

UNIVERSITY OF CALGARY  
DEPARTMENT OF GEOSCIENCE  
COURSE OUTLINE

1. Course: GEOLOGY 209 – INTRODUCTION TO GEOLOGY I

Lecture Sections:      L01                      MW                      15:00 – 17:45                      ES 162                      SPRING 2014

**Instructor(s):**              L01 – Dr. J. Cuthbertson                      ES 520                      220-4709                      cuthberj@ucalgary.ca

Course website is on D2L.

Geoscience Department ES 118; (403) 220-5841; geoscience.ucalgary.ca

2. PREREQUISITE:      None

**ANTIREQUISITE:** Credit for both Geology 209 and 201 will not be allowed.

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 (Geosciences Concentration).

See section 3.5.C in the Faculty of Science section of the online Calendar (<http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html>)

3. **GRADING:** The University policy on grading and related matters is described in “Academic Regulations, sections F.1 and F.2” of the online University Calendar (<http://www.ucalgary.ca/pubs/calendar/current/f-1.html> and <http://www.ucalgary.ca/pubs/calendar/current/f-2.html>) In determining the overall grade in the course the following weights will be used:

Assignment 1	10%
Assignment 2	15%
Midterm 1	25%
Midterm 2	25%
Final Exam	25% (To be scheduled by the Registrar)

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.

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: <http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html>. It is the student's responsibility to familiarize himself/herself with these regulations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-3.html>.

5. Dates and times of class exercises held outside of class hours: none.

**REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY.** If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

6. **EXAMINATION POLICY:** No electronic or written aids (eg. cell phones, tablets, computers, PDAs, notes, textbooks) will be allowed during writing of any exams. Non-programmable calculators will be permitted to answer quantitative questions on exams, if applicable, and permission to do this will be clearly indicated on the examination paper.

Students should also read the Calendar, Section G, on Examinations: <http://www.ucalgary.ca/pubs/calendar/current/g.html>.

7. In this course, the quality of the student's writing in assignments will be a factor in the evaluation of those reports. See also <http://www.ucalgary.ca/pubs/calendar/current/e-2.html>.

#### 8. 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 K. Student Misconduct (<http://www.ucalgary.ca/pubs/calendar/current/k.html>) 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 at <http://www.ucalgary.ca/emergencyplan/assemblypoints>.**
- (c) **ACADEMIC ACCOMMODATION POLICY.** Students with documentable disabilities are referred to the following links:  
Calendar entry on students with disabilities: <http://www.ucalgary.ca/pubs/calendar/current/b-1.html>  
Student Accessibility Services: [www.ucalgary.ca/access](http://www.ucalgary.ca/access)
- (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:** 220-3911 **Email:** [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca).  
SU Faculty Rep. **Phone:** 220-3913 **Email:** [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca) Website <http://www.su.ucalgary.ca/home/contact.html>.  
Student Ombudsman: [www.ucalgary.ca/provost/students/ombuds](http://www.ucalgary.ca/provost/students/ombuds); [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca) 220-6420
- (g) **INTERNET and ELECTRONIC COMMUNICATION DEVICE Information.** You can assume that in all classes that you attend, **your cell phone should be turned off.** 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.

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DEPARTMENT OF GEOSCIENCE  
COURSE OUTLINE

GEOLOGY 209  
INTRODUCTION TO GEOLOGY

TERM:	Spring 2014			
PREREQUISITE(S):	<b>None</b>			
ANTIREQUISITE:	Credit for both Geology 209 and 201 will not be allowed.			
LECTURER(S):	L01 – Dr. J. Cuthbertson	ES 520	220-4709	cuthberj@ucalgary.ca
LECTURES:	L01	MW	15:00 – 17:45	ES 162

TEXT (recommended) :

**Title:** Essentials of Geology, 3<sup>rd</sup> or 4<sup>th</sup> Edition

**Authors:** Stephen Marshak

**Publisher:** W.W. Norton & Company

**Year:** 2009 or 2012

**ISBN:** 978-0-393-93238-6

Available at the University of Calgary Bookstore. Look for used copies also.

RESERVE READING ROOM: N/A

MARK DISTRIBUTION: A. Composition of Final Grade

Assignment 1	10%
Assignment 2	15%
Midterm 1	25%
Midterm 2	25%
Final Exam	25%

Students who are absent from the midterm exam or final laboratory exam because of illness or other unforeseen circumstances may be granted an excused absence by the Course Coordinator (midterm exam) or Lab Coordinator (final laboratory exam) upon presentation of adequate documentation (a completed Physician/Counsellor Report form <<http://www.ucalgary.ca/registrar/PDFs/physcoun.pdf>> for illness; equivalent documentation for other circumstances). There will be no “make-up” examinations for excused absences. The weight assigned to the midterm examination will be transferred to the final examination.

Similarly, students who are unable to submit laboratory reports or assignments on time because of similar circumstances will be required to submit the same type of documentation to the Lab Coordinator in order to be considered for a time extension.

B. Final Exam

There will be a final examination scheduled by the Registrar's Office.

C. Components of Course for Which a Passing Grade is Essential: N/A

D. Grading Scheme

<b>Letter Grade</b>	<b>Percent</b>
A+	94-100
A	88-94
A-	83-88
B+	78-83
B	73-78
B-	69-73
C+	65-69
C	61-65
C-	56-61
D	50-56
F	0-50

CLASSROOM PERFORMANCE SYSTEM: N/A

May 2014

Monday	Tuesday	Wednesday	Thursday	Friday
			1	2
5	6	7	10	11
12	13	14 <b>First lecture</b> Course logistics, science, geologic time, planetary geology	15	16
19 <b>Victoria Day</b> <b>No lecture</b>	20	21 Planetary geology, plate tectonics, gems and minerals	22	23
26 <b>Assignment 1 Due</b> Gems and minerals, the rock cycle, igneous rocks	27	28 Volcanoes, geology and human health, review	29	30

## June 2014

Monday	Tuesday	Wednesday	Thursday	Friday
2 <b>Midterm I (1.5 hrs)</b> Weathering and mass movement	3	4 Clastic and carbonate sedimentary rocks, intro to metamorphic rocks	5	6
9 Metamorphic rocks, rock deformation, folding and faulting	10	11 Glacial deposits, climate change and carbon capture, review	12	13
16 <b>Midterm II (1.5 hrs)</b> Water and deserts	17	18 History of life on Earth, dinosaurs, paleontology, earthquakes	19	20
23 <b>Assignment 2 Due</b> Tsunamis, ore deposits and mineral resources	24	25 <b>Last Lecture</b> Fossil fuel resources, review	26	27