COURSE OUTLINE

GEOG 272: Introduction to Climatology and Hydrology

We acknowledge and respect the lək̓ʷəŋən peoples on whose traditional territory the university stands and the Songhees, Esquimalt and W̱SÁNEĆ peoples whose historical relationships with the land continue to this day.

Course materials and instructions will be made available on Brightspace (bright.uvic.ca). Please read this outline and further instruction carefully.
The laboratory component of this course is supported by Senior Laboratory Instructor Gillian Krezoski (gkrezoski@uvic.ca) and TA Osamu Kabayama (okabayama@uvic.ca). You can find all lab assignments and supporting material on Brightspace. All contact information and lab details will be provided.

Instructor: Dr. Sophie Norris
Office Hours: Friday 11.30-12.30pm (my office David Turpin Building B128)
Contact: sophienorris@uvic.ca
Lectures: T, W, F 11:30 – 12:20 (A01) Clearihue Building

LEARNING OUTCOMES

Learn about the global energy balance, and regional climate and weather patterns and some of the physics behind these processes
Learn about the global water cycle, water flows and how these influence water resources
Understand how climate and water data are collected, analyzed and used
Develop an understanding of models used in climate and water analyses
Understand the basic drivers of climate change and how it might impact society with an emphasis on water resources
Observe and apply climatology and hydrology concepts in the laboratory component of the class

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RECOMMENDED TEXT

Robert V. Rohli and Anthony J. Vega. 2017. . Jones & Bartlett Learning; 4th Edition
418p, ISBN 978-1-284-11998-5

This text is intended to provide an overview of different aspects of climatology, there will also be materials posted on Brightspace as needed to provide supplemental readings. Lectures will generally follow the outline of the text, although some topics will follow a slightly different order. The text is also a very valuable resource for the laboratory sections, especially in the latter half of the class. This syllabus and course outline lists suggested chapter readings for each section of the course.

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practice in using standard software for the analysis of climatic data and in making observations to build and support ideas about how things work. Preparing synthesis reports is a major skill needed in today's job market. Analysis and presentation of data is a necessary skill in all fields. Labs are not designed to march in step with lecture material – they are their own course component.

Please attend only the laboratory section for which you are registered. If you must miss a lab for exceptional circumstances, please arrange with your TA in advance to join another section. This however does not change the due date of your lab assignment.

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 direct questions at the instructor if you would like further clarification.Of importance, your TAs and will not be answering emails 24/7. Make sure that you address all questions cni3we m y 0d d 09 (0d 72 555 Tmc)-E.8 (tu)x.3 (t)-5.94(e)4.9(y)n1.37(i)2.8-7(o)-6. (3w)

Deadlines for lab assignments can be found in the lab syllabus. Quizzes will be conducted through Brightspace and will have automatic deadlines. Requirements for each quiz may vary and will be announced in class or indicated on the quiz.

POLICY ON ATTENDANCE

Attendance is required for labs and assumed for lecture. While we will not take attendance during lecture, a significant portion of the exams will depend on lecture materials and it will be difficult to pass the course without regular attendance.

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, and aiding others to cheat

Policy on Academic Integrity web.uvic.ca/calendar2019-09/undergrad/info/regulations/academic-integrity.html. If you have any questions or doubts, talk to me, your course instructor.
For more information, see uvic.ca/learningandteaching/cac/index.php

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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

UVic takes sexualized violence seriously, and has raised the bar for what is considered acceptable behaviour. We encourage students to learn more about how the university defines sexualized violence and its overall approach by visiting uvic.ca/svp/. If you or someone you know has been impacted by sexualized violence and needs information, advice, and/or support please contact the sexualized violence resource office in Equity and Human Rights (EQHR). Whether or not you have been directly impacted, if you want to take part in the important prevention work taking place on campus, you can also reach out:

Where: Sexualized violence resource office in EQHR; Sedgewick C119
Phone: 250.721.8021
Email: svpcoordinator@uvic.ca
Web: uvic.ca/svp

RESOURCES FOR INTERNATIONAL STUDENTS

WEEKLY CALENDAR

WEEK	DATE	Topic	Quizzes	Reading
1	Sep. 6 Sep. 8	L1- Course Intro L2-Intro to Climatology and Hydrology		Course Syllabus Chapter 1
2	Sep. 12 Sep. 13 Sep. 15	L3- Atmospheric Composition L4-Energy in the Climate System Part 1 No Lecture Self-guided reading session		Chapter 1&2
3	Sep. 19 Sep. 20 Sep. 22	L5- Energy in the Climate System Part 2 L6-Surface Radiation Budget No Lecture Self-guided reading session		Chapter 3&5
4	Sep. 26 Sep. 27 Sep 29	L7-Calculating the Solar Constant L8-Controls on the Global Climate No Lecture Self-guided reading session	Quiz 1	Practice calculation