



# UNIVERSITY OF CALGARY

## DEPARTMENT OF GEOSCIENCE COURSE OUTLINE FALL 2017

1. **Course:** GLGY 707, Geology and Geophysics of Western Canada

L01: MoFr, 14:00-14:50, ES 147

Weekly labs (=discussions): W 14:00-15:50

Instructors:, Dr. D. Pattison, Office: ES 154, Tel. No. 403-220-3263, e-mail address: [pattison@ucalgary.ca](mailto:pattison@ucalgary.ca)

Office Hours: to be arranged by email

Dr. H. Gilbert, Office: ES 150, Tel. No. 403-220-6446, e-mail address: [hersh.gilbert@ucalgary.ca](mailto:hersh.gilbert@ucalgary.ca)

Office Hours: to be arranged by email

Teaching Assistant: Chad Morgan, Office: ES 275, e-mail address: [camorgan@ucalgary.ca](mailto:camorgan@ucalgary.ca)

Geoscience Department ES 118, 403-220-5184, [geoscience.ucalgary.ca](http://geoscience.ucalgary.ca), [geoscience@ucalgary.ca](mailto:geoscience@ucalgary.ca)

2. **Note:** Open only to graduate students in the Department of Geoscience.

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:

Required reading and participation, plus field trip	25%
Research Paper	30%
Presentation of Paper	20%
Final Oral Examination	25%

### **REQUIRED READING, PARTICIPATION, AND SEMINAR COMPONENT (25%)**

The seminar component of GLGY707, which is an essential aspect of the course, will focus on assigned readings, a written précis and a class discussion each week. The seminar component of 707 will occur in the two hour Wednesday class period. Comprehension of the assigned readings will be evaluated using a written component (précis) and by participation in class discussions.

A paper relevant to the topics covered in lecture will be assigned at the beginning of the seminar period each Wednesday and a précis summarising the paper will be due the following Monday at the beginning of class. Each précis will be no longer than 250 words and will conclude by asking three questions that stem from your understanding of the paper. The questions do not count toward the word count. Class discussion period will begin with a randomly chosen student or students providing a brief overview of the paper (not a reading of their précis!). Three questions, drawn from the student's précis, will then be presented by the TA for discussion by the class.

Rubrics will be used to evaluate the précis and participation in the class discussions. These rubrics will be presented in the first seminar period. The rationale is to be able to synthesize a lengthy work into a précis [**pré-cis** (prā sē', prā sē) *n., pl. -cis* (-sēz' -sēz) — 1. a concise summary].

The field trip will incorporate an exercise booklet. You will complete the exercises and participate in the trip by asking questions and engaging in discussion. Your grade for the trip will be determined using your field trip exercise booklet, as well as from your participation in the discussions. Make sure that you have a notebook, sharp pencil, hand lens, hammer, and pocket knife (to test hardness).

### **RESEARCH PAPER (30%) and PRESENTATION (20%)**

The research paper should be less than 10 pages (typewritten, double-spaced, 12 point Times New Roman font) excluding figures and references, and a maximum of 15 pages including figures and references (references can be single spaced). Anything in excess of 15 total pages will not be evaluated. The research article will be the basis of your seminar presentation. The topic must be centred on some controversial or poorly understood aspect of the geology and geophysics of the Cordillera. The paper will explain the controversy and the current thinking regarding the topic, and explore directions for future research.

The deadline for approval of your article topic is Friday October 16, 2017. The deadline for submission of the paper (one hard copy and pdf) is Friday November 24, 2017.

Each seminar is to include 15 minutes of presentation and 5 minutes of discussion. Discussion of seminar materials by members of the class will make up part of the "participation" component of your grade. Seminars will be scheduled for the week of Nov. 27 – Dec. 1. Additional time on class days will likely be required.

#### **FINAL ORAL EXAMINATION (25%)**

Oral examinations will be conducted during the week of Dec. 4 - Dec. 8, 2017. Drs. Pattison and Gilbert and the TA will conduct the examination, but other faculty members may attend and ask questions. The examination period is 30 minutes per person.

#### **ASSIGNMENT OF GRADES**

Each component of the course will be given a mark out of 10. These will be combined, using the above weightings, to give a final course mark (converted to a value out of 100). Conversion of the course mark to a letter grade will be done using the scale below. The Instructors may shift the numerical cut-off levels down, but they will not be shifted up.

<b>Letter Grade</b>	<b>Percent</b>	<b>Letter Grade</b>	<b>Percent</b>
A+	92.00-100.0	C+	68.00-71.99
A	85.00-91.99	C	65.00-67.99
A-	82.00-84.99	C-	60.00-64.99
B+	78.00-81.99	D+	55.00-59.99
B	75.00-77.99	D	50.00-54.99
B-	72.00-74.99	F	0-49.99

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:**

**Textbooks:** There is no required textbook for this course.

6. **Examination Policy:** Students should read the Calendar, [Section G](#), on Examinations.

7. **Writing across the curriculum statement:** In this course, the quality of the student's writing will be a factor in the evaluation of submitted written materials. See also [Section E.2](#) of the University Calendar.

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) **Academic Accommodation Policy:** Students with documentable disabilities are referred to the following links: Students with Disabilities: <http://www.ucalgary.ca/pubs/calendar/current/b-1.html> and Student Accessibility Services: <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: 403 220-3911 Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca)  
SU Faculty Rep. Phone: 403 220-3913 Email: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca)  
and [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca);

- (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](http://www.ucalgary.ca/usri)). Your responses make a difference – please participate in USRI Surveys.

## 9. FIELD TRIP

As in previous years, there will be a mandatory three-day field trip away from Calgary. The trip will run from 07:00 F Sep 29, 2017 to 20:00 Su Oct. 1, 2017. Separate handouts will provide an overview of the field trip, logistical details, hazards assessment, and a communication/emergency response plan.

Department Approval: ORIGINAL SIGNED

Date: August 15, 2017

Associate Dean's Approval for  
out of regular class-time activity  
and alternate final examination arrangements: ORIGINAL SIGNED

Date: August 17, 2017