



UNIVERSITY OF CALGARY

DEPARTMENT OF GEOSCIENCE COURSE OUTLINE WINTER 2016

1. Course: GLGY 209 (01), Introduction to Geology

Lecture Sections:

L01: Mo, We, Fr, 12:00-12:50, MFH 162

Instructor:

Dr. Alan Hildebrand, Office: ES 760A, ph. (403) 220-2291, e-mail: ahildebr@ucalgary.ca, Office Hours: TuWed 2:00 – 3:00 PM

Course materials are posted on Desire 2 Learn (D2L). Geoscience Department ES 118, 403-220-5841, geoscience.ucalgary.ca, geoscience@ucalgary.ca

2. Prerequisites: N/A

Antirequisite: Credit for both Geology 201 and 209 will not be allowed. See section 3.5.C in the Faculty of Science section of the online Calendar (www.ucalgary.ca/pubs/calendar/current/sc-3-5.html).

Note: Not open for credit to Honours, Majors or Minors in Geology, Geology (Petroleum Geology Concentration), Applied and Environmental Geology, Geophysics, Environmental Science (Geology Concentration) or Natural Sciences (Geoscience Concentration).

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

First midterm	25% (Feb. 5)
Second midterm	30% (March 14)
Final Examination	40% (To be scheduled by the Registrar)
Top Hat	5% (Join code 678478)

Grading Scheme

Letter Grade	Percent	Letter Grade	Percent
A+	95-100	C+	65-69.99
A	90-94.99	C	60-64.99
A-	85-89.99	C-	56-59.99
B+	80-84.99	D+	53-55.99
B	75-79.99	D	50-52.99
B-	70-74.99	F	0-49.99

Each piece of work (assignment, laboratory report, midterm test or final examination) submitted by the student will be assigned a percentage score. The student's average percentage score for the various components 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 (bearing in mind that grade F will be result if the student does not pass components listed above).

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.6](#) of the University Calendar
5. **Course Materials:** Stephen Marshak. 2013. Essentials of Geology, W. W. Norton. 4th edition.
6. **Examination Policy:** Nonprogrammable calculators are allowed during midterms and final examination. Students should also read the Calendar, [Section G](#), on Examinations.
7. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**
 - (a) **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
 - (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
 - (c) **Student Accommodations:** 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 http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.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, preferably in writing, to the Associate Head of Geoscience, Dr. E.S. Krebs by email krebs@ucalgary.ca or phone 403-220-5850.
 - (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 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 (FOIPP). As one consequence, 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 <http://www.ucalgary.ca/secretariat/privacy>.
 - (f) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: suvpaca@ucalgary.ca.
SU Faculty Rep. Phone: 403 220-3913 Email: science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca; Student Ombuds Office: 403-220-6420 Email: ombuds@ucalgary.ca; <http://ucalgary.ca/provost/students/ombuds>.
 - (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
 - (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference – please participate in USRI Surveys.

GLGY 209 – Section 1 - Topic Outline

Week	Topics	Readings
1 (Jan 11-15)	Introduction, Prelude, Earth Origin, Plate Tectonics	Prelude, Ch. 1, 2
2 (Jan 18-22)	Earth Interior, Earth History	Interlude D, Ch. 11
3 (Jan 25-29)	Crustal Deformation, Earthquakes	Ch. 8, 9
4 (Feb 1-5)	Volcanic Eruptions/ First midterm – Feb. 5	Ch. 5
5 (Feb 8-12)	Minerals and Igneous Rocks	Ch. 3, 4
Reading Week (Feb 15-19)		
6 (Feb 22-26)	Sed. Rocks, Metamorphism	Ch. 6 and 7
7 (Feb 29-Mar 4)	Stratigraphy, Dating, Fossils and Evolution	Ch. 10 and Interlude E
8 (Mar 7-11)	Resources, Mass movements	Ch. 12, 13
9 (Mar 14-18)	Streams/ Second Midterm - Mar. 14	Ch. 14
10 (Mar 21-25)	Ocean, Hurricanes	Ch. 15
11 (Mar 18-Apr 1)	Groundwater, Deserts	Ch. 16, 17
12 (Apr 4-8)	Glaciers, Earth Systems	Ch. 18, 19
13 (Apr 11-13)	Review	
Final examination period April 16-27		