



GEOGRAPHY FINAL COURSE OUTLINE: WINTER 2017
GEOGRAPHY 415
H(3-2)

Hydrology

Section	Days	Times	Location
LEC 01	MoWeFr	09:00 – 09:50	ES 920
LAB 01	Mo	14:00 – 15:50	ES 415
LAB 02	Tu	15:30 – 17:20	ES 415

Instructor: Brent Else	Office: ES 340
Telephone: 220 2484	Email: belse@ucalgary.ca

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

Official Course Description:

The physical basis of water resource management. Elements of the hydrologic cycle: precipitation, ground water and stream flow. Introduction to the physical hydrology of different landscapes (e.g., permafrost and mountain terrain) and to methods in catchment hydrology.

Course Goals:

Students in this course will learn to:

1. Understand the hydrologic cycle and the water balance equation as a unifying framework for studying and managing freshwater.
2. Use various techniques to measure, model, or calculate flows and reservoirs within the hydrological cycle.
3. Connect concepts of hydrology to physical geography (meteorology, geomorphology, soils & vegetation, ecology) and human geography (land use, energy & economy, urban planning, sustainability).
4. See themselves as part of the hydrological cycle, and understand the needs and demands that others place on the hydrological cycle.
5. Be excited about hydrology, and understand it as a broad field of study with many practical applications.

Required Texts:

None. Readings will be provided.

Prerequisites:

Geography 305 or 307 and 339, or a course in statistics, by consent of the Department.

Grading (Weighting):

There is a final examination, to be scheduled by the Registrar's Office. It is not essential to pass all elements/components to pass the course as a whole.

- Lab Assignments: 36% (6 assignments @ 5% each)
- Quizzes: 14% (4 quizzes @ 3.5% each)
- Midterm Exams: 40% (2 @ 20% each)
- Final Review test: 10% (Last day of class)

Grading System:

94-100	A+	74-78	B	60-63	C-
86-94	A	70-74	B-	55-50	D+
82-86	A-	67-70	C+	50-55	D
78-82	B+	63-67	C	0-50	F

In this course, most assignments will be assessed using a rubric. Rubrics communicate expectations for course work, and provide a framework for assessment. This approach applies to the course as a whole, and students can expect letter grades to reflect the following criteria of achievement:

Grade	Criteria
F	Student cannot display a basic understanding of course materials
D	Student displays only a basic understanding of course materials
C	Student has a modest understanding of course materials, and can apply those understandings in basic problem solving.
B	Student has a good understanding of course materials, and can make connections between various course topics to solve interconnected problems.
A	Student has an excellent understanding of course material, and can solve problems not directly discussed in lectures/readings/assignments.

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. In this course, writing will be graded on assignments and the group project. Specific criteria for assessing writing will be provided for these assignments.

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/j-2.html>

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/honesty/plagiarism>

Academic Accommodations:

It is the student's responsibility to request academic accommodations according to the university policies and procedures listed below. The student accommodation policy can be found at: www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf

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: www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf

Students needing an accommodation based on a Protected Ground other than Disability, should communicate this need, in writing, to the Instructor.

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.

Contact Information for Student and Faculty Representation

- SU VP Academic Phone: 220-3911 and e-mail: suwpaca@ucalgary.ca
- SU Faculty Rep. Phone: 220-3913 and e-mail: arts1@ucalgary.ca
- The students ombudsman office information can be found at: <http://www.su.ucalgary.ca/page/affordability-accessibility/su-structure/contact-info>

Re: Posting of Grades and Picking-up of Assignments

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

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 Program Information Centre (PIC) is your information resource for everything in Arts! Drop in at SS110, call us at 403-220-3580 or email us at artsads@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 program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at (403) 220-5881 or visit them in their new space on the 3rd Floor of the Taylor Family Digital Library.

- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at (403) 210-ROCK [7625] or visit them at the MacKimmie Library Block.

Contact for Students Union Representatives for the Faculty of Arts: arts1@su.ucalgary.ca, arts2@su.ucalgary.ca, arts3@su.ucalgary.ca, arts4@su.ucalgary.ca