



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF GEOSCIENCE
COURSE OUTLINE
SPRING 2016

1. **Course:** Geology 209, Introduction to Geology

Lecture Sections:

L01: MoWe, 12:00-14:45, ES 162

Instructor: Dr. J. Cuthbertson; Office: ES 520; Tel. No.: 403-220-4709; e-mail address, cuthberj@ucalgary.ca;

Office Hours: 11am-12pm Wednesdays

Course will use 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 209 and 201 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 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:

| | |
|--------------|--|
| Assignment 1 | 15% |
| Assignment 2 | 20% |
| Midterm Exam | 30% |
| Final Exam | 35% (To be scheduled by the Registrar) |

| Letter Grade | Percent |
|--------------|---------|
| 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+ | 53-56 |
| D | 50-53 |
| F | 0-50 |

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: Text (recommended):**
Title: Essentials of Geology, 3rd or 4th 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.
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.
7. **Writing across the curriculum statement:** In this course, the quality of the student's writing in Assignments 1 and 2 will be a factor in the evaluation of those assignments.
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 [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: suypaca@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**MAY 2016****INTRODUCTION TO GEOLOGY**

Class Time: Mondays and Wednesdays, 12:00-2:45pm

Class location: ES 162

| Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---------|---|----------|--------|
| 2 | 3 | 4 | 5 | 6 |
| 9 First lecture Course logistics, science, geologic time, planetary geology | 10 | 11 Planetary geology, plate tectonics, gems and minerals | 12 | 13 |
| 16 The rock cycle, igneous rocks, magmatic processes | 17 | 18 Geology and human health, volcanoes, hazards | 19 | 20 |
| 23 Victoria Day No lecture | 24 | 25 Weathering and mass movement | 26 | 27 |
| 30 No lecture | 31 | | | |

GLGY 209**JUNE 2016****INTRODUCTION TO GEOLOGY**

Class Time: Mondays and Wednesdays, 12:00-2:45pm

Class location: ES 162

| Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---------|---|----------|--------|
| | | 1 No lecture | 2 | 3 |
| 6 Assignment 1 Due Clastic and carbonate sedimentary rocks, intro to metamorphic rocks | 7 | 8 Metamorphic rocks, rock deformation, folding and faulting, tectonics | 9 | 10 |
| 13 Midterm Exam (1.5 hrs) Climate change and carbon capture | 14 | 15 Glacial deposits, water and deserts | 16 | 17 |
| 20 History of life on Earth, dinosaurs, paleontology | 21 | 22 Earthquakes, tsunamis | 23 | 24 |
| 27 Assignment 2 Due Ore deposits and mineral resources | 28 | 29 Last Lecture Fossil fuel resources, review and discussion | 30 | |