



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF GEOSCIENCE
COURSE OUTLINE

1. **Course:** GLGY 202, Applications of Geoscience -- Winter 2018

Lecture 02: (MWF, 11:00-11:50 in ENE243)

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

Course information, lecture notes, and updates to the schedule will all be posted on D2L. Students are responsible for checking the course page regularly.

Course Site:

D2L: GLGY 202 L02-(Winter 2018)-Applications of Geoscience

Department of Geoscience: ES 118, 403 220-5841, geoscience@ucalgary.ca

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

2. **Prerequisites:**

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

Geology 201.

Credit for both Geology 202 and 203 will not be allowed.

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 %
Weekly Lab Assignments	25
In class exercises	5
Lecture Midterm	25
Lab Final	15
Lecture Final	30

Each of the above components will be given a letter grade using the official university grading system. The final grade will be calculated using the grade point equivalents weighted by the percentages given above and then converted to a final letter grade using the official university grade point equivalents.

Students must achieve a grade of 50% in both the laboratory and the lecture component in order to pass the course.

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

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 himself/herself with these regulations. See also [Section E.3](#) of the University Calendar

5. **Scheduled out-of-class activities:**

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

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a conflict with the out-of-class-time-activity, please contact your course coordinator/instructor no later than **14 days prior** to the date of the out-of-class activity so that alternative arrangements may be made.

6. Course Materials:

Required Textbook(s):

B. Pipkin, D.D. Trent. R. Hazlett, P. Bierman, Geology and the Environment, Brooks/Cole

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 those reports. See also Section [E.2](#) of the University Calendar.

10. Human studies statement:

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

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.

- 1. Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **15 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
- 2. 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. 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.**
- b. Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- c. 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-accomodations-for-students-with-disabilities_0.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:

- d. **Safewalk:** Campus Security will escort individuals day or night (www.ucalgary.ca/security/safewalk/). 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.
- e. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). 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 also www.ucalgary.ca/legalservices/foip.
- f. **Student Union Information:** [VP Academic](mailto:VP.Academic@ucalgary.ca), 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: suvpaca@ucalgary.ca.
- g. **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.
- h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](http://www.ucalgary.ca/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. **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).

Week	Date	Lecture Topics	Lab Topic
1	Jan 8-12	Topic 1: Earth as a Habitat	
2	Jan 15-19	Topic 1: Earth as a Habitat	1: Carbon Cycle Model
3	Jan 22-26	Topic 2: Earth as a Resource	2: Ore accounting
4	Jan 29-Feb 2	Topic 2: Earth as a Resource	3: Hydrocarbons
5	Feb 5-9	Topic 2: Earth as a Resource	4: Bow River
6	Feb 12-16	Topic 3: Earth as a Hazard	5: Earthquake Mechanisms and effects
7	Feb 19-23	Reading Days	
8	Feb 26-Mar 2	Topic 3: Earth as a Hazard	6: Vancouver Hazard
9	Mar 5-9	Topic 4: Engineering Considerations	7: Planning a City
10	Mar 12-16	Topic 4: Engineering Considerations	8: Geoanalytical Tools
11	Mar 19-23	Topic 5: Feedbacks (Climate Change)	9: Blogosphere
12	Mar 26-30	Topic 5: Feedbacks (Climate Change)	10: Anthropocene
13	April 2-6	Topic 5: Feedbacks (Climate Change)	TBA
14	April 9-13	Topic 6: Land Use Planning	Lab Final

Note: schedule is subject to changes.

Department Approval:

Electronically Approved

Date: 2017-12-07 18:03

Course Outcomes

1. Students will be able to identify types of models used in geoscience, and analyze them for their purpose, affordances and limitations
2. Students will illustrate the important geologic processes involved with the generation and emplacement of natural resources and identify these resources as either renewable or non-renewable
3. Students will evaluate human decisions, in terms of trade-offs, with regard to natural hazards, resource exploitation, and waste disposal
4. Students will categorize the various roles of geoscientists within society with respect to natural hazard, resource exploitation and waste disposal.
5. Students will make an informed argument for the nature of human impact on the earth by delineating major affects on the physical earth, biosphere in general and humans existence in specifically.
6. Students will generalize the nature of geologic hazards in terms of the geologic phenomena involved, impacts on human life and property and processes of human mitigation