ERTH 1080 **Geology 1** **Fall 2018**

Professor Dr. Lexie Arnott (aarnott@dal.ca) **Pronouns**: She/her
Office LSC 2020B **Office hours**: Open door or by appointment
Classes: 1:05-2:25pm Tuesday/ Thursday; LSC Psychology P5260
Labs 2:35pm- 5:25pm Monday/ Tuesday (LSC 2055) or Thursday (LSC 2030)
Textbook: *Earth: Portrait of a Planet and Lab Manual package (also used for ERTH 1090); TopHat*

What should you bring to class? A SMARTPHONE, TABLET, OR LAPTOP. *Something to take notes with. On occasion you may require a ruler, calculator, and pencil. Occasionally you may be asked to bring certain chapters of your textbook. Any other requirements you will be informed of prior to class*

EVALUATION COMPONENTS	**%**
Labs (including lab quizzes)	**30**
Assignments	**10**
Mini-activities/	**10**
TopHat	**5**
Midterm test (1 in class)	**15**
Exam	**30**

***Note: You MUST pass BOTH the lab component and the non-lab component in order to pass the course*. (50% is a passing grade). Marks will not be reweighted at the end of term. The mark you get is the mark you earned.**

Course Components

Labs : 3 hours/week and lab quiz. Labs and lectures are both integral to your learning and are designed to complement each other. You will be attending lab with the other section of ERTH 1080. We will be working at more or less the same pace. I will work closely with your lab assistants to make sure you have all the materials and information you need! To aid your learning, try to connect what you do in lecture with what we cover in labs!

Assignments: Students will have to complete two assignments this term. These are to be completed outside of class time. Further details will be given later but one will be mandatory for everyone and one will have options.

Mini-activities/ Tophat quizzes: Throughout the term, there are a number of mini-activities and quizzes during class time, or online before or after a given class. These are intended to aid your learning. Some of these activities will take the form of pre-lecture or lecture quizzes, via TopHat. The best 80% of these make up your mark for this component; there will **be no make-up mini-activities/TopHat quizzes**.

This course will use TopHat. TopHat will comprise 5% of your course mark and you will need to be signed up by the second week for this course (next Tuesday). There will be a link posted in BrightSpace. You will also need to bring a device that will access TopHat during class (smartphone, tablet, laptop, etc.).

Tests : There will be one midterm test, worth 15%. There are no make up tests; if you miss a test due to illness or family emergency, the exam will have a higher value (45%). Due to the high weight of this test, if you achieve a higher grade on the exam, 5% from the midterm will be moved to the final exam.

Exam: Faculty of Science requires all first-year science classes to have a formal exam (December 6-16). **Do not make travel arrangements until after the exam schedule is posted** on October 1st. Accommodations will not be made for students who leave before the scheduled exam.

Late assignments will result in a 20% per day penalty – if already marked and returned, late assignments will not be accepted. Mini-assignments will not be accepted late.

Marks will not be reweighted at the end of term.

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This is an introductory earth sciences (geology) course: ½ credit, with a lab. ERTH 1080 is a required course for Earth Science majors; an excellent course for anyone requiring a lab credit course or interested in Earth Sciences.

This course only requires a minimal background in science and math; no prior geology is required!

Calendar Description

This course focuses on the solid earth (geosphere) and how it evolved throughout earth's vast history, and continues to evolve today. The processes involved are recorded in the rocks and minerals of our earth, and we explore these natural processes and materials as a way to understanding our earth.

Course Outcomes:

Identify and classify common earth materials and the processes that form them, by interpreting the evidence within the rocks themselves

Explain plate tectonic theory and begin to apply the principles in understanding earth materials and processes

Describe the essential nature of planet earth in terms of physical and chemical composition, and the distribution of materials within and on earth

Identify and explain the basic principles of spatial, temporal, and dynamic thinking about planet earth

Begin to develop a questioning approach to interpreting information about the physical earth and "think like a geologist"

Dalhousie's definition of an A. From the Dalhousie website under Academic Support

A+	90-100	Considerable evidence of original thinking; demonstrated outstanding capacity to analyze and synthesize; outstanding grasp of subject matter; evidence of extensive knowledge base.
A	85-89	
A-	80-84	

Marks to grade equivalent: Numerical results will be converted to letter grades as follows:

A+ = 90 -100, A =85-89.9, A- =80-84.9

B+ = 77-79.9, B =73-76.9, B- = 70-72.9

C+ = 65-69.9, C =60-64.9, C- = 55-59.9

D = 50-54.9 F = < 50

(D is a passing grade)

Group vs. Individual Work

You are encouraged to work together on the lab component. You may also work on the in-class and take-home assignments, but the wording, in both cases, MUST BE YOUR OWN (see note on Dalhousie Academic Integrity). Note also that you are responsible for understanding the materials covered in the labs

Student Declaration of Absence procedures

In this course, a declaration of absence is only necessary for midterms and exams.