ERTH 1091: Geology 2 **Course Outline** **Winter 2025**

Instructor: Lexie Arnott, PhD.
Email: Lexie@dal.ca Office: LSC 3081 (Biology Wing) Office hours: Book online through BrightSpace.
Classes: Monday & Wednesday 5:35-6:55pm Rowe 1011 (sometimes other spaces as required)

Land Acknowledgement: Throughout this term we are learning about Earth Sciences on the unceded land of the Mi'kmaq. It is important to acknowledge that the exploitation of mineral, energy, and water resources has its roots in colonialism, and this continues to disproportionately affect the Inuit, Metis, and First Nations people of Canada.

Calendar Description: Earth systems introduced in Geology I are explored in greater detail, with an emphasis on change through time, earth resources, and on geologic systems that are connected to human actions. This course provides a strong background to pursue further work in the environmental sciences and is the required course for Earth Sciences majors.

Learning Outcomes:
- Summarize and interpret key events in earth history, and begin to develop an understanding of deep time in terms of Earth's physical world and the fossil record
- Identify and critique modern geologic problems and the geologic aspects of global change
- Identify and interpret a variety of geologic processes, such as fluvial, groundwater, glacial, and coastal processes using maps and other graphical representations where applicable
- Explain, evaluate, and appreciate the varied nature of interactions between the physical earth, the environment, and humans
- Classify and discuss a variety of Earth's mineral and water resources
- Develop basic critical reasoning skills as they relate to the study of the earth
- Further develop thinking and working in 4 dimensions

Attendance: Attendance in this course is not kept but my experience as an instructor indicates attendance and marks are positively correlated. Interacting with the course material in different ways (lectures, quizzes, assignments, etc) aid in learning. In class activities cannot be completed outside class time. See below for explanation of how grades are calculated.

Accommodations: If you have access to accommodations, please use them. They are an important tool that allows you to access the material in the most effective way. If you have concerns about how your accommodations are being met, please reach out.

Grading Scheme

Reflections/Quizzes	10%
In class activities	10%
Assignments/Tutorials	40%
Midterm	12% (1 tests, no make ups)
Exam	28% (set by registrar. No alternate dates possible)

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COURSE ASSESSMENT COMPONENTS

Assignments and Tutorials:
We will be doing tutorials (in class) and assignments (out of class) throughout the term. Most materials will be supplied. These assessments are meant to give you an understanding of how what we are learning can be applied. Some assessments will support your growth as a scientist and a communicator. There will be associated readings/podcasts/ or videos that must be completed outside class time.
Tutorials: Tutorials will be assessments completed in class and usually handed in the same day. You will need a ruler, pencil, and calculator for some of them. There will be associated readings/podcasts/ or videos that must be completed outside class time.
Assignments: These will be completed outside of class time.
Late policy: Students missing a submission deadline should contact the instructor to arrange submission. The penalty for lateness is 20%/day. Once marks are released or assignments returned a mark of 0 will be recorded and submissions will no longer be accepted.

Reflections/Quizzes
Throughout the term, there will be online quizzes and/or reflections at least weekly. These will comprise 10% of your final grade
Quizzes: These are intended to aid your learning. These quizzes will be based on assigned reading or previous class work.
Reflections: An important part of scientific inquiry is reflecting on our learning. To aid this, there will be reflections on some of the course work. These should be no more than 200 words and can be submitted to the appropriate Assignment Dropbox.

In class activities
Short in-class reflections, questions, drawings, etc. will comprise 10% of your final grade. To accommodate illness, only the best 80% of these grades will be counted towards your final activities mark.

Midterm Test: The midterm test is worth 12% of your final grade and will be delivered during class time (**10th February**). There is no make-up test; if you miss a test for an acceptable reason, the exam will have a higher value. Please submit an SDA for missed tests BEFORE the test when possible. Email the instructor explaining your absence.

Exam: Faculty of Science requires all first-year science classes to have a formal exam (April 9th -26th). **Do not make travel arrangements until after the exam schedule is posted** in early February. Accommodations will not be made for students who leave before the scheduled exam.

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

A+ (90-100)	B+ (77-79.9)	C+ (65-69.9)	D (50-54.9)
A (85-89.9)	B (73-76.9)	C (60-64.9)	F (<50)
A - (80-84.9)	B- (70-72.9)	C- (55-59.9)	

Please note: *These components make up your final mark. There will be no redistribution of marks and no extra work given at the end of term. If you are concerned about your grades, please see me at the time the grade is given or within a reasonable period.*