



CAMOSUN COLLEGE
School of Arts & Science
Department of Social Sciences

GEOG-216-D01
Quantitative Methods
Winter 2021

COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/geog.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	Nesha Wright
(b) Office hours	Wednesday 2-3 Please contact me if you would like to meet outside of this timeframe.
(c) Location	Online
(e) E-mail	Wrightn@camosun.bc.ca
(f) Website	See D2L

2. Intended Learning Outcomes

Upon completion of this course the student will be able to:

1. Demonstrate a working knowledge of elementary statistics and elementary statistical models as applied to spatial processes.
2. Demonstrate an ability to handle spatial data through the application of a statistical computer software package.

3. Required Materials

(a) Texts: McGrew, J.C and others (2014). *An Introduction to Statistical Problem Solving in Geography*, Waveland.

4. Course Content and Schedule

There will be 2 hours of lecture/slides/exercises per week. Depending on the topic there may be problem solving sessions to help explain topics. Please have a scientific calculator (no cellphones) available to you.

Lecture notes, PowerPoints and helpful videos will be made available through D2L. Please check D2L daily to ensure that you are not missing an important announcement.

Schedule: Updated January 4, 2021 (Subject to change at the discretion of the instructor):

Week of	Lecture (Tuesday)	Reading	Lab (Thursday)
Jan 11	Course Intro		Lab 0. Lab Intro
Jan 18	Intro to Geographic Data & Statistics	<i>Ch 1,2</i>	Lab 1: Into to R Statistical Environment
Jan 25	Descriptive Statistics	<i>Ch 3</i>	Lab 2: Descriptive Statistics
Feb 1	Probability	<i>Ch 5,6</i>	Lab 3: Probability
Feb 8	The Normal Curve	<i>Ch 5,6</i>	Lab 4: The Normal Curve
Feb 15	No Class: Reading Break		No Class: Reading Break
Feb 22	Sampling	<i>Ch 7,8</i>	Midterm
Mar 1	Inferential Statistics	<i>Ch 9</i>	Lab 5: Inferential Statistics Part 1
Mar 15	Parametric Tests	<i>Ch 10,11</i>	Lab 6: Inferential Statistics Part 2
Mar 22	Non-Parametric Tests	<i>Ch 12</i>	Lab 7: Chi Square Test
Mar 29	Correlation	<i>Ch 16</i>	Lab 8: Correlation
Apr 05	Regression	<i>Ch 17</i>	Lab 9: Regression
Apr 12	Spatial Stats	<i>Ch 13, 15</i>	Lab 10: Spatial Stats
Exam Week - optional	Review - will release more info closer to time.		Lab Review

Labs will be held online and due via email submission **before** the next lab unless otherwise stated. There will be a penalty of 10% per day for late submissions. Students are encouraged to work together however all students must submit a separate report in their own words. Labs must be clearly laid out and easy to read through. Any students involved in copying will get a mark of zero for that assignment.

Exams: There are 2 exams which will cover the theoretical aspects of the course and applied problems (as presented in labs).

Illness: If you miss a lab you must provide a doctor's note or other documentation that supports your story. Otherwise, a mark of zero will be given. You must contact me within 24 hours of missing a lab with an explanation.

5. Basis of Student Assessment (Weighting)

(a) Labs (50%) Labs will be weekly and are to be completed primarily in the class allocated time. Students will have approximately a week to finish and submit labs should they require the time to do so. Lab due dates are mentioned previously and all expectations regarding will be gone over on the first lab.

(b) Midterm exam (25%) The midterm exam will include all material up to the week of the midterm including material, concepts and definitions that are covered in the labs.

(a) Final exam (25%)

6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

Resources will be posted online as they become relevant to the topic.

8. College Supports, Services and Policies



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website

at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence, Student Ancillary Fees, Academic Integrity, Grade Review & Appeals, Student Misconduct and Academic Accommodations for Students with Disabilities and Student Penalties and Fines.

A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://camosun.ca/about/policies/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.