COURSE OUTLINE
Advanced Topics in Remote Sensing
Lecture: Elliott Building 161 2:30pm-4:20pm Tuesdays
Lab: David Turpin Building A253 2:30pm-5:20pm Thursdays

Office Hours: Tuesdays 13:00-14:30 or by appointment
Office Location: DTB B122
Contact: randy@uvic.ca

COURSE DESCRIPTION

This course is designed to be a capstone, to provide you with the opportunity to integrate your strong background in Geography or other Earth/Biological Sciences with Remote Sensing. The focus of the course will be to work through a project that can, at least in part, be addressed by remote sensing technology. You will develop a research project that suits your interests, within the limits of available data and reasonable scope. The progress of the project will be monitored through a series of deliverables (see below). You will define a research question, explor

REQUIRED TEXT(S)

None. For project and seminar-based work you will be expected to make additional use of remote sensing texts, journal articles, other material in the university libraries, web-based information to support your work. Readings will also be provided by your instructor.

It is always useful to have a desk-reference on remote sensing handy, and several broad and specific remote sensing texts are available through the library, for example: https://go.exlibris.link/QBsBNjBR

Recommended journals include: *Canadian Journal of Remote Sensing*, *Remote Sensing of the Environment*, *Journal of Geophysical Research*, Frontiers in Remote Sensing, and *IEEE Transactions on Geoscience and Remote Sensing*.

EVALUATION

Project Definition (Oral & Written) – One per group	5%
Project Data and Methodology Overview – One per group	10%
Progress Update (Oral & Written) – One per group	10%
Project Final Presentation (Oral) – One per group	10%
Project Final Report (Written) – One per group	35%
Quiz #1 on Topic #1	10%
Quiz #2 on Topic #2	10%
Lab Assignment: Earth Engine	10%

There is no final exam in this course.

GRADING SYSTEM
As per the Academic Calendar:

Grade	Grade point value	Grade scale	Description
A+	9	90-	
A	8		
A-	7		

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

WEEKLY CALENDAR

WEEK	DATE	
1	T 11 Jan	Course Introduction
2	T 18 Jan	Topic 1: Next-generation Digital Earth; Project Scoping
3	T 25 Jan	Topic 1 (cont.); Project Scoping
4	T 01 Feb	Project Definition Presentations – One per Group; Project Work
5	T 08 Feb	Quiz #1 on Topic 1; Project Work
6	T 15 Feb	Project Work
7	T 22 Feb	READING BREAK, NO CLASS
8	T 01 Mar	Project Data and Methodology Overview Presentations – One per Group
9	T 08 Mar	Topic 2: Climate Science; Project Work
10	T 15 Mar	Topic 2 (cont.); Project Progress Update Presentations – One per group
11	T 22 Mar	Quiz #2; Project Work
12	T 29 Mar	Project Work
13	T 05 Apr	Project Final Presentations – One per group

DISCLAIMER

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