



**Department of Geography – Orillia Campus.**

***Geography 3911 ‘Special topics in Geography’***

**“4Ga of history: the Geography & Geology of Canada”**

**Autumn 2017: September - December**

This course will provide you with a systematic review of the evolution of environments on planet Earth over the last 4500 million years, and in particular, the geology and geographic history of the North American continent and the Canadian landmass. Planet Earth is at least 4500 million years old (4.5 billion = 4.5 Ga meaning giga annum) and a direct geological (rock) record exists for at least the last 3.8 billion years in the form of volcanic, metamorphic and sedimentary rocks. The changing dynamics of convection deep within the Earth’s mantle and associated supercontinent assembly and breakup along with meteorite impacts, are now recognized as the major controls on development of the planet’s atmosphere, oceans, biology, climate and geochemical cycles. This course reviews this long history and how it has built the geography of Canada as we know it. We will trace the beginnings of plate tectonics on early Earth and the evolution of the modern continents. The effects of climate change on the Canadian landmass, especially glaciations of the last few million years will be reviewed.

**Credit weight: 0.5.**

**Wednesdays and Fridays 8:30am – 10:00am in OA2019**

**Instructor:** Lisa TUTTY BSc (hon) MSc      **Contact information:**

**Email:** ltutty@lakeheadu.ca (*that is an "L" for Lisa*); please email using your lakeheadu email and put the course code in the subject line. You can generally expect a response within 48 hours.

**Office hours:** are in **cubicle XX** on the third floor of Simcoe Hall, this is a *shared* cubicle and I am only there on Wed 11am-1pm.

**Course website:** through D2L (you will find lecture notes there, as well as much important information).

### **Course goals:**

By the end of this course, you will be able to:

- a) *Conduct scientific research* to create an academic poster OR a field trip report
- b) *Communicate scientific research* to your peers (poster OR field trip report)
- c) *Properly paraphrase and cite* (in APA format) *scientific literature* (poster OR field trip report)
- d) *Recall and apply course content* (knowledge and skills) to real life examples – assessed on tests.

### **Marks breakdown:**

**Midterm test** Friday October 6<sup>th</sup> in class – **25%** (multiple choice/'true and false'/'mix and match' + short answer)

**Term project:** Choose one of the two options

**Field trip and field trip report** Due Fri Dec 1 -**40%** (*if there is enough interest the trip will run Oc13-15*) OR

**Poster outline** (Due on Fri Oct 20<sup>th</sup> on D2L before end of day) – **5%** and **Academic poster** – **35%**

Note: work alone OR in pairs

(poster (30%) & poster conference (5%) DUE ON Fri Dec 1<sup>st</sup> in class)

**Examination** – **35%** (multiple choice/'true and false'/'mix and match' + short answer

+ long answer) Date/time will be scheduled by the University

*All tests and the examination will be held in an examination room setting (NOT online).*

## Course schedule found on page 8.

A+	90 to 100%	Outstanding understanding of the course concepts including integration of materials and ideas, ability to apply knowledge to situations
A	80 to 89%	
B	70 to 79%	Above average to excellent knowledge, ability to apply knowledge to situations
C	60 to 69%	Satisfactory knowledge including ability to recognise and apply major course concepts, and to progress to next level of course
D	50 to 59%	Some grasp of course concepts; will likely encounter difficulty with higher levels
E	40 to 49%	Failed to meet minimum requirements of the course
F	1 to 39%	Failure
F	0	Failure resulting from academic dishonesty

Mark descriptions from Lakehead University. Students are advised to refer to the University Calendar to ensure that they have adequate grades and/or average to proceed in their program. Grades in this course are numerical (not letters).

**Textbook:** Eyles, N and Miall, A (Aug 30, 2017). Canada Rocks: The Geologic Journey 2<sup>nd</sup> Edition.

### Course policies on lateness and absence:

Late submissions may be accepted however the late penalty is 10% per day, including weekends.

**Absences and lateness:** You may receive consideration for your late work (meaning no late penalty) if you submit the **Certificate of Illness or Incapacitation** (for all health related concerns) or an appropriate piece of documentation for other excuses (ex. certification from the funeral home for the death of a close relative). The proper documentation must be received as soon as possible after the missed deadline. For absences from the midterm test or an in-class activity for reasons of illness use the **Certificate of Illness or Incapacitation**, for compassionate reasons or representing the university off-campus you will require written documentation in order to be receive *potential consideration* for a test rewrite or assignment extension. The late penalty for assignments (without consideration as described above) is 10% per day late, including weekends. Late poster outline and poster assignments should be submitted to Lisa via the D2L

website. You may email copies of your documentation to Lisa but must submit proper paper copies when you return to class.

**Missed Examinations Due to Illness:** In cases where a student misses a formal examination due to an incapacitating illness, the student must have the **Certificate of Illness or Incapacitation** completed by a Medical Professional and submit the completed form to Enrolment Services no later than three (3) working days after the date of the original final examination. The **Certificate of Illness or Incapacitation** must be dated as seen by the Medical Professional no later than one (1) working day after the examination.

In other exceptional circumstances, official supporting documentation must be provided (e.g. copy of a death certificate or letter from the funeral home).

The **Certificate of Illness or Incapacitation** is the acceptable documentation for illness. It is available at:

[https://www.lakeheadu.ca/sites/default/files/forms/Certificate%20of%20Illness Incapacity.pdf](https://www.lakeheadu.ca/sites/default/files/forms/Certificate%20of%20Illness%20Incapacity.pdf)

## **Student services:**

Lakehead University has **counselling services, a nurse practitioner, and a naturopathic doctor** available, at the Wellness Centre-Orillia Campus the Centre makes appointments in person or by phone. Please contact the Centre at 705-330-4008 ext. 2115. The Wellness Centre is located in OA 1015.

<https://www.lakeheadu.ca/current-students/student-services/or/health-and-wellness>

The University provides academic accommodations for students with disabilities in accordance with the terms of the Ontario Human Rights Code. This occurs through a collaborative process that acknowledges a collective obligation to develop an accessible learning environment that both meets the needs of students and preserves the essential academic requirements of the University's courses and programs.

Lakehead University has a **Student Accessibility Services (SAS)** office which provides support services and advocacy on behalf of students with disabilities.

The SAS office is located in OA 1030 (Orillia Academic Building).

Phone: +1 (705) 330-4008 ext. 2103 Email: [ruffhwc@nhkdqx1fd#](mailto:ruffhwc@nhkdqx1fd#)

#

**Student Success Centre:** They have advisors, tutoring and peer-assisted learning and are located on the first floor of Simcoe Hall in OA 1031. This includes help with writing and editing and math. If you have questions please call 1 (705) 330-4008 ext. 2118 <https://www.lakeheadu.ca/current-students/student-success-centre/academic-support-zone/orillia>

**Lakehead University Library services:** Use it to search for journal articles for your poster project for example <http://library.lakeheadu.ca/>

**Technology Services Centre Helpdesk:** TSC Helpdesk is the liaison between Lakehead University's IT services and users (Students, Faculty & Staff and by extension to guests and visitors). The principal purpose of the Helpdesk is to provide quick resolution to inquiries. <https://www.lakeheadu.ca/faculty-and-staff/departments/services/tsc>

**Academic integrity – Code of student behaviour and disciplinary procedures.**  
<https://www.lakeheadu.ca/faculty-and-staff/policies/student-related/code-of-student-behaviour-and-disciplinary-procedures>

### **Academic Integrity:**

Academic integrity is fundamental to learning and scholarship at Lakehead University. Participating honestly, respectfully, responsibly, and fairly in this academic community ensures that the degree that you earn will be valued as a true indication of your individual academic achievement, and will continue to receive the respect and recognition it deserves. The University takes a most serious view of offences against academic honesty such as plagiarism, cheating and impersonation. Penalties for dealing with such offences will be strictly enforced.

The "Code of Student Behaviour and Disciplinary Procedures" including sections on plagiarism and other forms of misconduct may be found on the Lakehead University Senate website. See the Code under "Policies - Student Related" in the University Policies at [policies.lakeheadu.ca](http://policies.lakeheadu.ca).

**Potential offences include, but are not limited to:**

**In papers and assignments:**

- Using someone else's ideas or words without appropriate acknowledgement.
- Copying material word-for-word from a source (including lecture and study group notes) and not placing the words within quotation marks.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Including references to sources that you did not use.
- Obtaining or providing unauthorized assistance on any assignment including:
  - Working in groups on assignments that are supposed to be individual work;
  - Having someone rewrite or add material to your work while "editing".
  - Lending your work to a classmate who submits it as his/her own without your permission.

**On tests and exams:**

- Using or possessing any unauthorized aid, including a cell phone.
- Looking at someone else's answers
- Letting someone else look at your answers.
- Misrepresenting your identity.
- Submitting an altered test for re-grading.

**Misrepresentation:**

- Falsifying or altering any documentation required by the University, including doctor's notes.
- Falsifying institutional documents or grades.

The following rules shall govern the treatment of candidates who have been found guilty of attempting to obtain academic credit dishonestly.

(a) The minimum penalty for a candidate found guilty of plagiarism, or of cheating on any part of a course will be a zero for the work concerned.

(b) A candidate found guilty of cheating on a formal examination or a test, or of serious or repeated plagiarism, or of unofficially obtaining a copy of an examination paper before the examination is scheduled to be written, will receive zero for the course and may be expelled from the University.

Neat 15 minute exercise from Cardiff University (Avoiding plagiarism):

[https://xerte.cardiff.ac.uk/play\\_4216](https://xerte.cardiff.ac.uk/play_4216)

	Topic	Readings (Canada Rocks: The Geologic Journey, 2 <sup>nd</sup> Edition)
Week 1: W6Se F8Se	1. Plate tectonics (getting the basics down)	Chapter 2
Week 2: W13Se F15Se	2. a) Earth's internal structure; and b) Precambrian: Hadean (Earth's earliest history)	Chapter 1
Week 3: W20Se F22Se	3. Precambrian: Archean - Arctica (Slave Province, Superior Province; Huronian glaciation)	Chapter 3
Week 4: W27Se F29Se	4. Proterozoic – Nena & Columbia (Trans-Hudson, Thelon, Wopmay and Penokean orogenies; Sudbury structure, Midcontinent Rift)	Chapter 4
Week 5: W40c F60c	5. Proterozoic – The rise and fall of Rodinia (Grenville orogeny) and <b>MIDTERM TEST (F60c)</b>	Ch 4 again
Week 6: W110c F130c	Fall Break <b>FIELD TRIP FRI OCT 13-SUN OCT 15 INCLUSIVE – pending enough interest in the trip.</b>	
Week 7: W180c F200c	6. Late Proterozoic - Laurentia (Peneplanation, Ediacaran fauna) – (formation of the Canadian Shield)	Ch 4 again <a href="#">POSTER OUTLINE DUE Fri 20<sup>TH</sup> Oct on D2L</a>
Week 8: W250c F270c	7. Paleozoic – Life! (Cambrian high seas, Cambrian Explosion)	Chapter 5
Week 9: W1No F3No	8. Paleozoic – Eastern Canada (Pangea, Maritime Rift)	Chapter 6
Week 10: W8No F10No	9. Arctic (Arctic platform, Sverdrup and Franklinian basins)	Chapter 7
Week 11: W15No F17No	10. Mesozoic - Western Canada	Chapter 8
Week 12: W22No F24No	11. Glaciation of Canada	Chapter 9
Week 13: W290c F1De	12. a) Catch-up/review & b) <b>POSTER CONFERENCE F1De Posters and Field trip reports due</b>	

**\*Schedule subject to change.**