

**DEPARTMENT OF EARTH SCIENCE
UNIVERSITY OF TORONTO MISSISSAUGA**

**ERS425H5F LEC0101
Geology of North America
Course Outline - Fall 2018**

Class Location & Time

Instructor Jochen Halfar
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Office Hours Tu11-12, We11-12
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Course Web Site

Co-Instructor Lindsay Schoenbohm
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Course Description

This course will provide students with a first-hand exposure to geologic outcrops in North America, where knowledge gained during classroom instruction throughout their studies can be applied to textbook examples of a variety of geologic features. The course is structured around one major field trip during fall break, plus preparatory work. There is a nonrefundable fee associated with this course beyond tuition. Students must register on ROSI, on a first-come first-serve and non-refundable deposit basis. The deposit must be received by the Department within one week from the first day of enrollment or the student will be dropped automatically from the course. Students should contact the Department by March of the academic year preceding the course to find out more details about the specific field trip plans.

Prerequisite: Enrolment in ERS Major or ERS Specialist or Geology Specialist Program, 1.5 credits at ERS or ESS 300 level

Exclusion: ESS420H1 (SCI E)

Distribution Requirement: SCI E

Assessment and Grading

Type	Description	Due Date	Weight
Presentations	Special Topic Field Presentation	On-going	20%
Assignment	Written handout for Special Topic Field Presentation	2018-09-28	20%
Assignment	Field Report - Geologic History of the Rocky Mountains	2018-11-05	30%
Assignment	Field exercises	On-going	30%
Total			100%

Procedures and Rules

Penalties for Lateness

Late penalty on assignments: 20% of full mark/day after deadline for written handout and field report, presentation is to be done at field stop. Some exercises will be due before we leave the field stop, while others may be due the next morning by 8 am. Deadlines will be clearly indicated for each exercise.

Missed Term Work

Within one week of the date of the missed work, students should submit to the course instructor a signed letter explaining the reason for their absence. The letter should include the student's name, phone number, email address, student number and lab/tutorial section number as well as the date of and the description of the missed work. A doctor's note or other appropriate documentation regarding the absence should be stapled to the letter.

If the explanation for the missed work is deemed reasonable after verification of the documentation, the final exam mark will be used as the mark for the missed work. If the explanation is considered unreasonable or no letter is submitted within one week of the missed work, a mark of zero will be assigned for the missed work.

Email Contact Policy

Check your @mail.utoronto.ca email accounts regularly. All official communication from the university to students regarding class assignments, courses, grades, academic administration, and other matters *are sent only to email addresses that end in @mail.utoronto.ca*. Messages from other email providers can experience problems in both sending to and receiving from @mail.utoronto.ca addresses.

It is mandatory for all students to use their @mail.utoronto.ca email address to ensure that they do not miss important course information, requests, or announcements regarding academic matters.

In all email correspondence regarding this course, please note the following:

1. Please send email only from your @mail.utoronto.ca account.
2. In the Subject line of your message, please include the course code and a brief description of the topic, e.g. "[Course code] - Request for an appointment".
3. Please include your full name and student number in all correspondence.
4. Please consult the course syllabus and course website before sending questions by email.

Other Information

Special topic handout (20%)

You will be required to prepare a handout on a special topic. Topics will be presented and assigned during the first class organizational meeting in early September. You should research your topic, collecting at least 5 scholarly references. Prepare a one-page, double-sided handout to be included in the field trip guidebook. You may use figures and graphics in whatever way you'd like to most effectively and creatively convey the key information about your topic to your peers. Evaluation will be based on correctness of information and effectiveness of conveying that information. You need supply only one copy, electronically, by the deadline, September 28 at 5 pm.

Special topic presentation (20%)

Each day of the field trip, one or two students will present on their special topic. Presentations will be 10-15 minutes long. Presentation will be given in the field, so the only aids available will be the prepared handout on the topic. Evaluation will be based on correctness of information and effectiveness of conveying that information. Students will be notified in advance of the day and approximate timing of the presentation.

Field exercises (30%)

Students will complete approximately one field exercise per day. Assignment length and difficulty will vary - they may be based around logging a section, for example, making fault or fold measurements, drawing a sketch of an outcrop, etc. Marking will be as follows: 2 points for neat, complete, accurate assignments. 1 point for adequate assignments. Some exercises will be due before we leave the field stop, while others may be due the next morning by 8 am. Deadlines will be clearly indicated for each exercise.

Final report (30%)

After the field trip, students will write a geologic history of the Canadian Rockies, from the Shuswap Metamorphic Complex to the Rocky Mountain Foreland at Dinosaur Provincial Park. Students may make use of their field guide, presentation handouts, field exercises, field notes, and any scholarly sources they choose. Reports will be evaluated based on correctness and completeness of information, effective organization, and quality of writing. Reports are due approximately three weeks after our return from the field, on November 5, 2018. Length 10 pages (12 point, 1.5 spaced) plus or minus 1 page, departure from this length restriction will result in 10% penalty for each page (this includes figures and list of references cited, but does not include cover page). A maximum of 6 figures can be included as part of the text (no individual figure may be larger than one third of a page).

A word on plagiarism

Plagiarism is an especially challenging subject in the framework of geological fieldwork, which is often done in groups. Be advised that even when working in a team, the work in your exercises should be your own. Even if you work in a team, your reports are an individual assignment. Any copying, borrowing, sharing, plagiarism or similar efforts are considered an academic offence, and will be treated as such, i.e., the matter is brought to the attention of the Department Chair or the Dean's Office. See the Academic Calendar under Rules and Regulations: www.artsandscience.utoronto.ca/ofr/calendar/rules.htm#behaviour. If you feel unsure about the issue, read the following article: www.utoronto.ca/writing/plagsep.html and test your judgment here: <http://www.ecf.toronto.edu/~writing/interactive-plagiarismtest.html>. If you still have questions, ask your instructor before submitting your exercise.

Travel

We will fly together to Calgary on Friday, October 5, and will return together on Saturday, October 13. While in the field we will travel in mini-vans with instructor drivers. We will stay at hotels (in Calgary and Canmore) and in a hostel (at Lake Louise). Full travel details, including contact information for instructors and hotels, will be provided prior to the trip. Food is on your own, although some hotels will provide a continental breakfast, and we will likely shop for lunch as a group. We will ensure that you can access local restaurants or a grocery store for dinner.

Working hours

All exercises start at 8 AM. You must bring raingear (we will not return to the hotel because of deteriorating weather), warm clothing, and sufficient water to work until 6 PM. Evenings are typically spent working on assignments, or on your report.

Last Date to drop course from Academic Record and GPA is November 8, 2018.