



COURSE OUTLINE

Hydrology

Office Hours: Mondays 10:00 to 11:20 am *by virtual meeting only*

Office Location: Virtual

Contact: asplin@uvic.ca

When emailing me please include 'GEOG 370 - your name - brief subject' in the subject line. This helps me sort through emails and makes it easier to track and respond to your message.

Profile: I am a scientific project manager for ASL Environmental Sciences Inc., a local environmental consulting company, and I am a past Post-doctoral Fellow in the Geography Department with a background in Synoptic Climatology and Atmospheric forcing of Dynamic and Thermodynamic Processes in Arctic Sea Ice. I am passionate about hydro meteorological topics, climate change, renewable energy, and field-based learning.

COURSE DESCRIPTION

This course provides an overview of hydrological processes, measurement techniques and data analysis. The movement of water in the hydrologic cycle via precipitation, interception, evapotranspiration, surface runoff, infiltration, soil moisture, groundwater flow and streamflow generation will be examined. Applied aspects and local examples will be discussed. Lecture material is complimented by laboratory assignments and a field trip option on a Friday in March (Covid-19 situation permitting).

Class Meetings: Mondays and Thursdays 11:30 am to 12:50 pm
Location: MacLaurin Building D010*

Lab Information:

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|-----|---|--------------------|---------|
| B01 | M | 2:30 pm to 4:20 pm | Virtual |
| B02 | T | 2:30 pm to 4:20 pm | Virtual |

KEY THEMES:

Hydrological systems, watersheds, the water cycle, groundwater, climate change, cold regions hydrology

*Instructors are prepared to deliver this course virtually if deemed necessary by the University of Victoria administration, or by way of public health orders.

REQUIRED TEXT

Davie, T. (2008). Fundamentals of Hydrology (2nd Edition). Routledge.
Digital copy provided on BrightSpace.

RECOMMENDED TEXT

Dingman, S.L (1994) Physical Hydrology (3rd edition). Prentice Hall.

LEARNING OUTCOMES

1. To understand the different hydrological processes involved in the hydrologic cycle.
2. To know how these hydrologic processes differ at a variety of scales (local, regional, global).
3. To learn about and practice basic measurement and data analysis techniques in hydrology.
4. To investigate how recent and anticipated changes in the hydrological cycle impact water quantity, quality and availability.

EVALUATION

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|---|-----|
| Midterm Exam (February 14 th in class) | 15% |
| Final Exam (During Exam period) | 30% |
| Lab Exam (April 7 th in class) | 55% |

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|---|---|-------|--|
| F | 0 | 0-49% | Unsatisfactory performance. Wrote final examination and completed course requirements; no supplemental. |
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Details regarding your labs and their marks are managed by the course TAs. Please discuss any issues or questions on labs with your TA first and then come to see me if you would like further clarification.

Unless otherwise stated students are expected to complete assignments independently.

POLICY ON ATTENDANCE

Students are expected to attend all lectures and labs, take notes and be punctual. A high level of student cooperation and participation, involving asking and answering questions is expected.

Students must complete all evaluation components to obtain credit. Failure to complete any evaluation component without permission from the instructor, will result in an 'N' grade, which equals a Grade Point Value of 0. The only exception to the above statement in this course is the Sooke Watershed Assignment. If you miss the above assignments an automatic grade of '0' will be assigned.

As an Instructor, I can refuse a student admission to a lecture, laboratory, learning activity or exam because of lateness, misconduct, inattention or failure to meet the responsibilities of the course. Students who neglect their academic work may be assigned a final grade of 'N' (which equals a Grade Point Value of 0) or debarred from final examinations. Please refer to the UVic academic calendar in the section on student academic conduct for further information.

ACADEMIC INTEGRITY

It is every student's responsibility to be aware of the university's policies on academic integrity, including policies on **cheating, plagiarism, unauthorized use of an editor, multiple submission**.9 (ho)-1.3 (ibw 4.022 01 -

ACCESSIBILITY

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a documented disability or health consideration that may require accommodations, please feel free to approach me and/or the Centre for Accessible Learning (CAL as soon as possible <https://www.uvic.ca/services/cal/>). The RCSD staff is available by appointment to assess specific needs, provide referrals, and arrange appropriate accommodations. The sooner you let us know your needs, the quicker we can assist you in achieving your learning goals in this course.

POSITIVITY AND SAFETY

The University of Victoria is committed to promoting, providing and protecting a positive and safe learning and working environment for all its members.

SEXUALIZED VIOLENCE PREVENTION AND RESPONSE AT UVIC

provide referrals and arrange appropriate accommodations uvic.ca/services/cal/. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

Elders' Voices - The Office of Indigenous Academic and Community Engagement (IACE) has the privilege of assembling a group of Elders from local communities to guide students, staff, faculty and administration in Indigenous ways of knowing and being.

uvic.ca/services/indigenous/students/programming/elders/index.php

University of Victoria Important Dates

Jan 26th - Last day for adding courses that begin in the second term.

Feb 13th – Last day for withdrawing from second term courses with a 50% reduction of tuition fees

Feb 28th – Last day for withdrawing from second term courses without penalty of failure.

Additional important dates can be accessed through the link below.

<http://web.uvic.ca/calendar/general/dates.html>