

**GEOGRAPHY COURSE OUTLINE: FALL 2017**

**GEOGRAPHY 313  
H (3-2)**

**Soils and Vegetation**

<b>Soils and</b>	<b>Days</b>	<b>Time</b>	<b>Location</b>
LEC 01	TuTh	09:30 - 10:45	ES 443
LAB 01	We	14:00 - 15:50	ES 355
LAB 02	Th	11:00 - 12:50	ES 355
LAB 03	Fr	14:00 - 15:50	ES 355

Instructor: David Goldblum	Office: ES 356
Tel: 220 3930	Email: <a href="mailto:david.goldblum@ucalgary.ca">david.goldblum@ucalgary.ca</a>

***The appropriate emergency evacuation assembly point for classes taught in Earth Sciences is ICT Food Court.***

**Official Course Description:**

Soil: physical, chemical and biological properties, and the environmental and spatial relationships of vegetation patterns.

**Course Objectives:**

The primary objective of this course is to expand upon the foundations of soil and biogeography (vegetation) knowledge provided in GEOG 211. The course has two primary foci: 1) provide a background and understanding of soil forming processes, soil chemistry, soil biology, and spatial patterns of soils from local to global scales, and 2) describe global patterns of vegetation structure and productivity and their relationships with climate and soils.

Labs support course material concisely with activities investigating fundamental soil physical properties, global patterns of soil water and vegetation productivity and interaction between and and vegetation.

<b>Course Learning Outcomes</b>	<b>PLO(s)</b>	<b>Level(s)</b>
Describe the physical and chemical properties of soil	<b>2</b>	<b>2</b>
Explain soil forming processes and the spatial pattern of soils at local to global scales	<b>2</b>	<b>2</b>
Perform standard laboratory methods for determining soil properties	<b>3</b>	<b>1</b>
Understand the physical and biological factors controlling vegetation	<b>2</b>	<b>2</b>
Comprehend global biomes and the processes behind their distribution	<b>2,6</b>	<b>2</b>
Distinguish between human and natural impacts on soil and vegetation	<b>2</b>	<b>2</b>
Analyze how human activity impacts soil and vegetation systems	<b>2,4</b>	<b>2</b>
Write reports that summarize experiments	<b>7</b>	<b>1,2</b>

**PLOs = Program Learning Outcomes:** 1 = reflect and communicate diverse human-environment perspectives, 2 = identify and explain human-environment processes, 3 = implement sampling, data collection, analyses and communication methods, 4 = analyze spatial and temporal aspects of human-environment systems, 5 = employ knowledge, arguments, and methodologies for solving human-environment problems, 6 = evaluate geospatial data and manipulate it to create cartographic products, 7 = communicate geographic concepts using oral, written, graphic, and cartographic modes, and 8 = demonstrate literacy skills. **Levels:** (1) Introductory, (2) Intermediate, (3) Advanced.

**Prerequisites:** Geography 211

**Supplementary Fees:** (field trips etc). N/A

**Required texts:** none

**Recommended texts:**

1. Ashman, M.R. and Puri, G. 2002. *Essential soil science: a clear and concise introduction to soil science*. Blackwell Publishing.
2. Woodward, S.L. 2003. *Biomes of the Earth*. Greenwood Press.

Supplementary reference material will be posted on D2L

**Grading:**

Tests (2 × 27.5%): 55% of course

Labs (5 × 7%): 35% of course

Final exam: 10% of course

The final examination will be on the last day of class. It is not essential to pass all elements of the course to pass the course as a whole. Students must earn an overall 50% or higher to pass the course.

**Late policy:**

Lab assignments are required to be prepared individually. They are due at the beginning of the following scheduled lab session as posted on D2L. Unexcused late submissions (unless accompanied by a medical doctor's note) will be assessed a penalty of 20% per day.

**Grading System:**

96-100 A+	77-80 B	59-61 C-
90-95 A	71-76 B-	55-58 D+
86-89 A-	65-70 C+	50-54 D
81-85 B+	62-64 C	< 50 F

**For additional detailed course information posted by the Instructor Desire2Learn at <https://d2l.ucalgary.ca/d2l/home>**

**Human subjects**

Students are not expected to participate as subjects or researchers in this course.

**USRI**

At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses ([www.ucalgary.ca/usri](http://www.ucalgary.ca/usri)). Your responses make a difference - please participate in USRI Surveys.

### **Writing across the Curriculum**

Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their University courses and, where appropriate, members of faculty can and should use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Support Services can be utilized by all undergraduate and graduate students who feel they require further assistance.

### **Principles of Conduct**

The University of Calgary Calendar includes a statement on the Principles of conduct expected of all members of the University community (including students, faculty, administrators, any category of staff, practicum supervisors and volunteers) whether on or off the University's property. This statement applies in all situations where the members of the University community are acting in their University capacities. All Members of the University Community have a responsibility to familiarize themselves with this statement which is available at: <http://www.ucalgary.ca/pubs/calendar/current/k.html>

### **Internet and electronic communication device information:**

No restriction on the use of laptops and tablets in class if they are used to take notes or find information relevant to the class, and if there is *no disturbance or distraction of other students or the instructor*. Phones must be turned off during class time unless you are a health care or law enforcement professional with appropriate ID.

### **Plagiarism**

Academic dishonesty is not an acceptable activity at the University of Calgary and students are **strongly advised** to read the Student Misconduct section in the University Calendar. Quite often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are 1) presenting another student's work as your own 2) presenting an author's work or ideas as your own without proper referencing and 3) using work completed for another course. This activity will not be tolerated in this course and students conducting themselves in this manner will be dealt with according to the procedures outlined in the calendar: <http://www.ucalgary.ca/pubs/calendar/current/k-5.html>

### **Academic Accommodations:**

Students needing an accommodation because of a Disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities. The procedure can be found at:

[ucalgary.ca/policies/files/policies/student-accommodation-policy](http://ucalgary.ca/policies/files/policies/student-accommodation-policy)

Students needing an accommodation based in relation to their coursework or to fulfil requirements for a graduate degree, on a Protected Ground other than Disability, should communicate this need, preferably in writing to their instructor or the appropriate Associate Dean or Department Head.

[ucalgary.ca/policies/files/policies/student-accommodation-policy](http://ucalgary.ca/policies/files/policies/student-accommodation-policy)

Students needing an Accommodation unrelated to their coursework or the requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience).

### **Freedom of Information and Protection of Privacy**

*FOIP*: The Freedom of Information and Protection of Privacy (FOIP) legislation disallows the practice of having students retrieve assignments from a public place, e.g., outside instructor's office, the department office, etc. Term assignments will be returned to students individually, during class or during the instructor's office hours; if students are unable to pick up their assignments from the instructor, they provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

### **Re: Posting of Grades and Picking-up of Assignments**

- All assignments will be handled through D2L or personally.
- Their own grades will be available to each student on D2L by password access. Grades will **not** be available at Geography's main office.

### **Contact Information for Student and Faculty Representation**

- SU VP Academic Phone: 220-3911 and e-mail: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca)
- SU Faculty Rep. Phone: 220-3913 and e-mail: [arts1@ucalgary.ca](mailto:arts1@ucalgary.ca)

The students ombudsman office information can be found at:

<http://www.su.ucalgary.ca/page/affordability-accessibility/su-structure/contact-info>

### **Campus Safewalk**

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day, to any location on Campus including the LRT, parking lots, bus zones and University residences. Contact Campus Security at 220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your Campus destination.

### **Faculty of Arts Program Advising and Student Information Resources**

- Have a question, but not sure where to start? The new Faculty of Arts Students Centre is your information resource for everything in Arts! Drop in at SS 102, call us at 403-220-3580 or email us at [ascarts@ucalgary.ca](mailto:ascarts@ucalgary.ca) you can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at (403) 210 7625 or visit them at the MacKimmie Library Block.

Contact for Students Union Representatives for the Faculty of Arts:

[arts1@su.ucalgary.ca](mailto:arts1@su.ucalgary.ca), [arts2@su.ucalgary.ca](mailto:arts2@su.ucalgary.ca), [arts3@su.ucalgary.ca](mailto:arts3@su.ucalgary.ca), [arts4@su.ucalgary.ca](mailto:arts4@su.ucalgary.ca)