



**GEOGRAPHY FINAL COURSE OUTLINE: WINTER 2015
GEOGRAPHY 415
(3-2)**

Hydrology

Section	Days	Times	Location
LEC01	MoWeFr	9:00am - 9:50am	MS 217
LAB01	Mo	1:00pm - 2:50pm	ES 415
LAB02	Tu	3:30pm - 5:20pm	ES 415

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

Teaching Assistant: Michelle Blade	Office: TBA
Email: mblade@ucalgary.ca	Office Hours: TBA

Teaching Assistant: Paul Momodu	Office: TBA
Email: pmomodu@ucalgary.ca	Office Hours: TBA

Please note: The appropriate emergency evacuation assembly point for classes taught in Math's Science is Social Science food court, and Earth Science 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 ecosystems and landscapes (e.g., peatlands, permafrost and mountain terrain) and to methods in ecosystems and 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:

Davie, T. (2008): *Fundamentals of Hydrology*, Routledge

Prerequisites

Geography 305 or 307 and 339, or a course in statistics, or 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: 25% (5 assignments @ 5% each)
- Quizzes: 10% (6 quizzes, top 5 will be used @ 2% each)
- Group Project: 15%
- Midterm Exams: 30% (2 @ 15% each)
- Final Exam: 20% (Scheduled by registrar)

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:

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

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.

Digital Devices:

A policy on use of digital devices during lectures will be constructed in collaboration with the students in the first week of class.

Course Schedule:

~ January 2015 ~							~ February 2015 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3	1	2 Lab 1 Due Lab 2 Intro	3 Lab 1 Due Lab 2 Intro	4	5	6	7
4	5	6	7	8	9	10	8	9 Quiz #2 Lab 2 Work	10 Lab 2 Work	11	12	13 Midterm #1	14
11	12 Lectures Start	13	14	15	16	17	15	16 Reading	17 Week	18	19	20	21
18	19 Lab 1 Intro	20 Lab 1 Intro	21	22	23	24	22	23 Lab 2 Due Lab 3 Intro	24	25	26	27	28
5	26 Quiz #1 Lab 1 Work	27 Lab 1 Work	28	29	30	31							

~ March 2015 ~							~ April 2015 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Su	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Quiz #3 Lab 3 Work	3 Lab 3 Work	4	5	6	7				1	2	3	4
8	9 Lab 3 Due Lab 4 Intro	10 Lab 3 Due Lab 4 Intro	11	12	13	14	5	6 Lab 5 Due	7 Lab 5 Due	8	9	10	11
15	16 Quiz #4 Lab 4 Work	17 Lab 4 Work	18	19	20 Midterm #2	21	12	13 Project Due & Presentations	14 Project Due & Presentations	15	16	17	18
22	23 Lab 4 Due Lab 5 Intro	24 Lab 4 Due Lab 5 Intro	25	26	27	28	19	20	21	22	23	24	25
29	30 Quiz #5 Lab 5 Work	31 Lab 5 Work	Notes:				26	27	28	29	30	Notes:	

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). 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/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>

Student Accessibility Services Accommodations

If you are a student with a documented disability who may require academic accommodation and have not registered with Student Accessibility Services, please contact their office at 220-8237. Students who have not registered with Student Accessibility Services are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.

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
- 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>

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 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,

arts2@su.ucalgary.ca,

arts3@su.ucalgary.ca,

arts4@su.ucalgary.ca