25%
Oral exam	Individual	5%
<b>Assignment 5.</b> Capstone mapping project	Pairs	20%

## CODE OF CONDUCT

Participants are required to read and sign a Code of Conduct in front of a designated University witness before leaving Carleton University. Breaches of compliance with the EARTH 2802 Code of Conduct may result in immediate disciplinary action, including but not limited to removal from the EARTH 2802 field school and/or premises of Lancaster's Resort and failure of EARTH 2802.

## ACADEMIC INTEGRITY AND PLAGERISM

Please review and familiarize yourselves with Carleton's Student Academic Integrity Policy:

<https://carleton.ca/secretariat/wp-content/uploads/Academic-Integrity-Policy.pdf>

The University has adopted a policy to deal with allegations of academic misconduct. The Academic Integrity Policy:

- describes those actions and behaviours which violate Carleton University's standards of academic integrity;
- defines the responsibilities of various offices and individuals in upholding the policy;
- specifies the procedures and processes to be followed when an allegation of violating these standards has been made against a student;
- specifies the sanctions that may be applied to a student who has been found to have violated these standards; and,
- describes the appeal and petition processes open to students who feel they have not been treated fairly under this policy.

The Policy is strictly enforced and is binding on all students.

The instructor is required to report all incidents (or suspected incidents) in violation of the policy directly to the Dean. All work handed in must be your own work. Plagiarism (i.e. presenting another's ideas, arguments, words or images as your own), violation of exam rules, misrepresentation of facts for any academic purpose, using unauthorized material, misrepresentation, fabricating or misrepresenting research data, unauthorized co-operation or collaboration, or completing work for another student are viewed as being particularly serious, and the sanctions imposed are accordingly severe. Students who infringe the Policy may be subject to one of several penalties including: suspension from a program; withdrawal from courses; a grade of zero, a failure or a reduced grade for a piece of academic work; completion of a remediation process, etc.

## ACADEMIC ACCOMMODATIONS

### Requests for Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

### Pregnancy obligation

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: [carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf](https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf)

### **Religious obligation**

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: [carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf](https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf)

### **Academic Accommodations for Students with Disabilities**

If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. [carleton.ca/pmc](https://carleton.ca/pmc)

### **Survivors of Sexual Violence**

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and its survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: [carleton.ca/sexual-violence-support](https://carleton.ca/sexual-violence-support)

### **Accommodation for Student Activities**

Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. <https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf>

For more information on academic accommodation, please contact the departmental administrator or visit: [students.carleton.ca/course-outline](https://students.carleton.ca/course-outline)