University of Victoria

COURSE OUTLINE
OUR DIGITAL EARTH
An Online Course About Our Online World

Instructor: Dr. Chris Bone
Office Hours: Mondays 1:00pm – 2:00pm and by appointment (zoom link on Brightspace)
Contact: chrisbone@uvic.ca

Teaching Assistant: Henry Hart
Drop-in Sessions: Wednesdays and Fridays 2:00pm – 3:00pm (zoom link on Brightspace)
Contact: hhart@uvic.ca

COURSE DESCRIPTION

This course introduces students to how the world of geospatial data and technologies influences our daily lives and shapes society and the world around us. Students learn how to collect and utilize location-based data, how to develop web maps and mobile mapping apps, how to create technologies to respond to environmental disasters and humanitarian crises, and how to think spatially in order to improve our understanding of our planet. Lectures involve a lively mix of presentations and group interaction, as well as several opportunities to crowdsource data collection in order to solve geospatial problems. Lectures also provide students with training in how to use various mapping technologies in order to collect, map, analyze, and communicate data in power ways. By the end of this course, students will be empowered to create and share their maps and stories about what they have learned about our digital Earth!

KEY THEMES: location-based data, geospatial technologies, web mapping, spatial thinking and problem solving

REQUIRED TEXTS

The required text for this course is *Our Digital Earth*, which is free! Links to all readings will be provided.

LEARNING OUTCOMES

- Define appropriate modes of spatial thinking needed for addressing geographical questions.
- Collect and analyze geographic data to characterize spatial patterns of observations and spatial relationships between variables.
- Develop mobile app to facilitate the collection of geospatial data.
- Create web mapping applications to display spatial patterns and communicate information.
- Utilize technology theory to develop a geospatial tool to help with responding to an environmental disaster or humanitarian crisis.
- Understand issues of accessibility, privacy, and security with regards to geospatial data and technologies.

EVALUATION

Assignments (4)	= 60%*
Weekly Challenges	= 10%
Midterm Geospatial Challenge	= 10%
Final Geospatial Challenge	= 20%

Assignments are not equally weighted

GRADING SYSTEM

As per the Academic Calendar:

Grade	Grade point value	Grade scale	Description
A+ A A-	9 8 7	90-100% 85-89% 80-84%	**Exceptional**, **outstanding** and **excellent** performance. Normally achieved by a minority of students. These grades indicate a student who is self-initiating, exceeds expectation and has an insightful grasp of the subject matter.
B+ B B-	6 5 4	77-79% 73-76% 70-72%	**Very good**, **good** and **solid** performance. Normally achieved by the largest number of students. These grades indicate a good grasp of the subject matter or excellent grasp in one area balanced with satisfactory grasp in the other area.
C+ C	3 2	65-69% 60-64%	**Satisfactory**, or **minimally satisfactory**. These grades indicate a satisfactory performance and knowledge of the subject matter.
D	1	50-59%	**Marginal** Performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.
F	0	0-49%	**Unsatisfactory** performance. Wrote final examination and completed course requirements; no supplemental.
N	0	0-49%	Did not write examination or complete course requirements by the end of term or session; no supplemental.

GEOGRAPHY DEPARTMENT INFO
- Geography Department website: uvic.ca/socialsciences/geography/
- Undergraduate Advising: geogadvising@uvic.ca

COURSESPACES
Please visit your CourseSpaces site to access the website for Geog 104: Our Digital Earth

POLICY ON LATE ASSIGNMENTS
Late assignments will be penalized 10% per day. Assignments will not be accepted after 5 days past the due date.

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.

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

Course Experience Survey (CES)

I value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. The survey is accessed via MyPage and can be done on your laptop, tablet, or mobile device. I will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.

DISCLAIMER
The schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances.

NOTE:
A note to remind you to take care of yourself. Do your best to maintain a healthy lifestyle this semester by eating well, exercising, getting enough sleep and taking some time to relax. This will help you achieve your goals and cope with stress. All of us benefit from support during times of struggle. You are not alone.

Counselling Services - *Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students.* uvic.ca/services/counselling/

Health Services - *University Health Services (UHS) provides a full service primary health clinic for students, and coordinates healthy student and campus initiatives.* uvic.ca/services/health/

Centre for Accessible Learning - *The CAL staff are available by appointment to assess specific needs, 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

WEEKLY CALENDAR
All lectures to be held on Zoom
(see Brightspace for links)

DATE	Tech Mondays	Knowledge Thursdays	Assignments
Sept 10		Spatial Literacy	
Sept 14 & 17	Assignment 1 and Getting a Mapping Account	Spatial Patterns and Scales	
Sept 21 & 24	Assignment 1 continued	Geospatial Data	Assignment 1 Due on Sept 25
Sept 28 & Oct 1	Assignment 2	Geospatial Technologies	
Oct 5 & 8	Assignment 2 continued	Learning how to Make Apps	Assignmenet 2 Due on Oct 9
Oct 12 & 15	Thanksgiving	Midterm Geospatail Challenge	
Oct 19 & 22	Assignment 3	Spatial Analytics	
Oct 26 and 29	Assignment 3	Crowd Sourcing	
Nov 2 and 5	Assignment 3 continued	Digital Humanitarianism	Assignment 3 Due on Nov 6
Nov 9 & 12	Reading Break	Building Tools for Humanitarian Response	
Nov 16 & 19	Assignment 4	Privacy and Security on the Geoweb	
Nov 23 & 26	Assignment 4 continued	The Future of Our Digital Earth	
Nov 30 & Dec 3	Drop-in Help Session	Course Wrap-up	Assignment 4 Due on Dec 4

Assignment Schedule
Assignment 1: Spatial Thinking and Mapping (10%)
Due Friday, September 25th at 11:59pm

Assignment 2: Making Mobile Apps (15%)
Due Friday, October 9th at 11:59pm

Assignment 3: Story Maps (20%)
Due Friday, November 6th at 11:59pm

Assignment 4: Developing Tools for Emergency Response (15%)
Due Friday, December 4th at 11:59pm