



COURSE OUTLINE

1. **Course:** GLGY 707, Geology & Geophysics West Canada - Fall 2019

Lecture 01: MF 14:00 - 14:50 in ES 147

Instructor	Email	Phone	Office	Hours
Dr Eva Enkelmann	eva.enkelmann@ucalgary.ca	403 220-5852	ES 518	By Appointment

GLGLGY 707, Geology and Geophysics of Western Canada

L01:MoFr, 14:00-14:50, ES 147

Weekly labs (=discussions): W 14:00-15:50

Instructor: Dr. E. Enkelmann, Office: ES 518, Tel. No. 403-220-5852, e-mail address:eva.enkelmann@ucalgary.ca

Office Hours: after class and to be arranged by email

Teaching Assistant: Kelley Fraser, Office: ES 526; kelley.fraser@ucalgary.ca

Geoscience Department ES 118, 403-220-5184, geoscience.ucalgary.ca, geoscience@ucalgary.ca

Course Site:

D2L: GLGY 707 L01-(Fall 2019)-Geology & Geophysics West Canada

Note: Students must use their U of C account for all course correspondence.

There is no required textbook for this course.

2. **Requisites:**

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

Prerequisite(s):

Fourth-year standing and consent of the Department.

Note(s):

- Open only to graduate students in the Department of Geology and Geophysics and compulsory for beginning doctoral students in Geology.

Open only to graduate students in the Department of Geoscience

3. **Grading:**

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Component(s)	Weighting %	Date
Required reading and discussion participation, plus field trip	30	
Topic presentation and discussion leader	40	
Research Proposal, presentation and defense	30	

This course will focus on the structure and dynamics of the Canadian Cordillera as revealed by a range of geologic and geophysical investigations. The format of the course includes weekly presentations and discussions about various topics about the Canadian Cordillera. The material covered in the class will come from key research papers about the Canadian Cordillera. For this graduate level course, each student will participate in discussions about these papers and be responsible for leading the discussion during one week of the semester.

The field trip will incorporate exercises. You will complete the exercises and participate in the trip by asking questions and engaging in discussion. Your grade for the trip will be determined using your field trip exercise booklet, as well as from your participation in the discussions. Make sure that you have a notebook, sharp pencil, hand lens, hammer, and pocket knife (to test hardness).

DISCUSSION LEADER (40%)

Papers relevant to the topics covered about the Canadian Cordillera will be assigned at the beginning of the semester. On Mondays of each week one student discussion leader will be responsible for presenting a summary of that week's topic and providing an overview of any necessary background information about the paper for that week. The class will then discuss the paper and topic during the lab sections (Wednesday). Together with the class, the discussion leader will develop a summary of the paper and three to five questions related to the topic during Wednesday's lab. This summary and the questions will be turned in as part of the discussion leader's grade for the week.

The format of the course includes a weekly visitor (usually another professor in the department) attending class on Fridays to provide an expert's insight about that week's topic. Classes on Friday will be devoted to the discussion leader providing a summary of the paper and initiating the discussion between the class and the expert by asking the questions that arose in lab on Wednesday. The rest of the class is expected to actively participate in this discussion.

RESEARCH PROPOSAL, PRESENTATION AND DEFENSE (30%)

The research proposal should be 8-10 pages (typewritten, double-spaced, 12-point Times New Roman font) excluding figures and references, and a maximum of 15 pages including figures, captions, and references (references can be single spaced). Anything in excess of 15 total pages will not be evaluated.

Each student will design a research project that seeks to address some poorly understood aspect of the geology and/or geophysics of the Canadian Cordillera. The proposal will explain the current thinking on the poorly understood topic and describe a study that could address that outstanding question and directions for future research. A more detailed guide for the structure of a research proposal will be given in the first month of the semester.

The deadline for submission of the proposal (one hard copy and pdf) is Friday November 22, 2019. Presentation and defense will be in the week of November 25-29, 2019.

ASSIGNMENT OF GRADES

Each component of the course will be given a mark out of 10. These will be combined, using the above weightings, to give a final course mark (converted to a value out of 100). Conversion of the course mark to a letter grade will be done using the scale below. The Instructors may shift the numerical cut-off levels down, but they will not be shifted up.

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
Minimum % Required	95 %	90 %	85 %	80%	75%	70 %	65 %	60%	55%	50 %	45 %

4. **Missed Components Of Term Work:**

In the event that a student misses the midterm or any course work due to illness, supporting documentation, such as a medical note or a statutory declaration will be required (see [Section M.1](#); for more information regarding the use of statutory declaration/medical notes, see [FAQ](#)). Absences must be reported within 48 hrs.

The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student's responsibility to familiarize themselves with these regulations. See also [Section E.3](#) of the University Calendar.

5. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

As in previous years, there will be a mandatory three-day field trip away from Calgary. Separate handouts will provide an overview of the field trip, logistical details, hazards assessment, and a communication/emergency response plan.

6. **Course Materials:**

There are no additional course materials required for this course.

7. **Examination Policy:**

No aids are allowed on tests or examinations.

Students should also read the Calendar, [Section G](#), on Examinations.

8. **Approved Mandatory And Optional Course Supplemental Fees:**

There are no mandatory or optional course supplemental fees for this course.

9. **Writing Across The Curriculum Statement:**

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also [Section E.2](#) of the University Calendar.

10. **Human Studies Statement:**

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

11. **Reappraisal Of Grades:**

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **10 business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall immediately submit the Reappraisal of Graded Term work form to the department in which the course is offered. The department will arrange for a re-assessment of the work if, and only if, the student has sufficient academic grounds. See sections [I.1](#) and [I.2](#) of the University Calendar

b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of the University Calendar.

12. **Other Important Information For Students:**

a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).

b. **SU Wellness Center:** The Students Union Wellness Centre provides health and wellness support for

students including information and counselling on physical health, mental health and nutrition. For more information, see www.ucalgary.ca/wellnesscentre or call [403-210-9355](tel:403-210-9355).

- c. **Sexual Violence:** The University of Calgary is committed to fostering a safe, productive learning environment. The Sexual Violence Policy (<https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>) is a fundamental element in creating and sustaining a safer campus environment for all community members. We understand that sexual violence can undermine students' academic success and we encourage students who have experienced some form of sexual misconduct to talk to someone about their experience, so they can get the support they need. The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email (svsa@ucalgary.ca) or phone at [403-220-2208](tel:403-220-2208).
- d. **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties. Examples of academic misconduct may include: submitting or presenting work as if it were the student's own work when it is not; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; collaborating in whole or in part without prior agreement of the instructor; borrowing experimental values from others without the instructor's approval; falsification/ fabrication of experimental values in a report. **These are only examples.**
- e. **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- f. **Academic Accommodation Policy:** Students needing an accommodation because of a disability or medical condition should contact Student Accessibility Services in accordance with the procedure for accommodations for students with disabilities available at [procedure-for-accommodations-for-students-with-disabilities.pdf](#).

Students needing an accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Sr. Instructor of the Department of Geoscience, Dr. Rudi Meyer by email rmeyer@ucalgary.ca or phone 403-210-7848. Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than **14 days** prior to the date in question. See [Section E.4](#) of the University Calendar.

- g. **Safewalk:** Campus Security will escort individuals day or night (See the [Campus Safewalk](#) website). Call [403-220-5333](tel:403-220-5333) for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- h. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.
- i. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: suvpaca@ucalgary.ca. SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: sciencerep@su.ucalgary.ca. [Student Ombudsman](#), Email: ombuds@ucalgary.ca.
- j. **Internet and Electronic Device Information:** Unless instructed otherwise, cell phones should be turned off during class. All communication with other individuals via laptop, tablet, smart phone or other device is prohibited during class unless specifically permitted by the instructor. Students that violate this policy may be asked to leave the classroom. Repeated violations may result in a charge of misconduct.
- k. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.
- l. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be

redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

Department Approval:

Electronically Approved

Date: 2019-08-19 13:27

Associate Dean's Approval for out of regular class-time activity:

Electronically Approved

Date: 2019-08-19 14:30