



COURSE OUTLINE

1. **Course:** GLGY 337, Introduction to Geologic Field Methods - Summer 2023

Lab 01 :

Instructor	Email	Phone	Office	Hours
Dr Rodolfo Meyer	rmeyer@ucalgary.ca	403 210-7848	ES 110	

To account for any necessary transition to remote learning for the current semester, courses with in-person lectures, labs, or tutorials may be shifted to remote delivery for a certain period of time. In addition, adjustments may be made to the modality and format of assessments and deadlines, as well as to other course components and/or requirements, so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff).

In Person Delivery Details:

Except for Day1 (Aug 11) this is a Field course that takes place off campus. See Itinerary in the Addendum at the end of this outline.

Re-Entry Protocol for Labs and Classrooms:

To limit the spread of COVID-19 on campus, the University of Calgary has implemented safety measures to ensure the campus is a safe and welcoming space for students, faculty and staff. The most current safety information for campus can be found [here](#).

Course Site:

D2L: GLGY 337 B01-(Summer 2023)-Introduction to Geologic Field Methods

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

Equity Diversity & Inclusion:

The University of Calgary is committed to creating an equitable, diverse and inclusive campus, and condemns harm and discrimination of any form. We value all persons regardless of their race, gender, ethnicity, age, LGBTQIA2S+ identity and expression, disability, religion, spirituality, and socioeconomic status. The Faculty of Science strives to extend these values in every aspect of our courses, research, and teachings to better promote academic excellence and foster belonging for all.

Course Outcomes:

- Locate themselves on a topographic map, and recognize the expression of landscape features on a topographic map.
- Operate a compass for successful navigation and orienteering.
- Describe, sketch, and interpret a rock outcrop using geologic terminology.
- Measure a stratigraphic section and construct a field log of the section, including description of rock units.
- Measure the orientation of planar and linear geologic features.
- Construct a geologic map that includes contacts, geologic symbols, and a legend.
- Construct a geologic cross-section based on data collected in the field.
- Recognize and describe a variety of surficial deposits and sedimentary, igneous, and metamorphic rocks in the field.
- Visualize in 3-D the geologic structures revealed by the cross section(s) both (virtually) above and below ground.

2. **Requisites:**

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

Prerequisite(s):

Geology 333, 343, and 381.

Note(s):

- a. This course occurs in rugged field conditions and varying weather, for which participants must be prepared and equipped. A supplementary fee will be assessed to cover additional costs associated with this course. Students will require consent of the department to drop this course.

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:

Course Component	Weight	Due Date (duration for exams)	Modality for exams	Location for exams
Field Notes ¹	10%	Ongoing		
East Coulee Stratigraphy Exercise	20%	Aug 15 2023		
Exshaw Hwy 1A Stratigraphy Exercise	20%	Aug 20 2023		
Grotto Mountain Canyon Mapping Exercise	25%	Aug 20 2023		
Eager Hill Mapping Exercise	25%	Aug 24 2023		

¹ Field Notes grade includes 5% for Active Participation during the field course.

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%	56%	53 %	50 %

The University of Calgary offers a [flexible grade option](#), Credit Granted (CG) to support student's breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: <https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade>

4. Missed Components Of Term Work:

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online or in-person assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, one possible arrangement is that the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course. This option is at the discretion of the coordinator and may not be a viable option based on the design of this course.

5. Scheduled Out-of-Class Activities:

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

6. Course Materials:

Required Textbook(s):

Angela Coe (Editor), *Geological Field Techniques (2010)*: Wiley-Blackwell.

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);

- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELearning](#) online website.

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:

A supplementary fee is assessed to cover part of the transportation and accommodation costs associated with a field course of this nature.

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.

- Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten 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 submit the Reappraisal of Graded Term work [form](#) to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar
- 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:

- 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](#)).
- SU Wellness Services:** For more information, see their [website](#) or call [403-210-9355](#).
- Sexual Violence:** 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](#). The complete University of Calgary policy on sexual violence can be viewed [here](#).
- Student Ombuds Office:** A safe place for all students of the University of Calgary to discuss student related issues, interpersonal conflict, academic and non-academic concerns, and many other problems.
- Student Union Information:** [SU contact](#), Email your SU Science Reps: science1@su.ucalgary.ca, science2@su.ucalgary.ca, science3@su.ucalgary.ca,

f. Academic Accommodation Policy:

It is the student’s responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, by filling out the [Request for Academic Accommodation Form](#) and sending it to Brandon Karchewski by email brandon.karchewski@ucalgary.ca preferably 10 business days before the due date of an assessment or scheduled absence.

- g. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional [Code of Conduct](#) and promote academic integrity in upholding the University of Calgary’s reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor’s consent; submitting or presenting work as if it were the student’s own work; submitting or presenting work in one course which has also been submitted in another course without the instructor’s permission; borrowing experimental values from others without the instructor’s approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

[Student Handbook on Academic Integrity](#)
[Student Academic Misconduct Policy](#) and [Procedure](#)
[Faculty of Science Academic Misconduct Process](#)
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

- h. **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.
- i. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP). 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.
- j. **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.

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DAY # DATE	LOCATION	ACTIVITY	MEALS	STAYING at:
1 Friday Aug 11	UofC Campus	9:00 am - Introductory meeting and Safety Briefing, ES 136 <u>Exercises:</u> Use of geologic compass and GPS, pace and compass method, making a simple map.	Up to you	Your home

DAY # DATE	LOCATION	ACTIVITY	MEALS	STAYING at:
2 Saturday Aug 12	Drumheller/ East Coulee	Bus drive from UofC Campus to field area near East Coulee. ½ day field work near East Coulee. Work on strat column in the evening.	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : bring sack lunch into the field; up to you. <u>Dinner</u> : up to you *	EconoLodge, Drumheller
3 Sunday Aug 13	Drumheller/ East Coulee	Field work near East Coulee. Work on strat column in the evening	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : bring sack lunch into the field; up to you. <u>Dinner</u> : up to you *	EconoLodge, Drumheller
4 Monday Aug 14	Drumheller/ East Coulee	Field work near East Coulee. Finish strat columns and cross-section in the evening.	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : bring sack lunch into the field; up to you. <u>Dinner</u> : up to you *	EconoLodge, Drumheller
5 Tuesday Aug 15	Drumheller to Barrier Lake Field Station	Bus drive from Drumheller to Barrier Lake Field Station. One or two brief geologic roadside stops along the way.	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : bring sack lunch into the field; up to you. <u>Dinner</u> : served at BGI	Barrier Lake Field Station (BGI)
6 Wednesday Aug 16	Barrier Lake Field Station	Working on stratigraphic column next to Hwy 1A near Exshaw.	Breakfast and dinner served at BGI; food items laid-out during breakfast to make sack lunches for the field.	Barrier Lake Field Station (BGI)
7 Thursday Aug 17	Barrier Lake Field Station	Grotto Canyon Mountain mapping project near Exshaw	Breakfast and dinner served at BGI; food items laid-out during breakfast to make sack lunches for the field.	Barrier Lake Field Station (BGI)
8 Friday Aug 18	Barrier Lake Field Station	Grotto Canyon Mountain mapping project near Exshaw	Breakfast and dinner served at BGI; food items laid-out during breakfast to make sack lunches for the field.	Barrier Lake Field Station (BGI)

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DAY # DATE	LOCATION	ACTIVITY	MEALS	STAYING at:
9 Saturday Aug 19	Barrier Lake Field Station	Grotto Canyon Mountain mapping project near Exshaw	Breakfast and dinner served at BGI; food items laid-out during breakfast to make sack lunches for the field.	Barrier Lake Field Station (BGI)
10 Sunday Aug 20	Barrier Lake Field Station to Cranbrook, BC	Bus drive from BGI to Cranbrook. One or two brief geologic roadside stops along the way <i>and/or</i> start Eager Hill mapping project.	Breakfast served at BGI. <i>To be confirmed</i> : Food items laid-out during breakfast to make sack lunches for the field. <u>Dinner</u> : up to you *	Heritage Inn, Cranbrook
11 Monday Aug 21	Cranbrook, BC	Eager Hill mapping project near Cranbrook	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : bring sack lunch into the field; up to you. <u>Dinner</u> : up to you *	Heritage Inn, Cranbrook
12 Tuesday Aug 22	Cranbrook, BC	Eager Hill mapping project near Cranbrook	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : bring sack lunch into the field; up to you. <u>Dinner</u> : up to you *	Heritage Inn, Cranbrook
13 Wednesday Aug 23	Cranbrook, BC	Eager Hill mapping project near Cranbrook	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : bring sack lunch into the field; up to you. <u>Dinner</u> : up to you *	Heritage Inn, Cranbrook

DAY # DATE	LOCATION	ACTIVITY	MEALS	STAYING at:
14 Thursday Aug 24	Cranbrook, BC to Calgary	Bus drive from Cranbrook to Calgary.	<u>Breakfast</u> : Motel complimentary, continental. <u>Lunch</u> : stop on drive back; up to you.	Your home

* The **EconoLodge in Drumheller** and the **Heritage Inn in Cranbrook** do not have facilities to cook, but every room has a small fridge. Plan on purchasing food at the local grocery to prepare daily sack lunches to take into the field. Dinner is also up to you.

Electronically Approved - Jun 12 2023 09:55

Department Approval