

GEOG 1010B – Course Outline – Winter 2017 (DRAFT – SUBJECT TO MODIFICATION)

Department of Geography and Environmental Studies, Carleton University

COURSE	Global Environmental Systems – GEOG 1010B (0.5 credit) Dept. of Geography and Environmental Studies Carleton University
DESCRIPTION	Principles, processes and interactions in the Earth's environment emphasizing the flow of energy and matter within global systems. Atmospheric and oceanic processes, earth surface processes and biogeochemical cycling. Case studies on the interaction between human activity and the natural environment.
INSTRUCTOR	Dr. Wesley Van Wychen Office: To be announced e-mail: To be announced (please put GEOG1010B in subject line)
OFFICE HOURS	To be announced
PREREQUISITES	None
LECTURES	All labs to take place in A120 Loeb building Times to be announced.
LABS	To be announced
TEXTBOOK	Christopherson, RW, Birkeland, G.H., Byrne, M-L, and Giles, P. 2016. <i>Geosystems: An introduction to Physical Geography Fourth Canadian Edition</i> . Pearson: Toronto
	The course text will be available on 4-hour reserve at the MacOdrum Library
TEACHING ASSISTANTS	To be announced
EVALUATION	40% 8 laboratory assignments worth 5% each 18% Test#1 (held in class) 18% Test#2 (held in class) 24% Final Exam (scheduled during final exam period)

Lab Assignments: There will be 8 lab assignments which will comprise 40% ($8 \times 5\%$ each) of the final grade. Participation in all labs is mandatory. All labs are to be submitted at the beginning (within the first 10 minutes) of the lab session they are due, all lab assignments submitted after this time will receive a penalty (5% of the total points available). Working in groups to complete lab assignments is allowed, however, all lab assignments submitted for evaluation MUST be completed individually. Lab assignments will be due one week after they are assigned, unless alternate arrangements are made with the instructor (with a valid reason). All late labs will be subject to a penalty of 5% per day and will not be accepted after lab assignments have been distributed back to students. All lab assignments should include a title page, which clearly indicates the course code (GEOG 1010B),

the instructor name (Wesley Van Wychen), your name, your lab section and your TA's name. Please note that only hard copies will be accepted for evaluation, electronic copies sent by e-mail will not be accepted.

Tests and Exams: Two in-class exams (worth 18% each; duration 1.5 hours) and one final exam (worth 24%; duration 3 hours and scheduled during the final exam period) will comprise a total of 60% of the total evaluation. The style of questions for these test/exams will be multiple choice, short answers, diagrams etc. and the content of each test will be discussed in the classes leading up to each test/exam. Tests and exams will be comprised of material covered in lectures, in lab assignments and from assigned readings.

Accommodations: If you miss a lab assignment or a test and have a valid reason (e.g. illness), written documentation (such as a Doctor's note) needs to be provided. Please provide the documentation to the instructor as soon as possible. Alternate arrangements, so that the student can complete the missed lab assignment or test/exam will be made in consultation with the instructor.

You may need special arrangements to meet your academic obligations during the term. You can visit the Equity Services website to view the policies and to obtain more detailed information on academic accommodation at <http://www.carleton.ca/equity/>. For an accommodation request the processes are as follows:

Pregnancy obligation: 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.

Religious obligation: 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.

Academic Accommodations for Students with Disabilities: The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable) at

<http://carleton.ca/pmc/students/dates-and-deadlines/>

Help with Laboratory and Lecture Materials: If you require help with lecture materials, lab assignments or examinations please see the instructor and teaching assistance during their office hours. If you are unable to meet during scheduled office hours, please contact the instructor or teaching assistants to make alternate arrangements.

Peer Assisted Study Sessions (PASS): Carleton University offers weekly peer-assisted study sessions led by trained students that have excelled in the course material in previous years. More information about these sessions can be found here: (<http://www2.carleton.ca/sasc>).

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 that cannot be resolved directly by the course's instructor. The Associate Dean of the Faculty conducts 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.

GEOG 1010B Course Content: Winter 2017 Schedule (Draft, subject to modification)

DATE	TOPICS	TEXTBOOK READINGS	LABS
INTRODUCTION TO PHYSICAL GEOGRAPHY (Week 1)			
		WEEK 1	
Lecture 1:	Course introduction	Chapter 1: Essentials of geography	No Lab
Lecture 2:	Introduction to physical geography	Chapter 1: Essentials of geography (con't)	
ENERGY AND THE ATMOSPHERE (Weeks 2-4)			
		WEEK 2	
Lecture 3:	Solar energy and the atmosphere	Chapter 2 The energy-atmosphere system	Optional Lab assigned
Lecture 4:	The energy balance	Chapter 4: The earth's modern atmosphere	
WEEK 3			
Lecture 5:	The Earth's temperature	Chapter 5: Global temperatures	Lab 1 assigned (due in one week)
Lecture 6:	Circulations (atmospheric and oceanic)	Chapter 6: Atmospheric and oceanic circulations	
WEEK 4			
Lecture 7:	Water and the atmosphere	Chapter 7: Water and atmosphere moisture	Lab 2 assigned (due in one week)
Lecture 8:	Weather	Chapter 8: Weather	
THE LITHOSPHERE (Weeks 5-9)			
		WEEK 5	
Lecture 9:	IN-CLASS TEST (18%) covering material from week 1-4		No lab assigned this week
Lecture 10:	The Lithosphere	Chapter 12: The dynamic planet	
		WEEK 6	

Lecture 11:	Plate tectonics and earthquakes	Chapter 13: Tectonics, earthquakes and volcanism	Lab 3 assigned (due in one week)
Lecture 12:	Volcanism	Chapter 13: Tectonics, earthquakes and volcanism (con't)	

WEEK 7

STUDY BREAK – NO CLASSES

		WEEK 8	
Lecture 13:	Erosion and weathering processes	Chapter 14: Weathering, karst landscapes and mass movements	Lab 4 assigned (due in one week)
Lecture 14:	Mass movement	Chapter 14: Weathering, karst landscapes and mass movements (con't)	

WEEK 9

Lecture 15:	Sediments and soils	Chapter 18: The geography of soils	Lab 5 assigned (due in one week)
Lecture 16:	Eolian process and arid environments		

EARTH SYSTEMS AND PROCESSES (Weeks 10-13)

		WEEK 10	
Lecture 17:	IN-CLASS TEST (18%) covering material from weeks 6-9		No Lab this week
Lecture 18:	Fluvial processes (rivers)	Chapter 15: River systems	

WEEK 11

Lecture 19:	Fluvial processes (Rivers)	Chapter 15: River systems (con't)	Lab 6 assigned (due in one week)
Lecture 20:	Fluvial processes (Oceans)	Chapter 16: Oceans, coastal systems and wind processes	

WEEK 12

Lecture 21:	Fluvial processes (oceans)	Chapter 16: Oceans, coastal systems and wind processes (con't)	Lab 7 assigned (due in one week)
Lecture 20:	Glaciers and glacier processes	Chapter 17: Glacial and periglacial Landscapes	

WEEK 13

Lecture 21:	Permafrost and permafrost processes	Chapter 17: Glacial and periglacial Landscapes (con't)	Lab 8 assigned (due in one week)
Lecture 22:	Ecosystems	Chapter 18: Ecosystem essentials	

WEEK 14

Lecture 23:	Biomes	Chapter 20: Terrestrial biomes	
Lecture 24:	Course Exam Review – Exam worth 24% of final grade (date, time and location to be determined)		