
COURSE OUTLINE
ADVANCED SPATIAL ANALYSIS AND GEOSTATISTICS

Instructor: Dr. Chris Bone

Office Hours: Fridays 10:00am – 12:00pm and by appointment, DTB A237

Contact: chrisbone@uvic.ca

Lecture: Thursdays, 2:30pm – 4:20pm, MAC D010

Teaching Assistant: Jason Kelley

Office Hour: Mondays 11:00am – 12:00pm Room DTB B206

Contact: jkelley@uvic.ca

*

COURSE DESCRIPTION

This course introduces students to a variety of spatial analysis techniques that can be used for understanding geographic phenomena. Topics covered in this course include descriptive spatial analysis, spatial sampling, inferential spatial analysis, and spatial interpolation. Lectures focus on the geographic theory and equations behind each method, while labs provide an opportunity for students to implement a variety of techniques to address questions that are geographic in nature. All labs and exercises are completed using the scientific programming language *R*

EVALUATION

Assignment 1: Designing a Spatial Sampling Design

10%

Assignment 2: Performing Spatial Statistics

15%

Assignment 3: Collecting and Mapping Event

ACADEMIC INTEGRITY

DISCLAIMER

The above 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*

We acknowledge and respect the I k n peoples on whose traditional territory the university stands and the Songhees, Esquimalt, and W