APPLIED SCIENCE AND MANAGEMENT DIVISION
GEOG 101 AND GEOG 101L
3 Credit Course
Fall, 2019

COURSE OUTLINE

GEOG 101 & GEOG 101 Lab

Introduction to Physical Geography I

3 CREDITS

PREPARED BY: Pamela Godin, Instructor
DATE: September 3, 2019

APPROVED BY: Stephen Mooney, Interim Dean, ASM
DATE: September 4, 2019

APPROVED BY ACADEMIC COUNCIL: Click or tap to enter a date
RENEWED BY ACADEMIC COUNCIL: Click or tap to enter a date

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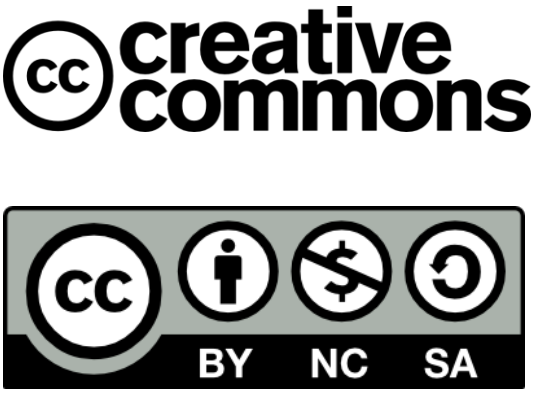

Version 1.1 revised and approved by Academic Council: June 20, 2018
Academic Council, Governance Office
Academic Council MyYC: Policies, Procedures and Forms

APPLIED SCIENCE AND MANAGEMENT DIVISION
GEOG 101 AND GEOG 101L
3 Credit Course
Fall, 2019

COURSE TITLE

INSTRUCTORS: Pamela Godin (Lecture)
Stephanie Saal (Lab)

OFFICE HOURS: By Appointment

OFFICE LOCATION: NR 32 Yukon Research Centre

CLASSROOM: A2313 (Lab A2801)

E-MAIL: pgodin@yukoncollege.yk.ca
saal@yukoncollege.yk.ca

TIME: Tuesdays 6-8:55pm
Thursdays 6-8:55pm (Lab)

TELEPHONE: 867-456-6969

DATES: September 10 – December 10, 2019

COURSE DESCRIPTION

GEOG 101 and GEOG 101L is an introduction to the physical environment and methods of earth system research. The basic principles and processes that govern climate-weather-water systems on the surface of the earth will be examined from a systems perspective. Natural and human-induced changes in environmental systems through time will also be addressed. Issues of spatial and temporal scale, in the context of earth systems, will be demonstrated by field and laboratory investigations and principles of geographic information systems and remote sensing. The course will highlight a range of current research taking place throughout Yukon. GEOG 101 is the complementary course of GEOG 102.

PREREQUISITES

None.

RELATED COURSE REQUIREMENTS

None.

EQUIVALENCY OR TRANSFERABILITY

This course is new/newly developed/recently re-developed, and its transferability is still being evaluated. Receiving institutions always determine course transferability. Further information and assistance with transfers may be available from the School of Science.

LEARNING OUTCOMES
Upon successful completion of the course, students will be able to:

1. Understand the processes that govern Earth's weather, climate, and hydrological systems.
2. Understand the concept of earth systems research including the interactions between the landscape, climate, and biophysical features.
3. Have developed some comfort in a laboratory setting.
4. Be able to provide examples of current research and work taking place throughout the Yukon Territory and understand its implications.
5. Be able to critically analyze current media surrounding global climate change.

COURSE FORMAT
The class will combine lectures and laboratory exercises.

Lectures
Lectures will primarily follow the course text but will expand upon the material covered. Current Yukon research will be highlighted throughout the course material.

Laboratory Exercises
Laboratory exercises will explore geographic principles introduced in the lectures and readings. They are designed to give students experience with tools used in Geography.

ASSESSMENTS:

Attendance & Participation
Attendance of both the lectures and labs are highly recommended in order to pass the course. Labs are important to attend in order to work on assignments that can only when you are in the lab.

Assignments

Lecture Assignments
There will be two lecture assignments.

Assignment #1: You will compare two climate data sets for Yukon – a historical dataset collected by the Whitepass and Yukon Route prior to the inception of Environment Canada monitoring and a "present day" dataset from Whitehorse Airport. You will graphically display results and provide a written analysis interpreting the differences. **Due on at start of class on October 22nd.**

Assignment #2: You will read, digest, and critique 10 pieces of current media discussing climate change/global warming and then present your findings in a five-page report

(double-spaced, 12 point font). The goal of this assignment is to introduce you to how science is presented in the media, to learn to critically evaluate, and to learn to articulate and present your work. **Due at start of class on December 3rd.**

Laboratory Assignments
Laboratory assignments will generally take the form of question sets that can be answered through hands-on participation in laboratory sessions. They will be due at the beginning of the subsequent lab period. You should bring a pen, pencil, coloured pencils, a ruler, calculator, and protractor to labs.

Tests
A mid-term examination is scheduled during class on **Tuesday, October 29th**. The final examination will be scheduled on **Tuesday, December 10th**. It is vital that students wait to schedule any travel plans until they know their exam schedule as exceptions will not be made for missed exams.

EVALUATION:

Lab Assignments	40%
Lecture Assignments	30%
Midterm Exam	10%
Final Exam	20%
Total	**100%**

REQUIRED TEXTBOOKS AND MATERIAL

Lecture material will be based on: Christopherson, R.W., Birkeland G.H., Byrne, M.L., and Giles, P.T. 2016. Geosystems: An introduction to Physical Geography. Updated 4th Canadian Edition. Pearson Canada, Inc.: Toronto. 768 pp. You may purchase the e-text access card.

A copy of the textbook will be on reserve for short-term loan at the Learning Commons.

There are two alternatives to the course text. You may use the hardcover 4th edition of Geosystems, or an open educational resource (OER) alternative to the textbook. The OER version is available from the following link:
https://www.opengeography.org/physical-geography.html

Content is largely similar, so you may choose to use the online material as a study tool, however, exams and lecture materials will be based on the electronic copy of the textbook.

Laboratory materials will be distributed during the lab sessions. Various other reference materials may be used throughout the course. These will be announced by the course instructor prior to a required reading assignment.

ACADEMIC AND STUDENT CONDUCT

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/ Admissions & Registration web page.

**PLAGIARISM

Plagiarism is a serious academic offence. Plagiarism occurs when a student submits work for credit that includes the words, ideas, or data of others, without citing the source from which the material is taken. Plagiarism can be the deliberate use of a whole piece of work, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Students may use sources which are public domain or licensed under Creative Commons; however, academic documentation standards must still be followed. Except with explicit permission of the instructor, resubmitting work which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the College.

YUKON FIRST NATIONS CORE COMPETENCY

Yukon College recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon College program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see www.yukoncollege.yk.ca/yfnccr.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon College Academic Regulations (available on the Yukon College website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact the Learning Assistance Centre (LAC): lac@yukoncollege.yk.ca.

TOPIC OUTLINE

Date		Topic	Notes
September	**10**	**Course Intro and Essentials of Geography**	Chapter 1
	12	Lab 1 – Map Reading	
	17	**Flattening the Earth**	Chapter 1 & 2
	19	Lab 2 – Energy Distribution	Lab 1 DUE
	24	**Reasons for Seasons**	Chapter 2
	26	NO LAB	Lab 2 DUE
October	**1**	**Earth's Atmosphere**	Chapter 3
	3	Lab - Excel Workshop	
	8	**Atmosphere & Surface Energy Balances**	Chapter 4
	10	Lab 3 - Temperature	
	15	**Global Temperatures**	Chapter 5
	17	Lab 4 - Wind	Lab 3 DUE
	22	**Midterm REVIEW**	Assignment #1 DUE
	24	NO LAB – HAPPY STUDYING	Lab 4 DUE
	29	**Midterm EXAM (10%)**	
	31	NO LAB	
November	**5**	**Atmospheric & Oceanic Circulation**	Chapter 6 & 7
	7	Lab 5 - Humidity	
	12	**Weather**	Chapter 8
	14	Working Period	Lab 5 DUE
	19	**Water Resources**	Chapter 9
	21	Lab 6 – Water Budget	
	26	**Global Climate & Climate Change**	Chapter 10
	28	Lab 7 – Climate Change	Lab 6 DUE
December	**3**	**Final Exam Review**	Assignment #2 DUE
	5	NO LAB	Lab 7 DUE
	10	**FINAL EXAM**	