GEOG 2020A PHYSICAL ENVIRONMENTS OF CANADA
Department of Geography and Environmental Studies, Carleton University [0.5 credit]

Course Outline: Fall 2017  DRAFT

**IMPORTANT DATE:** Mandatory Field Trip – Sunday 24th September (all day trip to Renfrew and Eganville)

**Instructor:**
Dr. Joyce Lundberg, Room A327 LA, 613 520-2600 Ext. 2571, joyce.lundberg@carleton.ca (**put GEOG 2020 in the subject**).
Office hours: Fridays 9:30 - 11:00 am, or email me to make an appointment.

**Schedule:** Lectures: Mondays and Wednesdays 8:35 am - 9:55 am, Location TBA: possibly SA 403

**Calendar entry:**
Canada's physiography, climates, biogeography, soils, and landforms.
Prerequisite(s): GEOG 1010 or ERTH 1006 or ERTH 1010 or ISCI 1001. Precludes additional credit for GEOG 2102.

**Course description:**
Canadians have a strong sense of pride in the physical environment; it is a big part of the Canadian psyche, and we would all like to understand it better. The land base is vast, the physical landscapes are wonderfully varied, the processes in action interestingly diverse. This course will apply the principles that you have already learnt in GEOG 1010 to Canada. The aim is (1) to provide a general survey of Canada’s physical environments, a broad examination of the different processes that shape Canada as we know it; and (2) to highlight individual features of the Canadian physical environment that are particularly special.

I hope to focus on the positive aspects of Canada’s physical heritage. We hear plenty about problems but not enough about wonderful things. By the end of the course you should have a basic understanding of the physical features of Canada and be able to reply when your kid says: “Why can’t we go to Florida … what’s so special about Canada?” A very important part of the course is the one-day field trip.

Topics will include:
- Rocks, Surface deposits, Soils
- Climate, Vegetation, Ecological regions
- Water, Weather, Climate
- Glaciers, Landslides, Rivers
- Dunes, Coasts, Permafrost

Class schedule included at end of this document (page 5).

**Recommended readings:**
There is no one textbook that covers the breadth of material in this course, so there is no required text. However, there are readings and it is important that you do them (see list on cuLearn)

Useful general textbooks:
It will be most helpful if you revise what you learned in GEOG 1010 by reading the relevant parts of a physical geography textbook before you come to class. Any Canadian edition of a Physical Geography textbook will be fine. Examples include:

**Christopherson and Byrne:** Canadian Geosystems: An Introduction to Physical Environments, 2nd
You probably already have this from GEOG 1010. It is very good for revising the basic material.


Other useful books:
*These seven books are available on reserve at the MacOdrum Library

cuLearn:
I use “cuLearn” to communicate information about the course.

Format:
Most of the topics will have two parts: a general lecture to provide an overview of how that topic relates to Canada; and a couple of focus topics that highlight particular features or places. I plan to have a number of guest speakers outlining key issues in Canadian physical geography. The final two classes will be a mini-conference where you present your posters. There is an in-class mid-term test and a final scheduled exam. Class schedule is included at the end of this document. Note that the final day of term, Friday Dec 8, follows a Monday schedule (to make up for missing Thanksgiving Monday). The mid-term test (in-class) is scheduled for Monday 30th October

Evaluation:
Attendance and class activities: 12%
Assignments: 40%
Mid-term test: 22%
Final exam: 26%

- Format of tests will include some multiple-choice questions, some diagram questions (such as filling in labels, interpreting graphs or maps), and some short answer questions (such as fill-in-the-blanks, or definitions). Tests are not cumulative – the two tests each cover approximately one half of the course material.
- Criteria for grading include spelling, grammar, format as well as academic content, especially for assignments.
- Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by the instructor may be subject to revision. No grades are final until they have been approved by the Dean.

Field trip:
We will have a one-day field trip on Sunday September 24. This will include a visit to Bonnechere caves, for which there is a ~$15 charge. You are expected to keep a field notebook, which will be handed in at the end of the trip. It is worth 10%. There is no alternative to this field trip, so please make sure that you arrange your schedule accordingly.
Assignments: There will be three assignments throughout the term, in total worth 40%: 1. Field trip notebook as noted above (10%); 2. Google Earth exploration (10%); 3. Poster (20%).

For all the exercises you may collaborate with others in working through the assignments, but you must prepare and submit your own separate report or poster, written in your own words. Please take note of Carleton’s policy on plagiarism (below), especially for the poster. All illustrative material must be carefully acknowledged (including material produced by fellow students). Late assignments (unless accompanied by relevant documentation such as a doctor’s note) will be deducted marks at 5% a day.

Examinations:
There will be one in-class term test (given in the normal lecture period) and a final exam (held during the scheduled exam period at the end of term). These will be in the form of short answers, diagrams, etc. The content of the tests will be discussed in class prior to their respective dates. All test papers may be viewed by the student but are retained by the instructor.

Notes:
Make sure you are properly registered. You should ensure that you have the skills required to take the course. It is important that you have done a first year prerequisite.

Academic conduct:

Instructional & Conduct Offences:

Instructional offences include among other activities cheating, contravening examination regulations, plagiarism, submitting similar work in 2 or more courses without prior permission, and disrupting classes. Conduct offences apply in areas of discrimination and sexual harassment. Further information about University regulations which define and regulate these offences is presented in the 2010-11 UG Calendar:


Some of the section on plagiarism is reproduced below, because it is the most common academic offence, and one that can sometimes be committed inadvertently. (Please note that plagiarism also applies to images that you present without acknowledgement).

Plagiarism:

Plagiarism will not be tolerated. Students should consult the Academic Integrity Policy at http://www2.carleton.ca/studentaffairs/academic-integrity.

Plagiarism: The University Senate defines plagiarism as “presenting, whether intentionally or not, the ideas, expression of ideas or work of others as one’s own.” This can include:

- reproducing or paraphrasing portions of someone else’s published or unpublished material, regardless of the source, and presenting these as one’s own without proper citation or reference to the original source;
- submitting a take-home examination, essay, laboratory report or other assignment written, in whole or in part, by someone else;
- using ideas or direct, verbatim quotations, or paraphrased material, concepts, or ideas without appropriate acknowledgment in any academic assignment;
• using another’s data or research findings;
• failing to acknowledge sources through the use of proper citations when using another’s works and/or failing to use quotation marks;
• handing in "substantially the same piece of work for academic credit more than once without prior written permission of the course instructor in which the submission occurs."

Plagiarism is a serious offence, which cannot be resolved directly with the course’s instructor. The Associate Deans of the Faculty conduct a rigorous investigation, including an interview with the student, when an instructor suspects a piece of work has been plagiarized. Penalties are not trivial. They can include a final grade of "F" for the course.

Requests for Academic Accommodations
You may need special arrangements to meet your academic obligations during the term because of disability, pregnancy, or religious obligations. Please review the course outline and write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website:
http://www2.carleton.ca/equity/

Students with disabilities requiring academic accommodations in this course must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Documented disabilities could include but are not limited to mobility/physical impairments, specific Learning Disabilities (LD), psychiatric/psychological disabilities, sensory disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), and chronic medical conditions. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca. Registered PMC students are required to contact your PMC coordinator no later than two weeks before the first in-class scheduled test or exam requiring accommodation to ensure that your instructor receives your Letter of Accommodation. If you only require accommodations for your formally scheduled exam, please submit your request for accommodations to PMC by Nov. 10 (see http://www2.carleton.ca PMC/new-and-current-students/dates-and-deadlines/)
The eight topics that I plan to cover include: Geology, Climate, Fluvial, Glacial, Periglacial, Quaternary history, Soil, Biomes. The schedule below is what I hope to follow, but I may have to shift dates around depending on availability of guest speakers (they give their time voluntarily, so we need to be flexible). I have invited three guest speakers to give talks of about 40 minutes each.

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture topic</th>
<th>Notes, deadlines, etc.</th>
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<tbody>
<tr>
<td>Wed Sep 6</td>
<td>Introduction to course</td>
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<tr>
<td>Mon Sep 11</td>
<td>Canada’s Geology</td>
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<tr>
<td>Wed Sep 13</td>
<td>Contd.</td>
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<tr>
<td>Mon Sep 18</td>
<td>Contd.</td>
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<tr>
<td>Wed Sep 20</td>
<td>Local environments of Ottawa region (preparation for field trip)</td>
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<tr>
<td>SUNDAY Sep 24</td>
<td>FIELD TRIP – all day</td>
<td>Field notebook to be handed in at end of day. Worth 10%</td>
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<td>Mon Sep 25</td>
<td>NO CLASS</td>
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<tr>
<td>Wed Sep 27</td>
<td>Canada’s climate</td>
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<td>Mon Oct 2</td>
<td>Contd.</td>
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<tr>
<td>Wed Oct 4</td>
<td>Guest speaker … Tom Zagon – Sea ice and Arctic Shipping (TBC)</td>
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<tr>
<td>Mon Oct 9</td>
<td>No classes (Thanksgiving)</td>
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<tr>
<td>Wed Oct 11</td>
<td>Canada’s rivers &amp; Hydrology</td>
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<td>Mon Oct 16</td>
<td>Contd.</td>
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<tr>
<td>Wed Oct 18</td>
<td>Guest speaker … Greg Brooks – Flooding (TBC)</td>
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<td>Oct 23 - 27</td>
<td>STUDY BREAK</td>
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<td>Mon Oct 30</td>
<td>MID-TERM TEST</td>
<td>Covers material up to and including Oct 18. Worth 22%</td>
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<tr>
<td>Wed Nov 1</td>
<td>Canada’s Glaciers</td>
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<td>Mon Nov 6</td>
<td>Contd.</td>
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<td>Wed Nov 8</td>
<td>Periglacial landforms</td>
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<td>Mon Nov 13</td>
<td>Quaternary climate change</td>
<td>Google Earth assignment due (Worth 10%). Please submit electronically.</td>
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<td>Wed Nov 15</td>
<td>Guest speaker … Steve Wolfe – Climate Change in Prairies (TBC)</td>
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<td>Mon Nov 20</td>
<td>Canada’s Soils</td>
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<td>Wed Nov 22</td>
<td>Contd.</td>
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<tr>
<td>Mon Nov 27</td>
<td>Canada’s Biomes</td>
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<td>Wed Nov 29</td>
<td>Contd.</td>
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<td>Mon Dec 4</td>
<td>Contd.</td>
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<tr>
<td>Wed Dec 6</td>
<td>POSTER session</td>
<td>Poster due 8 am</td>
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<tr>
<td>FRIDAY Dec 8</td>
<td>POSTER session</td>
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<td>TBA</td>
<td>FINAL EXAM</td>
<td>Covers material from Nov 1 to end of term. Worth 26%</td>
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