

**GEOG 415
H (3-2) AREA III**

HYDROLOGY

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Course Content

Water occupies the central position in the environment and hydrology is the science of the water cycle. It deals with the waters of the Earth, their occurrence, circulation and distribution, their chemical and physical properties, and their reaction with the environment, including their human impacts.

This first course in the science will be restricted to the study of those processes that control the occurrence and flow of water through the Earth including the subsurface and the atmosphere. A thorough grasp of these processes is vital to the management and protection of water resources as well as the physical and human environments, which are heavily water dependent.

Specific topics include

- Watershed morphology (the watershed is the hydrologist's laboratory)
- Precipitation – rain and snow
- Subsurface water and ground water
- Water loss and the water balance
- Surface flow, stream discharge and floods

Required Texts : S. Lawrence Dingman - Physical Hydrology , 2nd edition

Readings/Manual: Topics will be assigned from time to time and may require use of the Internet and the University library. Such topics are part of the course and students should expect to be tested on them.

Grading (Weighting)

Course Components: Lab (45%): Labs will be assigned by the lab instructor bi-weekly.

2 mid terms (45%): The first term will be scheduled after class consideration of suitable dates. The second term will be held two weeks prior to the end of term

Final Quiz (10%): The last class of the term.

There is No Final Registrar Office scheduled exam.

Prerequisite: [Geography 305 or 307 and a course in statistics, preferably Geog. 339 or equivalent]

Supplementary Fees: None

Grading System

The official grading scheme of the university will be used (Course Information Section in the University Calendar):

A+	4.00	Outstanding performance
A	4.00	Excellent-superior performance, showing comprehensive understanding of subject
A-	3.70	↑
B+	3.30	↑
B	3.00	Good - clearly above average performance
B-	2.70	↑
C+	2.30	↑
C	2.00	Satisfactory performance – basic understanding of the subject
C-	1.70	
D+	1.30	
D	1.00	Minimal Pass-marginal performance
F	0	Fail - - poor performance

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.

Re: Posting of Grades and Picking-up of Assignments

- Assignments will be handed back only in class or by the Professor at pre-arranged time(s).
- To receive your assignment back via mail, please include an appropriately sized self-addressed, stamped envelope with your assignment when handing in to the professor.
- Posting of grades will be at the discretion of each Professor and, if posted, they will be scrambled. 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: socialscirep@su.ucalgary.ca

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.