

DEPARTMENT OF GEOSCIENCE COURSE OUTLINE

1. Course: GLGY 571, Engineering Geology

Lecture Sections:

L01: TuTh, 12:30-13:45, TRB 102 Dr. L. Bentley, Office: ES 262, Ph. 403-220-4512, <u>lbentley@ucalgary.ca</u>

GLGY 571 L01

Desire 2 Learn (D2L) GLGY 571 L01 Geoscience Department ES 118, 403-220-5841, geoscience.ucalgary.ca, <u>geoscience@ucalgary.ca</u>

- Prerequisites: Geology 341 or 343 and Geophysics 351 or 355. See also Geology <u>Course Descriptions</u> of the University Calendar. Notes: Completion of Geology 401 is highly recommended prior to taking this course.
- **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:

Assignments/Labs	
Project	
Exam 1	
Exam 2	
Exam 3	
No Final Exam	
No Final Exam	

30% 25% 15% (Approx. date 15 Oct., 2013) 15% (Approx. date 05 Nov., 2013) 15% (Approx. date 26 Nov., 2013)

Percentage	Grade
92	A+
85	А
82	A-
78	B+
75	В
72	B-
68	C+
65	С
60	C-
55	D+
50	D
<50	F

- 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: "Geological Engineering", by de Vallejo and Ferrer, CRC Press. A set of printed notes to supplement the textbook is sold in the University Bookstore.
- 6. Examination Policy: Open book, calculators allowed, computers allowed but WiFi must be off. No other electronic devices. Students should also read the Calendar, Section G, on Examinations.

7. Writing across the curriculum statement: The quality of the student's writing in homework, lab, reports and projects will be a factor in the evaluation of those reports. See also <u>Section E.2</u> 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: Calendar entry on students with disabilities and Student Accessibility Services.
- (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: suvpaca@ucagary.ca. SU Faculty Rep. Phone: 220-3913 Email: sciencerep@su.ucalgary.ca; Student Ombudsman
- (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) 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.

Department Approval: ORIGINAL SIGNED

Associate Dean's Approval for Alternate final examination arrangements: ORIGINAL SIGNED

Date: September 8 2014

all, 2014	<u> </u>		Lectures Tu, Th 1230-1345, TRB 102 Laboratory FR ES149, 1200-1500			
Date	Day	Lecture	Reading	H.W. Assignment	Due Date	
09-Sep	Tu	Organization and Introduction				
11-Sep	Th	Chapter 1 Introduction				
12-Sep	Fr	No Lab				
16-Sep		Soils and Hydraulic Head	Sections 2.1-2.3	HW Ass. 1 Soils	03-Oct	
18-Sep	Th	Effective Stress	Section 2.4			
19-Sep	Fr	Soils Lab				
24-Sep	Tu	Consolidation	Section 2.5			
26-Sep	Th	Shear Strength	Section 2.6			
27-Sep	Fr	Soils Lab				
30-Sep	Tu	Case Histories	Sections 2.7-2.9			
02-Oct	Th	Review HW		HW due; Lab Due		
03-Oct	Fr	No Lab	Ch 16			
07-Oct	Tu	Rock Mechanics		Return assignments		
		Physical and Mech. Properties	Sections 3.1-3.2			
09-Oct	Th	Stress and Strains	Section 3.3			
10-Oct		Soils Exam				
14-Oct	Tu	Strength and Deformability	Section 3.4			
16-Oct	Th	Intact Rock Discontinuities	Section 3.5			
17-Oct	Fr	Rock Mechanics Lab				
21-Oct		Strength and Deformability	Section 3.6			
23-Oct	Th	Rock Mass In stitu stress & Rock mass	Sections 3.7-3.8			
20-001		classification				
24-Oct		Rock Mechanics Lab				
28-Oct	Tu					

		Review rock mechanics			
30-Oct	Th	problems		Paper topics due	
04 Ort	F				
31-Oct	Fr	Rock Mechanics Exam			
04-Nov	Ти	ES147			
011101					
		Methods and Rock Mass			
06-Nov	Th	Description	Assign ERT Probl	Assign ERT Problem	
07-Nov	F r	No Lab			
		1 1			
8-11 Nov		Reading days			
11-Nov	10	No Class, No Lab			
13-Nov	Th				
14-Nov					
18-Nov	Tu		Assignments Due		
20-Nov	Th				
20-1100	111				
21-Nov	Fr				
26-Nov	Tu	Exam			
28-Nov	Th				
29-Nov	Fr				
02-Dec					
	-				
04-Dec	Th	Projects Due			
	_				
05-Dec	⊦r	No Lab			

No Final Exam