



**COURSE OUTLINE**

1. **Course:** GLGY 201, Principles of Geoscience - Fall 2020

Lecture 01:

Instructor	Email	Phone	Office	Hours
Dr Ann Quinney	aequinne@ucalgary.ca	403 220-6809	ES 514	By appointment

**Online Delivery Details:**

This course does not follow a scheduled meeting pattern.

This course consists of lectures, prelabs, labs, two lab exams, and a group project.

Lectures, labs, and prelabs will be completed using TopHat. In TopHat, you will find that the course is organized by week. The first week of the semester is week 1 and the last week of the semester is week 14. Each week, you will be expected to complete and submit all of the components presented in that folder. You can work on the components whenever you like, but all the components in a folder are due by 5 pm on Friday of the week it is presented.

The group project will be completed using Google Earth Projects. This project is due the last day of class (December 9) by 5 pm.

Lab exams will consist of individual, 20 minute, online oral exams. Exams will be delivered on Zoom. Students must sign up for one time slot during each of the exam weeks to complete their exams.

**Course Site:**

Tophat.com

D2L: GLGY 201 L01-(Fall 2020)-Principles of Geoscience

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

2. **Requisites:**

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

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 %	Due Date
Lecture tophat questions	10	Weekly on Friday by 5 pm
Prelabs	10	Weekly on Friday by 5 pm
Labs	10	Weekly on Friday by 5 pm
Lab Exam 1	15	October 13-16
Lab Exam 2	20	November 16-20
Group Project	35	December 9, 5 pm

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:

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 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, then the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course.

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

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

#### 6. Course Materials:

Required Textbook(s):

Steven Earle, *Physical Geology 2nd edition*: BC Campus Open Ed.

Recommended Textbook(s):

Charles Fletcher, Dan Gibson, Kevin Ansdell, *Introduction to Physical Geology the Science of Earth Canadian Edition*: Wiley.

#### 7. Examination Policy:

A student may print out course materials from the lectures, textbook, prelabs or labs including figures, diagrams or text for use during the lab exams. A student may not contact another individual for help during the exam. A student may not search for answers or information pertaining to the exam questions during the exam.

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 **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

- 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:** For more information, see [www.ucalgary.ca/wellnesscentre](http://www.ucalgary.ca/wellnesscentre) or call [403-210-9355](tel:403-210-9355).
- c. **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](mailto:svsa@ucalgary.ca)) or phone at [403-220-2208](tel:403-220-2208). The complete University of Calgary policy on sexual violence can be viewed at (<https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>)
- 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. **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 Teaching Professor of the Department of Geoscience, Jennifer Cuthbertson by email [cuthberj@ucalgary.ca](mailto:cuthberj@ucalgary.ca) or phone [403-220-4709](tel:403-220-4709). 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.

- f. **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.
- g. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca). SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca). [Student Ombudsman](#), Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca).
- h. **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.
- i. **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.

Week	Date	Lecture Topic	Lab
1	Sept 8-11	Plate Tectonics	NO LAB
2	Sept 14-18	Mineral ID	Mineral ID
3	Sept 21-25	The Rock Cycle	Mineral Classes
4	Sept 28- Oct 2	Igneous Rocks	Igneous Rocks
5	Oct 5-9	Sedimentary Rocks	Sedimentary Rocks
6	Oct 12-16	Group Project Introduction	<b>Lab Exam 1</b>
7	Oct 19-23	Topographic Maps	Topographic Maps
8	Oct 26-30	Landforms	Landforms
9	Nov 2-6	Metamorphic Rocks	Metamorphic Rocks
10	Nov 9-13	READING WEEK	NO LAB
11	Nov 16-20	Group Project Update	<b>Lab Exam 2</b>
12	Nov 23-27	Geologic Time, Paleo	Geologic Time
13	Nov 30- Dec 4	Structural Geology	Virtual Geology
14	Dec 7-9	Group Project Due	

### Course Outcomes:

- Describe and interpret the types of evidence that inform our understanding of geological processes.
- Describe the external and internal structure of the Earth and the geophysical and geomorphological processes that operate on and within it.
- Explain the fundamentals of tectonic theory, its historical development, and how it explains the geologic evidence observed at the surface of the Earth.
- Compare and contrast the processes that form similar, but different features (e.g. coarse grained granite vs. coarse grained sandstone, mountains vs. volcanoes, river valleys vs. glacial valleys) and describe the evidence that one can use to distinguish between them
- Analyse geologic features observed during everyday life and say something significant about them, including being able to: a. Use diagnostic characteristics to identify rocks in hand sample and explain the likely conditions during rock formation. b. Discuss the limitations of visual observations in accurately classifying rocks.
- Compare and contrast how scientific inquiry and theory development work in geology/geoscience versus other physical sciences.
- Appreciate the complexity of the world surrounding us, and how geologic processes have shaped the society in which we live.
- Communicate the above ideas to peers in the scientific community.

Electronically Approved - Aug 24 2020 22:17

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### Department Approval

Electronically Approved - Aug 26 2020 11:56

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### Associate Dean's Approval for...

1. A non-registrar scheduled final examination.